2021 Annual Groundwater Monitoring and Corrective Action Report

Plant Yates – Ash Pond 2
Newnan, Georgia

January 31, 2022

2021 Annual Groundwater Monitoring and Corrective Action Report

Plant Yates – Ash Pond 2
Newman, Georgia

January 31, 2022

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Summary

This summary of the 2021 Annual Monitoring and Corrective Action Report provides the status of groundwater monitoring and corrective action program in 2021 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 6[1] 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 2021 reporting period, Arcadis conducted three groundwater sampling events in February, March, and August/September. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR rule, groundwater results for March and August/September 2021 data were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III[2] parameters in wells provided in the table below. There were no statistically significant levels (SSLs) detected for Appendix IV[3] parameters. During the 2021 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.

Appendix III Parameter	March 2021	August 2021
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-28I, YGWC-28S	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-28I, YGWC-28S
Sulfate	YGWC-27S	--
TDS	--	YGWC-26I

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program through 2021, 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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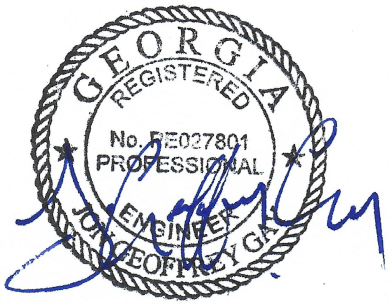
Acronyms and Abbreviations

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 2021 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 or engineer with Arcadis, U.S., Inc.

Arcadis U.S., Inc.



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1 Introduction

This 2021 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, March, and August/September 2021. 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 of both the annual monitoring for Appendix IV constituents conducted in February 2021 and the semiannual monitoring events conducted in March and August 2021 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 and the 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 2018).

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 2020). 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 compliance 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 2021 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 period (February, March, and August 2021). During the February 2021 event, groundwater samples were collected and analyzed for 40 CFR 257 Appendix IV constituents to meet the requirement of 40 CFR § 257.95(b). During the March and August 2021 semiannual sampling events, groundwater samples were collected for both 40 CFR 257 Appendix III and the Appendix IV constituents detected during the February 2021 event. Field sampling logs are provided in **Appendix A**.

2.1 Monitoring Well Installation and Maintenance

There were no changes to the groundwater monitoring system in 2021; the network remained the same as in the 2020 reporting year. 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.

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 March and August 2021, monitoring wells were inspected, necessary corrective actions were identified and subsequently completed where necessary, as documented in Appendix A. There were no well maintenance issues during this period that required corrective actions. This documentation will serve as the required five year well inspection and was performed under the direction of a professional geologist or engineer registered in the State of Georgia.

2.2 Assessment Monitoring

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 IV parameters in February 2021 pursuant to 40 CFR § 257.95(b). In accordance with 40 CFR § 257.95(d), semiannual assessment monitoring events occurred in March and August 2021, in which samples were collected and analyzed for Appendix III parameters and Appendix IV parameters detected at concentrations above the laboratory method detection limit (MDL) from the February 2021 event. A summary of groundwater sampling events completed in 2021 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 **Table 3**. Saprolite and transition zone groundwater elevation data were used to prepare potentiometric surface elevation contour maps from February, March, and August gauging events (**Figures 4, 5,** and **6**, respectively).

Saprolite and transition zone groundwater elevations ranged from 821.75 feet (YGWA-2I) to 685.84 feet (YGWC-27I). During the August 2021 field effort, Tropical Storm Fred created adverse site conditions such that YGWA-

14S, YGWA-30I, PZ-14I, and PZ-31S were inaccessible when the other wells were gauged. 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, March, and August 2021 are presented in **Table 4**. The calculated average groundwater linear flow velocity ranged from approximately 26 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.

A smarTroll™ or 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 2021 sampling event, the AP-2 wells were sampled and analyzed for Appendix IV parameters according to 40 CFR § 257.95(b). Groundwater samples collected during the semiannual events in March and August 2021 were analyzed for Appendix III parameters as well as those Appendix IV parameters detected at concentrations above the laboratory MDL during the February 2021 event in accordance with 40 CFR § 257.95(d). **Table 5** provides a summary of the constituents monitored during the events. Mercury and thallium were not detected at concentrations above the laboratory MDL during the February 2021 scan event and, therefore, were not analyzed during the March and August 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 2021 sampling events are 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 March and August 2021 data validation reports included in **Appendix B** summarize the validation actions and applicable interpretation.

The purpose of the data quality evaluation was to determine the reliability of the chemical analyses and the accuracy and precision of information acquired from the laboratory. Data quality was assessed through the review and evaluation of field sampling, 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 March and August 2021 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.

USEPA revised the federal CCR Rule on July 30, 2018, providing GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR 257.95(h)(2). Presently, those updated GWPS have not yet been incorporated into the current GAEPD Rules for Solid Waste Management 391-3-4-.10(6)(a); therefore, background concentrations are considered when determining the GWPS for constituents for which an MCL has not been established (or where background is higher than the MCL). Under the existing GAEPD rules, the GWPS is:

- The MCL; or
- The background concentration when an MCL is not established or when the background concentration is higher than the MCL.

Following the above federal and state rules, 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 March and August 2021 sampling events along with the GWPS established under federal and state rules.

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV parameters in each downgradient well. Those confidence intervals were compared to the GWPS established under 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 March and August 2021 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 March and August 2021 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 March and August 2021 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 SSIs 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 March and August 2021 semiannual sampling events. The next assessment monitoring event is scheduled for February 2022. The February semiannual monitoring event will be a combined event to meet the requirements of GAEPD Rule 391-3-4-.10(6) and 40 CFR §§ 257.95(b) and (d)(1) and will include sampling and analysis of all Appendix III and IV constituents.

7 References

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Tables

Table 1
Monitoring Network Well Summary
2021 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
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
Downgradient 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
Non-Network 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
2021 Groundwater Sampling Plan
2021 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2

Well ID	Hydraulic Location	Assessment Monitoring [1]	2021 Semiannual Sampling [2]	2021 Semiannual Sampling [2]
		February 8 - 12, 2021	March 1 - 4, 2021	August 19, 20, & 27, 2021
YGWA-1I	Upgradient	X	X	X
YGWA-1D	Upgradient	X	X	X
YGWA-2I	Upgradient	X	X	X
YGWA-3I	Upgradient	X	X	X
YGWA-3D	Upgradient	X	X	X
YGWA-14S	Downgradient	X	X	X
YGWA-30I	Downgradient	X	X	X
YGWC-26S	Downgradient	X	X	X
YGWC-26I	Downgradient	X	X	X
YGWC-27S	Downgradient	X	X	X
YGWC-27I	Downgradient	X	X	X
YGWC-28S	Downgradient	X	X	X
YGWC-28I	Downgradient	X	X	X
YGWC-29I	Downgradient	X	X	X

Notes:

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

Appendix III = Consituents for Detection Monitoring - 40 CFR Part 257 Appendix III.

Appendix IV = Consituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV.

Table 3
Summary of Groundwater Elevations - 2021
2021 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)
February 2021				
YGWA-1I	2/8/2021	836.60	37.84	798.76
YGWA-1D	2/8/2021	837.25	48.50	788.75
YGWA-2I	2/8/2021	866.25	44.96	821.29
YGWA-3I	2/8/2021	796.55	52.34	744.21
YGWA-3D	2/8/2021	796.78	29.44	767.34
YGWA-14S	2/8/2021	748.76	17.56	731.20
YGWA-30I	2/8/2021	762.58	59.48	703.10
YGWC-26S	2/8/2021	716.28	25.43	690.85
YGWC-26I	2/8/2021	715.91	26.05	689.86
YGWC-27S	2/8/2021	716.52	29.68	686.84
YGWC-27I	2/8/2021	716.19	29.58	686.61
YGWC-28S	2/8/2021	717.95	27.68	690.27
YGWC-28I	2/8/2021	717.93	29.50	688.43
YGWC-29I	2/8/2021	717.39	27.80	689.59
PZ-01S	2/8/2021	836.84	32.86	803.98
PZ-03S	2/8/2021	796.39	35.71	760.68
PZ-13S	2/8/2021	807.79	35.94	771.85
PZ-13I	2/8/2021	807.62	39.33	768.29
PZ-14I	2/8/2021	749.06	18.83	730.23
PZ-25S	2/8/2021	766.60	35.64	730.96
PZ-25I	2/8/2021	766.38	36.93	729.45
PZ-31S	2/8/2021	738.62	16.18	722.44
March 2021				
YGWA-1D	3/1/2021	837.25	47.88	789.37
YGWA-2I	3/1/2021	866.25	44.50	821.75
YGWA-3I	3/1/2021	796.55	52.36	744.19
YGWA-3D	3/1/2021	796.78	29.30	767.48
YGWA-14S	3/1/2021	748.76	16.70	732.06
YGWA-30I	3/1/2021	762.58	43.88	718.70
YGWC-26S	3/1/2021	716.28	24.86	691.42
YGWC-26I	3/1/2021	715.91	25.99	689.92
YGWC-27S	3/1/2021	716.52	30.35	686.17
YGWC-27I	3/1/2021	716.19	30.35	685.84
YGWC-28S	3/1/2021	717.95	28.06	689.89
YGWC-28I	3/1/2021	717.93	29.79	688.14
YGWC-29I	3/1/2021	717.39	28.21	689.18
PZ-01S	3/1/2021	836.84	32.42	804.42
PZ-03S	3/1/2021	796.39	35.72	760.67
PZ-13S	3/1/2021	807.79	35.64	772.15
PZ-13I	3/1/2021	807.62	38.94	768.68
PZ-14I	3/1/2021	749.06	18.10	730.96
PZ-25S	3/1/2021	766.60	35.39	731.21
PZ-25I	3/1/2021	766.38	36.76	729.62
PZ-31S	3/1/2021	738.62	16.49	722.13

Table 3
Summary of Groundwater Elevations - 2021
2021 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)
August 2021				
YGWA-1I	8/17/2021	836.60	37.10	799.5
YGWA-1D	8/17/2021	837.25	48.61	788.64
YGWA-2I	8/17/2021	866.25	44.25	822
YGWA-3I	8/17/2021	796.55	53.16	743.39
YGWA-3D	8/17/2021	796.78	29.72	767.06
YGWA-14S[2]	8/19/2021	748.76	19.94	728.82
YGWA-30I[2]	8/19/2021	762.58	44.35	718.23
YGWC-26S	8/16/2021	716.28	27.20	689.08
YGWC-26I	8/16/2021	715.91	27.68	688.23
YGWC-27S[1]	8/16/2021	716.52	--	--
YGWC-27I	8/16/2021	716.19	31.86	684.33
YGWC-28S	8/16/2021	717.95	29.82	688.13
YGWC-28I	8/16/2021	717.93	31.45	686.48
YGWC-29I	8/17/2021	717.39	29.14	688.25
PZ-01S	8/17/2021	836.84	32.19	804.65
PZ-03S	8/17/2021	796.39	35.43	760.96
PZ-13S	8/17/2021	807.79	35.90	771.89
PZ-13I	8/17/2021	807.62	39.36	768.26
PZ-14I[3]	8/25/2021	749.06	50.86	698.20
PZ-25S	8/17/2021	766.60	41.00	725.60
PZ-25I	8/17/2021	766.38	43.34	723.04
PZ-31S[3]	8/25/2021	738.62	34.72	703.90

Notes:

1. Groundwater elevation not measured, due to pump blocking lower than normal water column in well resulting from Dyer Road dewatering activities.

2. Wells inaccessible during gauging event due to tropical storm. Groundwater elevations collected on August 19, 2021 during sampling efforts.

3. Wells inaccessible during gauging event due to tropical storm. Groundwater elevations collected on August 25, 2021 during well inspections.

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 - 2021
2021 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2

Equation

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

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:			
PZ01S to YGWA-14S	1,200	feet	
PZ-13S to YGWC-28	2,665	feet	
YGWA-14 to PZ-31S	570	feet	
Groundwater Elevation			**Date Collected:**
PZ-01S	803.98	feet	February 2021
YGWA-14S	731.20		
PZ-13S	771.85		
YGWC-28	690.27		
YGWA-14	731.20		
PZ-31S	722.44		
PZ-01S	804.42	feet	March 2021
YGWA-14S	732.06		
PZ-13S	772.15		
YGWC-28	689.89		
YGWA-14	732.06		
PZ-31S	722.13		
PZ-01S	804.65	feet	August 2021
YGWA-14S	728.82		
PZ-13S	771.89		
YGWC-28	688.13		
YGWA-14[3]	728.82		
PZ-31S[3]	703.90		
			Hydraulic gradient from:
i_1 = 0.028		unitless	PZ-01S to YGWA-14S (Feb. 2021)
i_2 = 0.056		unitless	PZ-13S to YGWC-28 (Feb. 2021)
i_3 = 0.017		unitless	YGWA-14 to PZ-31S (Feb. 2021)
i_{avg} = 0.033		unitless	Average
i_1 = 0.028		unitless	PZ-01S to YGWA-14S (Mar. 2021)
i_2 = 0.056		unitless	PZ-13S to YGWC-28 (Mar. 2021)
i_3 = 0.019		unitless	YGWA-14 to PZ-31S (Mar. 2021)
i_{avg} = 0.034		unitless	Average
i_1 = 0.029		unitless	PZ-01S to YGWA-14S (Aug. 2021)
i_2 = 0.057		unitless	PZ-13S to YGWC-28 (Aug. 2021)
i_{avg} = 0.043		unitless	Average
n_e = 0.20		unitless	See note 2

Table 4
Groundwater Flow Velocity Calculations - 2021
2021 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2

Minimum Linear Flow Velocity

February 2021	*March 2021*	*August 2021*
$V_{min} = \frac{(0.003)(0.033)}{0.20}$	$V_{min} = \frac{(0.003)(0.034)}{0.20}$	$V_{min} = \frac{(0.003)(0.043)}{0.20}$
V_{min} = 0.0005 ft/day, or 0.2 ft/year	V_{min} = 0.0005 ft/day, or 0.2 ft/year	V_{min} = 0.0006 ft/day, or 0.2 ft/year

Maximum Linear Flow Velocity

February 2021	*March 2021*	*August 2021*
$V_{max} = \frac{(8.57)(0.033)}{0.20}$	$V_{max} = \frac{(8.57)(0.034)}{0.20}$	$V_{max} = \frac{(8.57)(0.043)}{0.20}$
V_{max} = 1.4 ft/day, or 511 ft/year	V_{max} = 1.5 ft/day, or 548 ft/year	V_{max} = 1.9 ft/day, or 694 ft/year

Average Linear Flow Velocity

February 2021	*March 2021*	*August 2021*
$V_{avg} = \frac{(0.43)(0.033)}{0.2}$	$V_{avg} = \frac{(0.43)(0.034)}{0.2}$	$V_{avg} = \frac{(0.43)(0.043)}{0.2}$
V_{avg} = 0.07 ft/day, or 26 ft/year	V_{avg} = 0.07 ft/day, or 26 ft/year	V_{avg} = 0.09 ft/day, or 33 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)
3. Groundwater elevations altered by dewatering activities and not used in gradient calcuations

Table 5
Summary of Groundwater Monitoring Parameters
2021 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:
Italicized groundwater monitoring parameters were not detected during the annual assessment event (February 2021) and therefore not included in March and August semiannual parameter lists.

CFR = Code of Federal Regulations

Table 6
Groundwater Analytical Data - February, March, and August 2021
2021 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2

	Analyte	YGWA-1I	YGWA-1I	YGWA-1I	YGWA-1D	YGWA-1D	YGWA-1D	YGWA-2I	YGWA-2I	YGWA-2I	YGWA-3I	YGWA-3I	YGWA-3I	YGWA-3D
		2/12/2021	3/3/2021	8/19/2021	2/12/2021	3/3/2021	8/19/2021	2/10/2021	3/3/2021	8/27/2021	2/10/2021	3/3/2021	8/27/2021	2/10/2021
Appendix III	pH	6.21	5.38	6.38	7.14	7.20	6.32	7.29	7.92	7.14	7.58	8.23	7.39	7.81
	Boron	--	< 0.0052	< 0.0086	--	< 0.0052	< 0.0086	--	< 0.0052	< 0.0086	--	< 0.0052	< 0.0086	--
	Calcium	--	1.8	2.0	--	14.1	14.2	--	25.6	22.6	--	20.6	24.7	--
	Chloride	--	1.2	1.3	--	0.96 J	1.1	--	0.86 J	0.99 J	--	0.99 J	1.1	--
	Fluoride	< 0.050	< 0.050	< 0.050	0.068 J	0.078 J	0.074 J	0.094 J	0.085 J	0.12	< 0.050	0.10	0.12	0.43
	Sulfate	--	4.4	4.9	--	9.0	8.9	--	10.6	16.7	--	9.6	18.2	--
	Total Dissolved Solids	--	39.0	44.0	--	99.0	105	--	138	150	--	111	155	--
Appendix IV	Antimony	< 0.00028	< 0.00028	< 0.00078	< 0.00028	< 0.00028	< 0.00078	0.0013 J	< 0.00028	< 0.00078	< 0.00028	< 0.00028	< 0.00078	< 0.00028
	Arsenic	< 0.00078	< 0.00078	< 0.0011	< 0.00078	< 0.00078	< 0.0011	< 0.00078	0.00098 J	< 0.0011	0.00078 J	< 0.00078	< 0.0011	0.00094 J
	Barium	0.0090 J	0.0094	0.0079	0.0057 J	0.0068	0.0065	0.0032 J	0.0041 J	0.0030 J	0.0029 J	0.0031 J	0.0039 J	0.0059 J
	Beryllium	< 0.000046	< 0.000046	< 0.000054	< 0.000046	< 0.000046	< 0.000054	< 0.000046	< 0.000046	< 0.000054	< 0.000046	< 0.000046	< 0.000054	< 0.000046
	Cadmium	< 0.00012	< 0.00012	< 0.00011	< 0.00012	< 0.00012	< 0.00011	< 0.00012	< 0.00012	< 0.00011	< 0.00012	< 0.00012	< 0.00011	< 0.00012
	Chromium	< 0.00055	< 0.00055	< 0.0011	< 0.00055	< 0.00055	< 0.0011	< 0.00055	< 0.00055	< 0.0011	< 0.00055	< 0.00055	< 0.0011	< 0.00055
	Cobalt	0.0028 J	0.0030 J	0.0017 J	0.00086 J	< 0.00038	0.00055 J	< 0.00038	< 0.00038	< 0.00039	< 0.00038	< 0.00038	< 0.00039	< 0.00038
	Lead	0.00038 J	< 0.000036	< 0.00089	0.000044 J	0.000056 J	< 0.00089	0.00015 J	< 0.000036	< 0.00089	< 0.000036	< 0.000036	< 0.00089	< 0.000036
	Lithium	0.0025 J	0.0025 J	0.0023 J	0.010 J	0.012 J	0.013 J	0.0039 J	0.0016 J	0.0058 J	0.015 J	0.017 J	0.026 J	0.023 J
	Mercury	< 0.000078	--	--	< 0.000078	--	--	< 0.000078	--	--	< 0.000078	--	--	< 0.000078
	Molybdenum	0.0056 J	0.0049 J	0.0050 J	0.0080 J	0.0088 J	0.0083 J	0.0041 J	0.0074 J	0.0048 J	0.0038 J	0.0036 J	0.0099 J	0.014
	Combined Radium - 226/228	0.458 U	0.105 U	0.0732 U	0.366 U	0.492 U	1.17 U	1.04 U	0.459 U	0.409 U	2.46	2.03	1.34	3.65
	Selenium	< 0.0016	< 0.0016	< 0.0014	< 0.0016	< 0.0016	< 0.0014	< 0.0016	< 0.0016	< 0.0014	< 0.0016	< 0.0016	< 0.0014	< 0.0016
	Thallium	< 0.00014	--	--	< 0.00014	--	--	< 0.00014	--	--	< 0.00014	--	--	< 0.00014

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 = Consituents for Detection Monitoring - 40 CFR Part 257 Appendix III.

Appendix IV = Consituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV.

-- Not analyzed for this constituent.

< 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 qualifited by the laboratory as estimated.

Table 6
Groundwater Analytical Data - February, March, and August 2021
2021 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2

	Analyte	YGWA-3D	YGWA-3D	YGWA-14S	YGWA-14S	YGWA-14S	YGWA-30I	YGWA-30I	YGWA-30I	YGWC-26S	YGWC-26S	YGWC-26S	YGWC-26I	YGWC-26I
		3/3/2021	8/19/2021	2/10/2021	3/2/2021	8/19/2021	2/11/2021	3/1/2021	8/19/2021	2/10/2021	3/2/2021	8/19/2021	2/10/2021	3/3/2021
Appendix III	pH	8.39	5.34	5.35	5.49	7.32	5.73	5.78	5.43	5.18	5.38	5.12	5.96	5.93
	Boron	< 0.0052	< 0.0086	--	0.017 J	0.018 J	--	< 0.0052	< 0.0086	--	0.57	0.71	--	0.69
	Calcium	29.8	28.1	--	1.2	1.2	--	1.2	1.2	--	12.9	11.5	--	16.1
	Chloride	1.1	1.1	--	4.9	5.0	--	1.6	1.6	--	13.2	13.5	--	16.6
	Fluoride	0.44	0.47	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.050 J	0.050 J
	Sulfate	7.0	7.5	--	6.0	6.7	--	0.88 J	1.0	--	92.7	86.5	--	89.3
	Total Dissolved Solids	137	144	--	67.0	54.0	--	23.0	50.0	--	154	176	--	205
Appendix IV	Antimony	< 0.00028	< 0.00078	< 0.00028	< 0.00028	< 0.00078	< 0.00028	< 0.00028	< 0.00078	< 0.00028	< 0.00028	< 0.00078	< 0.00028	< 0.00028
	Arsenic	< 0.00078	< 0.0011	< 0.00078	< 0.00078	< 0.0011	< 0.00078	< 0.00078	< 0.0011	< 0.00078	< 0.00078	< 0.0011	< 0.00078	< 0.00078
	Barium	0.0064	0.0052	0.0078 J	0.0076	0.0077	0.0077 J	0.0070	0.0071	0.031	0.031	0.023	0.060	0.064
	Beryllium	< 0.000046	< 0.000054	0.00019 J	0.00018 J	0.00022 J	0.000047 J	< 0.000046	< 0.000054	0.00013 J	0.00016 J	0.000082 J	< 0.000046	< 0.000046
	Cadmium	< 0.00012	< 0.00011	< 0.00012	< 0.00012	< 0.00011	< 0.00012	< 0.00012	< 0.00011	< 0.00012	< 0.00012	< 0.00011	< 0.00012	< 0.00012
	Chromium	< 0.00055	< 0.0011	< 0.00055	< 0.00055	< 0.0011	< 0.00055	< 0.00055	< 0.0011	0.00091 J	0.0010 J	0.0012 J	0.00065 J	< 0.00055
	Cobalt	< 0.00038	< 0.00039	< 0.00038	< 0.00038	< 0.00039	0.0078	0.0061	0.0052	0.0017 J	0.0021 J	0.0017 J	< 0.00038	< 0.00038
	Lead	< 0.000036	< 0.00089	0.000048 J	< 0.000036	< 0.00089	0.000046 J	< 0.000036	< 0.00089	0.000050 J	0.000056 J	< 0.00089	0.000051 J	< 0.000036
	Lithium	0.024 J	0.023 J	< 0.00081	< 0.00081	< 0.00073	0.0012 J	0.0011 J	0.0012 J	< 0.00081	< 0.00081	< 0.00073	0.0067 J	0.0077 J
	Mercury	--	--	< 0.000078	--	--	< 0.000078	--	--	< 0.000078	--	--	< 0.000078	--
	Molybdenum	0.013	0.013	< 0.00069	< 0.00069	< 0.00074	< 0.00069	< 0.00069	< 0.00074	< 0.00069	< 0.00069	< 0.00074	< 0.00069	< 0.00069
	Combined Radium - 226/228	3.58	3.53	0.353 U	0.710 U	0.786 U	0.678 U	0.412 U	0.234 U	0.410 U	0.394 U	0.513 U	0.513 U	0.419 U
	Selenium	< 0.0016	< 0.0014	< 0.0016	< 0.0016	< 0.0014	< 0.0016	< 0.0016	< 0.0014	< 0.0016	< 0.0016	< 0.0014	0.0026 J	0.0034 J
	Thallium	--	--	< 0.00014	--	--	< 0.00014	--	--	< 0.00014	--	--	< 0.00014	--

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 = Consituents for Detection Monitoring - 40 CFR Part 257 Appendix III.

Appendix IV = Consituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV.

-- Not analyzed for this constituent.

< 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 qualifited by the laboratory as estimated.

Table 6
Groundwater Analytical Data - February, March, and August 2021
2021 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2

	Analyte	YGWC-26I	YGWC-27S	YGWC-27S	YGWC-27S	YGWC-27I	YGWC-27I	YGWC-27I	YGWC-28S	YGWC-28S	YGWC-28S	YGWC-28I	YGWC-28I	YGWC-28I
		8/20/2021	2/10/2021	3/3/2021	8/20/2021	2/10/2021	3/3/2021	8/20/2021	2/12/2021	3/3/2021	8/20/2021	2/11/2021	3/3/2021	8/20/2021
Appendix III	pH	5.78	6.21	6.35	6.18	6.29	6.43	6.17	6.60	6.61	6.38	6.57	6.51	6.23
	Boron	0.72	--	1.2	1.2	--	2.0	2.5	--	2.3	2.5	--	1.8	2.3
	Calcium	17.2	--	30.2	29.9	--	25.7	25.7	--	28.4	27.8	--	30.9	33.1
	Chloride	14.4	--	4.0	15.2	--	13.0	13.7	--	18.0	18.1	--	14.6	15.2
	Fluoride	< 0.050	0.084 J	< 0.050	0.11	0.055 J	0.058 J	0.091 J	0.069 J	0.13	0.20	0.066 J	0.072 J	0.11
	Sulfate	84.0	--	451	18.0	--	2.6	2.9	--	4.9	5.4	--	8.6	8.9
	Total Dissolved Solids	224	--	178	169	--	173	196	--	217	192	--	184	194
Appendix IV	Antimony	< 0.00078	< 0.00028	< 0.00028	< 0.00078	< 0.00028	< 0.00028	< 0.00078	< 0.00028	< 0.00028	< 0.00078	< 0.00028	< 0.00028B	< 0.00078
	Arsenic	< 0.0011	< 0.00078	< 0.00078	< 0.0011	< 0.00078	< 0.00078	< 0.0011	< 0.00078	< 0.00078	< 0.0011	< 0.00078	< 0.00078	< 0.0011
	Barium	0.063	0.088	0.075	0.082	0.080	0.080	0.083	0.057	0.25	0.24	0.078	0.077	0.079
	Beryllium	< 0.000054	0.000066 J	< 0.000046	0.00011 J	0.00014 J	0.00013 J	0.000086 J	< 0.000046	< 0.000046	< 0.000054	< 0.000046	< 0.000046	< 0.000054
	Cadmium	< 0.00011	< 0.00012	< 0.00012	< 0.00011	< 0.00012	< 0.00012	< 0.00011	0.00048 J	< 0.00012	< 0.00011	0.00052 J	0.00014 J	0.00027 J
	Chromium	< 0.0011	0.0027 J	0.00058 J	0.0041 J	< 0.00055	< 0.00055	0.012	< 0.00055	< 0.00055	< 0.0011	< 0.00055	< 0.00055	< 0.0011
	Cobalt	< 0.00039	0.0025 J	0.0017 J	0.0027 J	0.0048 J	0.0042 J	0.0034 J	< 0.00038	0.0010 J	0.00097 J	< 0.00038	< 0.00038	< 0.00039
	Lead	< 0.00089	0.00072 J	< 0.000036	0.00096 J	< 0.000036	< 0.000036	< 0.00089	0.000052 J	< 0.000036	< 0.00089	< 0.000036	< 0.000036	< 0.00089
	Lithium	0.0079 J	0.00081 J	< 0.00081	0.0013 J	0.0067 J	0.0066 J	0.0066 J	0.0053 J	< 0.00081	< 0.00073	0.0070 J	0.0063 J	0.0072 J
	Mercury	--	< 0.000078	--	--	< 0.000078	--	--	< 0.000078	--	--	< 0.000078	--	--
	Molybdenum	< 0.00074	< 0.00069	< 0.00069	< 0.00074	0.0016 J	0.0017 J	0.0042 J	< 0.00069	0.00083 J	< 0.00074	0.0012 J	0.0011 J	0.0010 J
	Combined Radium - 226/228	0.596 U	0.663 U	0.327 U	0.542 U	2.47	1.39	1.36	0.419 U	1.04	1.34	1.07	0.261 U	0.656 U
	Selenium	0.0026 J	< 0.0016	< 0.0016	< 0.0014	< 0.0016	< 0.0016	< 0.0014	< 0.0016	< 0.0016	< 0.0014	< 0.0016	< 0.0016	< 0.0014
	Thallium	--	< 0.00014	--	--	< 0.00014	--	--	< 0.00014	--	--	< 0.00014	--	--

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 = Consituents for Detection Monitoring - 40 CFR Part 257 Appendix III.

Appendix IV = Consituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV.

-- Not analyzed for this constituent.

< 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 qualifited by the laboratory as estimated.

Table 6
Groundwater Analytical Data - February, March, and August 2021
2021 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2

	Analyte	YGWC-29I 2/12/2021	YGWC-29I 3/3/2021	YGWC-29I 8/20/2021
Appendix III	pH	6.24	6.27	6.07
	Boron	--	0.62	0.66
	Calcium	--	9.5	10.2
	Chloride	--	6.7	6.8
	Fluoride	0.17	0.056 J	0.069 J
	Sulfate	--	26.6	24.7
	Total Dissolved Solids	--	110	110
Appendix IV	Antimony	< 0.00028	< 0.00028	< 0.00078
	Arsenic	< 0.00078	< 0.00078	< 0.0011
	Barium	0.21	0.059	0.057
	Beryllium	< 0.000046	< 0.000046	< 0.000054
	Cadmium	< 0.00012	0.00029 J	0.00027 J
	Chromium	< 0.00055	< 0.00055	< 0.0011
	Cobalt	0.00094 J	< 0.00038	< 0.00039
	Lead	0.000066 J	0.00016 J	< 0.00089
	Lithium	< 0.00081	0.0054 J	0.0056 J
	Mercury	< 0.000078	--	--
	Molybdenum	0.00083 J	< 0.00069	< 0.00074
	Combined Radium - 226/228	0.826	0.955	0.314 U
	Selenium	< 0.0016	< 0.0016	< 0.0014
	Thallium	< 0.00014	--	--

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 = Consituents for Detection Monitoring - 40 CFR Part 257 Appendix III.

Appendix IV = Consituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV.

-- Not analyzed for this constituent.

< 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 qualifited by the laboratory as estimated.

Table 7
Background Levels and Groundwater Protection Standards
2021 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2

Constituent	Units	Background	Federal GWPS	State GWPS
March 2021				
Antimony	mg/L	0.0047	0.006	0.006
Arsenic	mg/L	0.005	0.010	0.010
Barium	mg/L	0.071	2	2
Beryllium	mg/L	0.0005	0.004	0.004
Cadmium	mg/L	0.0005	0.005	0.005
Chromium	mg/L	0.0093	0.100	0.100
Cobalt	mg/L	0.035	0.035 [3]	0.035 [3]
Fluoride	mg/L	0.680	4	4
Lead	mg/L	0.0013	0.015	0.0013
Lithium	mg/L	0.030	0.040	0.030
Mercury	mg/L	0.0002	0.002	0.002
Molybdenum	mg/L	0.014	0.100	0.014
Selenium	mg/L	0.005	0.050	0.050
Thallium	mg/L	0.001	0.002	0.002
Combined Radium - 226/228	pCi/L	6.92	6.92 [3]	6.92 [3]
August 2021				
Antimony	mg/L	0.0047	0.006	0.006
Arsenic	mg/L	0.005	0.010	0.010
Barium	mg/L	0.071	2	2
Beryllium	mg/L	0.0005	0.004	0.004
Cadmium	mg/L	0.0005	0.005	0.005
Chromium	mg/L	0.0093	0.100	0.100
Cobalt	mg/L	0.035	0.035 [3]	0.035 [3]
Fluoride	mg/L	0.680	4	4
Lead	mg/L	0.0013	0.015	0.0013
Lithium	mg/L	0.030	0.040	0.030
Mercury	mg/L	0.0002	0.002	0.002
Molybdenum	mg/L	0.014	0.100	0.014
Selenium	mg/L	0.005	0.050	0.050
Thallium	mg/L	0.001	0.002	0.002
Combined Radium - 226/228	pCi/L	6.92	6.92 [3]	6.92 [3]

Notes:

1. Site background: Tolerance limits calculated from pooled upgradient well data.

2. Federal GWPS = Groundwater Protection Standard per 40 CFR §257.95(h).

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 = millgrams per liter

pCi/L = picocuries per liter

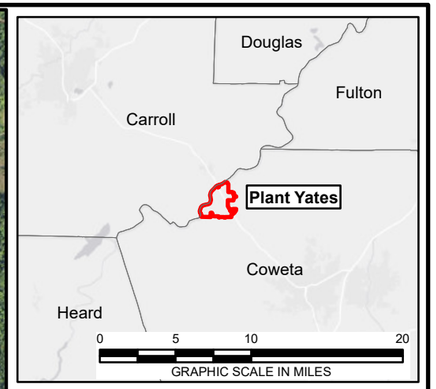
Figures

84°55'30"W 84°55'20"W 84°55'10"W 84°55'0"W 84°54'50"W 84°54'40"W 84°54'30"W 84°54'20"W 84°54'10"W 84°54'0"W 84°53'50"W 84°53'40"W 84°53'30"W 84°53'20"W 84°53'10"W 84°53'0"W 84°52'50"W 84°52'40"W 84°52'30"W

33°28'40"N
33°28'30"N
33°28'20"N
33°28'10"N
33°28'0"N
33°27'50"N
33°27'40"N
33°27'30"N
33°27'20"N
33°27'10"N
33°27'0"N
33°26'50"N
33°26'40"N

ASH POND 2

84°55'30"W 84°55'20"W 84°55'10"W 84°55'0"W 84°54'50"W 84°54'40"W 84°54'30"W 84°54'20"W 84°54'10"W 84°54'0"W 84°53'50"W 84°53'40"W 84°53'30"W 84°53'20"W 84°53'10"W 84°53'0"W 84°52'50"W 84°52'40"W 84°52'30"W 84°52'20"W



LEGEND

APPROXIMATE PROPERTY BOUNDARY
PERMITTED UNIT BOUNDARY

NOTE:
AERIAL IMAGE SOURCES: JULY 1, 2021 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.

0 650 1,300 2,600
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES AP-2
NEWNAN, GA
2021 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SITE LOCATION MAP

ARCADIS

FIGURE
1

84°54'50"W 84°54'40"W 84°54'30"W 84°54'20"W 84°54'10"W 84°54'0"W 84°53'50"W 84°53'40"W 84°53'30"W 84°53'20"W 84°53'10"W 84°53'0"W 84°52'50"W

33°28'10"N
33°28'0"N
33°27'50"N
33°27'40"N
33°27'30"N
33°27'20"N
33°27'10"N
33°27'0"N
33°26'50"N

YGWA-47
YGWC-52
PZ-09S
PZ-09I
YGWC-44
YGWC-45
FORMER ASH POND 1
GWC-4R
GWC-2R
GWC-1R
GWC-6R
GWC-3R
GWC-5R
GWA-2
FORMER GYPSUM STACK LANDFILL
PZ-53
YGWC-46A
PZ-10I
PZ-10S
YGWA-6I
YGWA-6S
PZ-06D
PZ-48
YGWC-26S
YGWC-26I
AP-2 WEST
YGWC-27S
YGWC-27I
ASH POND 2
YGWC-28S
YGWC-28I
YGWC-29I
FORMER ASH POND A
YGWC-49
YGWC-24SA
PZ-25I
PZ-25S
PZ-24IA
PZ-35
YAMW-1
YGWC-36A
ASH POND B
AP-2 AMAX COVE
YGWA-30I
PZ-31S
AMA - PERIMETER ROAD
ASH POND B'
PZ-13S
PZ-13I
YGWA-14S
PZ-14I
YGWA-17S
PZ-51
YGWC-43
R6 ASH DISPOSAL AREA
YGWA-18S
YGWA-18I
YGWA-1I
YGWA-1D
PZ-01S
YAMW-2
YAMW-3
YGWC-42
YAMW-4
YGWC-41
ASH POND 3
PZ-37D
PZ-37
PZ-53D
YGWC-23S
PZ-52D
EAST COVE
PZ-03S
YGWA-3I
YGWA-3D
YGWA-2I
YAMW-5
YGWC-38
ASH MANAGEMENT AREA
YGWA-40
YGWA-39
YGWA-21I
YGWA-20S
SOUTH COVE
PZ-04S
YGWA-4I
YGWA-5I
YGWA-5D
PZ-05S

LEGEND

- SAPROLITE NETWORK MONITORING WELL LOCATION
- TRANSITION NETWORK MONITORING WELL LOCATION
- BEDROCK NETWORK MONITORING WELL LOCATION
- SAPROLITE NON-NETWORK WELL/PIEZOMETER
- TRANSITION NON-NETWORK WELL/PIEZOMETER
- BEDROCK NON-NETWORK WELL/PIEZOMETER
- PERMITTED UNIT BOUNDARY
- AREA WHERE ASH HAS BEEN CERTIFIED REMOVED AS OF 1/31/2022

NOTE:
AERIAL IMAGE SOURCES: JULY 1, 2021 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.

0 450 900 1,800
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES AP-2
NEWNAN, GA
2021 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PLANT YATES CCR REMOVAL AREAS

ARCADIS

FIGURE
2

84°54'40"W 84°54'30"W 84°54'20"W 84°54'10"W 84°54'0"W 84°53'50"W

33°27'40"N

33°27'30"N

33°27'20"N

33°27'10"N

YGWC-26S
YGWC-26I
YGWC-27I
YGWC-27S
YGWC-28I
YGWC-28S
YGWC-29I
ASH POND 2
YGWA-30I
PZ-25I
PZ-25S
ASH MANAGEMENT AREA
PZ-31S
PZ-13S
PZ-13I
PZ-14I
YGWA-14S
R6 ASH DISPOSAL AREA
YGWA-1I
PZ-01S
YGWA-1D
PZ-03S
YGWA-3I
YGWA-3D
YGWA-2I

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
- PERMITTED UNIT BOUNDARY

NOTE:
AERIAL IMAGE SOURCES: JULY 1, 2021 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.

0 200 400 800
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES AP-2
NEWNAN, GA
2021 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

WELL LOCATION MAP

ARCADIS

FIGURE
3

84°54'40"W 84°54'30"W 84°54'20"W 84°54'10"W 84°54'0"W 84°53'50"W

33°27'40"N

33°27'30"N

33°27'20"N

33°27'10"N

ASH POND 2

ASH MANAGEMENT AREA

R6 ASH DISPOSAL AREA

YGWC-26S 690.85

YGWC-26I 689.86

YGWC-27I 686.61

YGWC-27S 686.84

YGWC-28I 688.43

YGWC-28S 690.27

YGWC-29I 689.59

YGWA-30I 703.10

PZ-25I 729.45

PZ-25S 730.96

PZ-31S 722.44

PZ-14I 730.23

YGWA-14S 731.20

PZ-13S 771.85

PZ-13I 768.29

YGWA-1I 798.76

PZ-01S 803.98

YGWA-1D 788.75

PZ-03S 760.68

YGWA-3I 744.21

YGWA-3D 767.34

YGWA-2I 821.29

690 700 710 720 730 740 750 760 770 780 790 800 810 820

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
- PERMITTED UNIT BOUNDARY
- APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION
- **731.20** 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 GROUNWATER 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: JULY 1, 2021 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.

5. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).

0 200 400 800

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

PLANT YATES AP-2
NEWNAN, GA

2021 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

GROUNDWATER ELEVATION MAP FEBRUARY 2021

ARCADIS

FIGURE **4**

84°54'40"W 84°54'30"W 84°54'20"W 84°54'10"W 84°54'0"W 84°53'50"W

33°27'40"N

33°27'30"N

33°27'20"N

33°27'10"N

ASH POND 2

ASH MANAGEMENT AREA

R6 ASH DISPOSAL AREA

YGWC-26S 691.42
YGWC-26I 689.92
YGWC-27I 685.84
YGWC-27S 686.17
YGWC-28I 688.14
YGWC-28S 689.89
YGWC-29I 689.18
YGWA-30I 718.70
PZ-25I 729.62
PZ-25S 731.21
PZ-31S 722.13
PZ-14I 730.96
YGWA-14S 732.06
PZ-13S 772.15
PZ-13I 768.68
YGWA-1I 799.35
PZ-01S 804.42
YGWA-1D 789.37
PZ-03S 760.67
YGWA-3I 744.19
YGWA-3D 767.48
YGWA-2I 821.75

690 700 710 720 730 740 750 760 770 780 790 800 810 820

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
- PERMITTED UNIT BOUNDARY
- GROUNDWATER FLOW DIRECTION
- APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED

730.96 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 GROUNWATER 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: JULY 1, 2021 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.

5. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).

0 200 400 800

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

PLANT YATES AP-2
NEWNAN, GA

2021 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

GROUNDWATER ELEVATION MAP MARCH 2021

ARCADIS

FIGURE **5**

84°54'40"W 84°54'30"W 84°54'20"W 84°54'10"W 84°54'0"W 84°53'50"W

33°27'40"N

33°27'30"N

33°27'20"N

33°27'10"N

YGWC-26S 689.08
YGWC-26I 688.23
YGWC-27I 684.33
YGWC-27S (NM)
YGWC-28I 686.48
YGWC-28S 688.13
YGWC-29I 688.25
YGWA-30I 718.23**
PZ-13S 771.89
PZ-13I 768.26
YGWA-1I 799.50
PZ-01S 804.65
YGWA-1D 788.64
YGWA-2I 822.00
PZ-03S 760.96
YGWA-3I 743.39
YGWA-3D 767.06
PZ-14I 698.20*
YGWA-14S 728.82**
PZ-25I 723.04
PZ-25S 725.60
PZ-31S 703.90*

ASH POND 2

ASH MANAGEMENT AREA

R6 ASH DISPOSAL AREA

700 710 720 730 740 690 750 760 770 780 790 800 810 820

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
- PERMITTED UNIT BOUNDARY
- GROUNDWATER FLOW DIRECTION
- APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED

684.33 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: JULY 1, 2021 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.

5. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).

6. GROUNDWATER ELEVATIONS COLLECTED ON AUGUST 16 & 17, 2021.

7.* - WELLS INACCESSIBLE DURING GAUGING EVENT DUE TO TROPICAL STORM. GROUNDWATER ELEVATIONS COLLECTED ON AUGUST 25, 2021 AND NOT USED IN CONTOURING.

8. ** - WELLS INACCESSIBLE DURING GAUGING EVENT DUE TO TROPICAL STORM. GROUNDWATER ELEVATIONS COLLECTION ON AUGUST 19, 2021 DURING SAMPLING EFFORTS AND NOT USED FOR CONTOURING.

9. (NM) – GROUNDWATER ELEVATION NOT MEASURED DUE TO PUMP BLOCKING WATER COLUMN IN WELL.

0 200 400 800

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

PLANT YATES AP-2
NEWNAN, GA

2021 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

GROUNDWATER ELEVATION MAP AUGUST 2021

ARCADIS

FIGURE **6**

Appendix A

Field Sampling Forms (February, March, and August 2021)

February 2021 Event

February 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis

Instrument Calibration

Date: 2/08/21 Time: 14:30

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	100	NA
Conductivity	us/cm	8000	8000	8000	NA
pH	S.U.	4.00	4.00	4.00	NA
pH	S.U.	7.00	7.00	7.00	NA
pH	S.U.	10.00	10.00	10.00	NA
ORP	mV	232.0	232.0	232.0	NA

Turbidity Standard	Units	LaMotte SN 1164-2911	LaMotte SN 6012-4015	LaMotte SN 6012-4015
0.0	NTU	0.00	0.00	NA
10.0	NTU	10.00	10.00	NA

Notes:

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

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = not used that day

February 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis

Instrument Calibration

Date: 2/09/21 Time: 7:00

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00	7.00
pH	S.U.	10.00	10.00	10.00	10.00
ORP	mV	232.0	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 1164-2911	LaMotte SN 6012-4015	LaMotte SN 6012-4015
0.0	NTU	0.00	0.00	NA
10.0	NTU	10.00	10.00	NA

Date: 2/09/21 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00	7.00
pH	S.U.	10.00	10.00	10.00	10.00
ORP	mV	232.0	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 1164-2911	LaMotte SN 6012-4015	LaMotte SN 6012-4015
0.0	NTU	0.00	0.00	NA
10.0	NTU	10.00	10.00	NA

Notes:

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

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = not used that day

February 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis

Instrument Calibration

Date: 2/10/21 Time: 7:00

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00
pH	S.U.	7.00	6.98	6.98	6.98
pH	S.U.	10.00	10.00	10.00	10.00
ORP	mV	229	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 1164-2911	LaMotte SN 6012-4015	Geotech SN 18081847
0.0	NTU	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00

Date: 2/10/21 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00
pH	S.U.	7.00	6.98	6.98	6.98
pH	S.U.	10.00	10.00	10.00	10.00
ORP	mV	228	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 1164-2911	LaMotte SN 6012-4015	Geotech SN 18081847
0.0	NTU	NA	0.00	NA
10.0	NTU	NA	10.00	NA

Notes:

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

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = not used that day

February 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis

Instrument Calibration

Date: 2/11/21 Time: 7:00

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00
pH	S.U.	7.00	6.98	6.98	6.98
pH	S.U.	10.00	10.00	10.00	10.00
ORP	mV	229	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 1164-2911	LaMotte SN 6012-4015	Geotech SN 18081847
0.0	NTU	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00

Date: 2/11/21 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00
pH	S.U.	7.00	6.98	6.98	6.98
pH	S.U.	10.00	10.00	10.00	10.00
ORP	mV	228	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 1164-2911	LaMotte SN 6012-4015	Geotech SN 18081847
0.0	NTU	NA	0.00	NA
10.0	NTU	NA	10.00	NA

Notes:

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

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = not used that day

February 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Becky Steever

Instrument Calibration

Date: 2/12/21 Time: 07:00

Parameter	Units	Standard	SmarTROLL SN 513261	SmarTROLL SN 518550	SmarTROLL SN 509072
DO	% saturation	100	100	NA	NA
Conductivity	us/cm	8000	8000	NA	NA
pH	S.U.	4.00	4.00	NA	NA
pH	S.U.	6.98	6.98	NA	NA
pH	S.U.	10.00	10.00	NA	NA
ORP	mV	232.0	232.0	NA	NA

Turbidity Standard	Units	LaMotte SN 5961-3815	LaMotte SN 1164-2911	LaMotte SN 6012-4015	Geotech SN 18081847
0.0	NTU	0.00	0.00	NA	NA
10.0	NTU	10.00	10.00	NA	NA

Notes:

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

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = not used that day

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AP-2
Date:	2/8/2021
Sampler:	Becky Steever
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWA-2I	2/8/2021	09:16:00	44.96	63.75	--
YGWA-1D	2/8/2021	09:39:00	48.50	128.85	--
PZ-1S	2/8/2021	09:42:00	32.86	36.34	--
YGWA-1I	2/8/2021	09:45:00	37.84	53.60	--
PZ-13S	2/8/2021	09:50:00	35.94	43.79	--
PZ-13I	2/8/2021	09:58:00	39.33	59.22	--
PZ-3S	2/8/2021	10:02:00	35.71	42.39	--
YGWA-3I	2/8/2021	10:15:00	52.34	59.05	--
YGWA-3D	2/8/2021	10:18:00	29.44	134.18	--
YGWA-14S	2/8/2021	10:25:00	17.56	34.96	--
PZ-14I	2/8/2021	10:42:00	18.83	50.86	--
PZ-31S	2/8/2021	10:48:00	16.18	34.72	--
YGWA-30I	2/8/2021	10:52:00	44.35	59.48	--
PZ-25I	2/8/2021	11:03:00	36.93	84.58	--
PZ-25S	2/8/2021	11:22:00	35.64	56.80	--
YGWC-26S	2/8/2021	12:00:00	25.43	40.18	--
YGWC-26I	2/8/2021	12:04:00	26.05	69.81	--
YGWC-27I	2/8/2021	12:11:00	29.58	79.99	--
YGWC-27S	2/8/2021	12:19:00	29.68	40.52	--
YGWC-28I	2/8/2021	12:30:00	29.50	69.93	--
YGWC-28S	2/8/2021	12:32:00	27.68	44.95	--
YGWC-29I	2/8/2021	12:47:00	27.80	39.59	--

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AP-2
Date:	3/1/2021
Sampler:	Katie Pupkiewicz
Equipment:	--

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWA-14S	3/1/2021	12:04:00	16.70	34.96	Well pad cannot be seen
PZ-14I	3/1/2021	12:08:00	18.10	50.86	Well pad cannot be seen
PZ-31S	3/1/2021	12:13:00	16.49	34.72	--
YGWA-30I	3/1/2021	12:20:00	43.88	59.48	--
PZ-3S	3/1/2021	12:35:00	35.72	42.39	--
YGWA-3I	3/1/2021	12:39:00	52.36	59.05	--
YGWA-3D	3/1/2021	12:42:00	29.30	134.18	--
YGWA-2I	3/1/2021	13:39:00	44.50	63.75	--
YGWA-1I	3/1/2021	13:42:00	37.25	53.60	--
PZ-1S	3/1/2021	13:46:00	32.42	36.34	--
YGWA-1D	3/1/2021	13:48:00	47.88	128.85	--
PZ-13S	3/1/2021	13:52:00	35.64	43.79	--
PZ-13I	3/1/2021	13:56:00	38.94	59.22	--
PZ-25S	3/1/2021	14:10:00	35.39	56.80	--
PZ-25I	3/1/2021	14:12:00	36.76	84.58	--
YGWC-29I	3/1/2021	14:24:00	28.21	39.59	--
YGWC-28S	3/1/2021	14:54:00	28.06	44.95	--
YGWC-28I	3/1/2021	14:55:00	29.79	69.93	--
YGWC-27S	3/1/2021	15:01:00	30.35	40.52	--
YGWC-27I	3/1/2021	15:03:00	30.35	79.99	--
YGWC-26S	3/1/2021	15:10:00	24.86	40.18	--
YGWC-26I	3/1/2021	15:11:00	25.99	69.81	--

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052922	**Well ID**	YGWA-2I			**Date**	02/10/2021
Project Location	AP-2		**Weather(°F)**	68.0 degrees F and Clear. The wind is blowing E/SE at 8.1 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	53.45	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	44.9	**Total Depth (ft-bmp)**	63.75	**Water Column(ft)**	18.85	**Gallons in Well**	3.06
MP Elevation	866.25	**Pump Intake (ft-bmp)**	60	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:40	**Well Volumes Purged**	0.45	**Sample ID**	YGWA-2I	**Sampled by**	Becky Steever
Purge Start	10:41	**Gallons Purged**	1.37	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:39						

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)
10:41:35	00:00	45	45.45	7.21	202.10	22.74	8.56	14.4	210.56
10:46:35	05:00	45	46.28	7.31	255.83	4.49	4.19	15.6	-77.14
10:51:35	10:00	45	46.75	7.42	241.50	3.18	2.74	16.1	-62.33
10:56:35	15:00	45	47.24	7.60	0.06	0.51	2.35	17.6	-43.77
11:01:35	20:00	45	47.55	7.25	0.06	0.16	3.32	18.9	-7.49
11:06:35	25:00	45	47.86	7.50	263.14	0.38	2.39	17.9	-96.50
11:11:35	30:00	45	48.09	7.42	272.18	0.61	4.43	18.3	-88.36
11:16:35	35:00	45	48.3	7.41	268.37	0.66	2.29	18.0	-88.23
11:21:35	40:00	45	48.58	7.37	271.49	0.98	2.18	18.0	-82.05
11:26:35	45:00	45	48.82	7.34	255.31	0.69	2.21	17.9	-74.02
11:31:35	50:00	45	49.08	7.38	254.07	0.75	2.24	17.8	-74.29
11:36:35	55:00	45	49.3	7.35	251.92	1.35	2.30	18.0	-64.60
11:41:35	00:00	40	49.51	7.33	251.77	2.96	2.33	18.2	-63.33
11:46:35	05:00	40	49.79	7.35	250.27	2.56	2.32	18.6	-62.86
11:51:35	10:00	40	49.84	7.33	251.85	4.70	2.21	18.5	-60.14
11:56:35	15:00	43	50.13	7.33	249.24	6.05	2.24	18.4	-56.65
12:01:35	20:00	40	50.76	7.32	244.83	9.20	2.18	18.2	-53.59
12:06:35	25:00	40	50.97	7.29	243.86	10.44	2.23	18.5	-51.48
12:11:35	30:00	40	51.11	7.30	243.13	10.71	2.18	18.7	-45.47
12:16:35	35:00	40	52.1	7.30	242.49	14.35	2.28	18.5	-44.50
12:21:35	40:00	40	51.35	7.30	242.56	18.27	2.30	18.6	-45.62
12:26:35	45:00	45	51.5	7.30	242.07	19.66	2.32	18.7	-45.53
12:31:35	50:00	45	51.63	7.29	243.55	23.57	2.19	19.0	-44.47

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

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

Comments: Well historically purged around 40-50 ml/minute because of slow recharge.
Turbidity from stand alone meter: 10.3, 9.6, 8.4, 6.7, 5.21, 0.88, 0.97, 0.66, 0.99, 10.2, 5.63, 5.88, 6.73, 6.01, 7.88, 5.12, 5.19, 5.06, 4.88, 3.01, 3.15, 2.89, 2.61, 1.87, 1.6, 1.31,
Turbidity mid sampling 1.2

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

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30053438	**Well ID**	YGWC-26S			**Date**	02/10/2021
Project Location	AP-2			**Weather(°F)**	Sunny, dry		
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)	26.55	**Total Depth (ft-bmp)**	40.18	**Water Column(ft)**	13.63	**Gallons in Well**	2.21
MP Elevation	716.28	**Pump Intake (ft-bmp)**	37	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:00	**Well Volumes Purged**	0.51	**Sample ID**	YGWC-26S	**Sampled by**	Peter Argyakis
Purge Start	09:33	**Gallons Purged**	1.14	**Replicate/ Code No.**		**Color**	Clear
Purge End	09:58						

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)
09:33:20	00:00	250	26.55	5.85	316.89	0.00	7.74	15.4	83.91
09:38:20	05:00	200	26.8	5.02	290.91	27.81	0.65	17.5	177.29
09:43:20	10:00	100	27.12	5.05	290.81	2.31	0.42	17.7	197.71
09:48:20	15:00	100	27.31	5.10	292.66	0.00	0.35	17.6	201.35
09:53:20	20:00	100	27.39	5.14	293.42	1.78	0.34	17.7	199.66
09:58:20	25:00	100	27.5	5.18	294.85	0.00	0.35	17.6	197.90

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

Comments:

LaMotte turbidity readings (time:NTU)
0933: 3.10
0938: 2.34
0943: 2.16
0948: 2.88
0953: 2.15
0958: 2.22

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

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30053437	**Well ID**	YGWA-30I			**Date**	02/11/2021
Project Location	AP-2		**Weather(°F)**	62.1 degrees F and Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	49.18	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	44.34	**Total Depth (ft-bmp)**	59.48	**Water Column(ft)**	15.14	**Gallons in Well**	2.46
MP Elevation	762.58	**Pump Intake (ft-bmp)**	54.5	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:50	**Well Volumes Purged**	0.93	**Sample ID**	YGWA-30I	**Sampled by**	Katie Pupkiewicz
Purge Start	09:01	**Gallons Purged**	2.30	**Replicate/ Code No.**	FB-02	**Color**	Clear
Purge End	09:46						

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)
09:01:52	00:00	160	44.34	9.55	89.01	193.33	9.66	14.6	153.49
09:06:52	05:00	160	44.36	8.38	57.50	0.09	7.56	16.2	151.32
09:11:52	10:00	160	44.36	7.79	57.32	0.06	7.33	16.4	138.33
09:14:34	12:42	160	44.36	7.34	57.40	0.38	8.22	16.4	150.83
09:19:34	17:42	160	44.33	6.74	53.64	0.05	7.28	16.4	146.95
09:24:34	22:42	160	44.37	6.54	53.49	0.10	7.30	16.5	143.06
09:29:34	27:42	160	44.37	6.28	52.94	0.10	7.26	16.5	142.17
09:34:34	32:42	160	44.39	5.97	36.16	0.10	9.51	16.4	166.24
09:39:34	37:42	160	44.36	5.92	52.62	0.87	7.52	16.3	149.81
09:44:34	42:42	160	44.35	5.82	52.53	2.11	7.51	16.2	153.33
09:49:34	47:42	160	44.35	5.76	53.42	0.21	7.52	16.2	156.09
09:53:05	51:13	160	44.35	5.73	52.52	0.09	7.48	16.2	160.20

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

Comments: LaMotte turbidity readings every five minutes in accordance with VuSitu purge log
0.70
1.33
0.89
0.06
0.21
0.06
0.29
1.57
1.41
1.02
0.76

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
µS/cm = microSiemens per centimeters
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

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

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30052922	**Well ID**	YGWC-29I			**Date**	02/12/2021
Project Location	AP-2		**Weather(°F)**				
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)	28.2	**Total Depth (ft-bmp)**	39.59	**Water Column(ft)**	11.39	**Gallons in Well**	1.85
MP Elevation	717.39	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:20	**Well Volumes Purged**	0.34	**Sample ID**	YGWC-29I	**Sampled by**	Becky Steever
Purge Start	14:02	**Gallons Purged**	0.63	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:15						

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)
14:02:06	00:00	200	28.2	6.58	238.89	0.04	7.63	14.6	45.42
14:07:06	05:00	100	29.02	6.33	230.00	0.02	3.26	16.2	42.50
14:10:51	08:45	100	29.18	6.27	225.64	0.04	5.94	16.4	43.76
14:15:51	13:45	100	29.19	6.24	219.79	0.07	8.83	16.5	47.82

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

Comments: LaMotte turbidity reading at time of sample below 5.0 NTU

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

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
µS/cm = microSiemens per centimeters
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30053438	**Well ID**	YGWC-26I			**Date**	02/10/2021
Project Location	AP-2		**Weather(°F)**	It is Clear. The wind is blowing E/SE at 4.7 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)	26.33	**Total Depth (ft-bmp)**	69.81	**Water Column(ft)**	43.48	**Gallons in Well**	7.07
MP Elevation	715.91	**Pump Intake (ft-bmp)**	65	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:10	**Well Volumes Purged**	0.24	**Sample ID**	YGWC-26I	**Sampled by**	Peter Argyakis
Purge Start	10:27	**Gallons Purged**	1.72	**Replicate/ Code No.**	DUP-2	**Color**	Clear
Purge End	11:08						

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)
10:27:46	00:00	150	26.33	6.19	319.75	8.58	9.25	14.9	146.67
10:32:46	05:00	150	26.67	5.88	339.80	0.00	0.55	18.2	19.24
10:37:46	10:00	150	26.74	5.84	337.26	0.00	0.29	18.3	74.50
10:42:46	15:00	150	26.74	5.85	337.29	0.00	0.37	18.5	106.49
10:47:46	20:00	150	26.74	5.84	337.96	0.00	0.44	19.2	126.30
10:52:46	25:00	150	26.74	5.88	338.40	4.30	1.20	19.7	137.25
10:57:46	30:00	150	26.74	5.96	339.60	3.86	1.52	20.3	144.25
11:02:46	35:00	150	26.74	5.94	340.40	3.71	1.65	21.1	147.54
11:07:46	40:00	150	26.74	5.96	342.59	3.49	1.95	21.9	149.37

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

Comments:

LaMotte turbidity readings (time:NTU)
1027: 2.23
1033: 2.79
1038: 3.44
1043: 2.40
1048: 2.02
1053: 1.76
1058: 1.51
1103: 1.20
1108: 1.55

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: _____

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30053438	**Well ID**	YGWA-14S			**Date**	02/10/2021
Project Location	AP-2			**Weather(°F)**	Cold, dry		
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)	17.71	**Total Depth (ft-bmp)**	34.96	**Water Column(ft)**	17.25	**Gallons in Well**	2.8
MP Elevation	748.76	**Pump Intake (ft-bmp)**	30	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	08:50	**Well Volumes Purged**	0.42	**Sample ID**	YGWA-14S	**Sampled by**	Peter Argyakis
Purge Start	08:26	**Gallons Purged**	1.19	**Replicate/ Code No.**	DUP-1	**Color**	Clear
Purge End	08:46						

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)
08:26:07	00:00	250	17.71	6.11	0.08	0.00	10.79	10.8	214.06
08:31:07	05:00	150	18.48	5.26	68.42	0.00	6.32	16.4	232.90
08:36:07	10:00	150	18.5	5.31	67.43	0.00	6.22	16.9	224.32
08:41:07	15:00	150	18.5	5.28	67.62	0.00	6.22	16.9	218.17
08:46:07	20:00	150	18.5	5.35	66.78	0.00	6.22	17.0	217.29

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

Comments: LaMotte turbidity readings (time:NTU)
0826: 2.61
0831: 1.97
0836: 2.46
0841: 2.35
0846: 1.66

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

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30053438	**Well ID**	YGWC-27S			**Date**	02/10/2021
Project Location	AP-2			**Weather(°F)**	68.0 degrees F and Clear. The wind is blowing E/SE at 8.1 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)	30.07	**Total Depth (ft-bmp)**	40.52	**Water Column(ft)**	10.45	**Gallons in Well**	1.7
MP Elevation	716.52	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:15	**Well Volumes Purged**	0.70	**Sample ID**	YGWC-27S	**Sampled by**	Peter Argyakis
Purge Start	12:42	**Gallons Purged**	1.19	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:12						

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)
12:42:00	00:00	150	30.07	6.63	374.13	2.39	8.13	19.8	36.32
12:47:00	05:00	150	30.07	6.40	379.02	0.30	7.06	19.7	22.22
12:52:00	10:00	150	30.07	6.18	364.33	1.01	0.97	20.0	63.36
12:57:00	15:00	150	30.07	6.19	378.99	2.63	0.77	19.8	78.63
13:02:00	20:00	150	30.07	6.18	377.55	16.96	0.68	19.8	87.62
13:07:00	25:00	150	30.07	6.20	377.34	18.05	0.58	19.9	92.63
13:12:00	30:00	150	30.07	6.21	378.47	10.17	0.53	20.1	95.47

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

Comments: LaMotte turbidity readings (time:NTU)
1242: 3.74
1247: 3.90
1252: 2.78
1257: 2.19
1302: 2.55
1307: 2.41
1312: 2.78

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

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
µS/cm = microSiemens per centimeters
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052922	**Well ID**	YGWA-1D			**Date**	02/12/2021
Project Location	AP-2		**Weather(°F)**	60.8 degrees F and Fog/Mist. The wind is blowing N/NW at 5.8 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)	48.49	**Total Depth (ft-bmp)**	128.85	**Water Column(ft)**	80.36	**Gallons in Well**	13.06
MP Elevation	837.25	**Pump Intake (ft-bmp)**	108	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:55	**Well Volumes Purged**	0.17	**Sample ID**	YGWA-1D	**Sampled by**	Becky Steever
Purge Start	11:03	**Gallons Purged**	2.22	**Replicate/ Code No.**	NA	**Color**	Clear
Purge End	11:52						

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)
11:03:28	00:00	170	48.64	9.25	182.29	2.92	9.73	14.1	117.37
11:08:28	05:00	170	48.49	7.98	172.12	1.04	2.42	15.4	89.74
11:13:28	10:00	170	48.58	7.58	174.43	2.40	0.47	15.6	54.39
11:18:28	15:00	170	48.67	7.43	162.65	16.36	0.37	15.5	24.60
11:19:57	16:29	170	48.75	7.37	163.34	7.41	0.36	15.5	11.75
11:24:57	21:29	170	48.78	7.25	157.96	2.90	0.44	15.5	-6.04
11:29:57	26:29	170	48.77	7.21	151.71	0.95	0.41	15.5	-17.64
11:34:57	31:29	170	48.78	7.16	149.50	0.34	0.43	15.4	-27.23
11:39:57	36:29	170	48.78	7.16	144.03	0.38	0.63	15.4	-33.59
11:44:57	41:29	170	48.78	7.14	141.18	0.31	0.58	15.5	-35.86
11:49:57	46:29	170	48.78	7.14	139.66	0.33	0.59	15.4	-37.20

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

Comments: LaMotte turbidity readings (time:NTU):
1103=1.2, 1108=1.63, 1113=1.02, 1118=2.3, 1119=10.3, 1124= 6.4, 1129= 3.2, 1134=1.3, 1139=0.87, 1144=0.55, 1149=0.23

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

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052922	**Well ID**	YGWC-28S			**Date**	02/12/2021
Project Location	AP-2			**Weather(°F)**	°, , winds at 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)	27.69	**Total Depth (ft-bmp)**	44.95	**Water Column(ft)**	17.26	**Gallons in Well**	2.8
MP Elevation	717.95	**Pump Intake (ft-bmp)**	40	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:20	**Well Volumes Purged**	0.59	**Sample ID**	YGWC-28S	**Sampled by**	Becky Steever
Purge Start	14:42	**Gallons Purged**	1.65	**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)
14:42:51	00:00	200	28.58	6.36	430.65	29.86	6.26	17.1	49.86
14:47:51	05:00	200	28.58	6.53	468.92	17.24	0.48	17.7	-11.42
14:52:51	10:00	200	28.58	6.55	471.24	12.05	0.38	17.7	-27.26
14:57:51	15:00	200	28.58	6.54	473.86	7.95	0.44	17.8	-38.21
15:02:51	20:00	150	28.58	6.55	474.86	9.06	0.26	17.5	-40.66
15:07:51	25:00	150	28.58	6.67	470.56	3.92	0.98	17.8	-37.65
15:12:51	30:00	150	28.58	6.65	472.41	1.99	0.91	17.4	-38.74
15:17:51	35:00	150	28.58	6.60	470.37	2.31	0.88	17.4	-38.66

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

Comments: After 20 minute reading emptied out flow through cell, took turbidity reading with stand alone meter (3.26); and reconnected. Likely particles stuck in flow rough cell causing a higher reading.
Following readings (time=NTU): 15073.87, 1512=3.01, 1517=3.15

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

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30052922	**Well ID**	YGWA-3D			**Date**	02/10/2021
Project Location	AP-2			**Weather(°F)**	71.4 degrees F and Cloudy. The wind is blowing W 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)	29.35	**Total Depth (ft-bmp)**	134.18	**Water Column(ft)**	104.83	**Gallons in Well**	17.03
MP Elevation	796.78	**Pump Intake (ft-bmp)**	113	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	17:25	**Well Volumes Purged**	0.07	**Sample ID**	YGWA-3D	**Sampled by**	Becky Steever
Purge Start	17:01	**Gallons Purged**	1.19	**Replicate/ Code No.**		**Color**	Clear
Purge End	17:22						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
17:01:20	00:00	200	29.48	7.64	211.97	0.40	9.99	16.4	25.63
17:06:20	05:00	200	29.48	7.57	208.55	0.58	0.70	16.8	-93.37
17:11:20	10:00	200	29.48	7.77	208.32	0.22	0.25	16.7	-106.85
17:16:20	15:00	200	29.48	7.82	207.94	0.21	0.23	16.8	-117.00
17:21:20	20:00	200	29.48	7.81	207.63	0.22	0.15	16.7	-121.14

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

Comments: LaMotte turbidity reading at time of sampling below 5.0 NTU

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

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30053438	**Well ID**	YGWC-28I			**Date**	02/11/2021
Project Location	AP-2		**Weather(°F)**	Rain, cold			
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)	32.4	**Total Depth (ft-bmp)**	69.93	**Water Column(ft)**	37.53	**Gallons in Well**	6.1
MP Elevation	717.93	**Pump Intake (ft-bmp)**	64	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:40	**Well Volumes Purged**	0.40	**Sample ID**	YGWC-28I	**Sampled by**	Peter Argyakis
Purge Start	09:01	**Gallons Purged**	2.43	**Replicate/ Code No.**	MSMSD	**Color**	Clear
Purge End	09:37						

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)
09:01:21	00:00	250	32.4	7.22	0.22	107.51	10.05	15.1	203.76
09:06:21	05:00	250	32.56	6.85	0.07	104.23	9.49	15.4	194.81
09:11:21	10:00	250	32.62	6.57	423.92	0.00	1.82	17.3	210.12
09:16:21	15:00	250	32.77	6.54	422.20	0.00	0.31	17.4	196.94
09:21:21	20:00	250	32.84	6.55	421.36	0.00	0.28	17.5	191.34
09:26:21	25:00	250	32.9	6.55	422.92	0.00	0.23	17.6	185.08
09:31:21	30:00	250	32.94	6.55	424.41	0.00	0.20	17.4	179.86
09:36:21	35:00	250	32.94	6.57	423.66	0.00	0.23	16.7	181.61

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

Comments:

LaMotte turbidity reading (time:NTU)
0901: 2.16
0906: 2.70
0911: 2.35
0916: 1.73
0921: 2.56
0926: 2.33
0931: 2.10
0936: 1.61

Last depth to water: 32.97

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: _____

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052922	**Well ID**	YGWA-1I			**Date**	02/12/2021
Project Location	AP-2		**Weather(°F)**	48.9 degrees F and . The wind is blowing NW 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)	37.88	**Total Depth (ft-bmp)**	53.6	**Water Column(ft)**	15.72	**Gallons in Well**	2.55
MP Elevation	836.6	**Pump Intake (ft-bmp)**	49	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:20	**Well Volumes Purged**	0.53	**Sample ID**	YGWA-1I	**Sampled by**	Becky Steever
Purge Start	12:26	**Gallons Purged**	1.34	**Replicate/ Code No.**		**Color**	Clear
Purge End	07:44						

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)
12:26:12	00:00	150	38.88	6.90	68.81	1.00	8.53	14.4	-3.90
12:31:12	05:00	125	40.02	6.86	88.19	1.46	3.02	15.0	-21.28
12:36:12	10:00	130	41.31	6.76	79.14	1.15	1.87	15.0	-24.45
12:44:42	18:30	100	42.28	6.40	57.67	0.11	3.50	15.1	-5.10
12:49:42	23:30	100	42.35	6.27	53.86	0.12	4.27	15.0	8.87
12:54:42	28:30	100	42.33	6.24	53.72	0.17	4.52	15.0	15.13
12:59:42	33:30	100	42.34	6.24	55.39	0.26	4.55	15.0	22.86
13:04:42	38:30	100	42.35	6.19	56.98	0.32	4.55	15.0	25.36
13:09:42	43:30	100	42.35	6.22	58.65	0.54	4.54	14.9	28.94
13:11:37	45:25	100	42.35	6.15	60.53	0.70	4.62	15.0	32.39
13:15:15	49:03	100	42.35	6.21	59.56	0.72	4.69	15.0	33.68

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

Comments: Lost communication between 10 and 18 minute reading
LaMotte turbidity reading at time of sampling below 5.0 NTU

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

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30052922	**Well ID**	YGWA-3I			**Date**	02/10/2021
Project Location	AP-2			**Weather(°F)**	71.4 degrees F and Cloudy. The wind is blowing W at 3.4 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)	52.34	**Total Depth (ft-bmp)**	59.05	**Water Column(ft)**	6.71	**Gallons in Well**	1.09
MP Elevation	796.55	**Pump Intake (ft-bmp)**	54	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:40	**Well Volumes Purged**	1.96	**Sample ID**	YGWA-3I	**Sampled by**	Becky Steever
Purge Start	16:04	**Gallons Purged**	2.14	**Replicate/ Code No.**		**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)
16:04:38	00:00	250	52.34	7.49	252.19	0.44	6.27	17.5	185.91
16:09:38	05:00	250	54.48	7.51	259.68	0.13	2.86	17.2	28.89
16:14:38	10:00	230	54.62	7.49	239.27	0.08	1.52	17.2	-37.90
16:19:38	15:00	200	54.92	7.50	217.20	0.11	0.73	17.0	-61.08
16:24:38	20:00	200	54.95	7.55	201.91	0.15	0.55	17.2	-81.07
16:29:38	25:00	200	54.95	7.57	187.43	0.12	0.33	17.2	-92.72
16:34:38	30:00	200	54.92	7.59	183.94	0.12	0.30	17.0	-98.58
16:39:38	35:00	200	54.93	7.58	182.29	0.18	0.29	16.9	-99.61

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

Comments: LaMotte turbidity reading (time=NTU)
1604=0.78, 1609=0.32, 1614=0.28, 1619=0.22, 1624=0.25,1629= 0.19, 1634=0.11,1639= 0.15

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

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
µS/cm = microSiemens per centimeters
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30053438	**Well ID**	YGWC-27I			**Date**	02/10/2021
Project Location	AP-2		**Weather(°F)**	Sunny, dry			
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)	31	**Total Depth (ft-bmp)**	79.99	**Water Column(ft)**	48.99	**Gallons in Well**	7.96
MP Elevation	716.19	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:20	**Well Volumes Purged**	0.12	**Sample ID**	YGWC-27I	**Sampled by**	Peter Argyakis
Purge Start	11:57	**Gallons Purged**	0.92	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:17						

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)
11:57:31	00:00	150	31	6.39	341.69	0.00	3.94	18.6	8.55
12:02:31	05:00	150	31	6.33	366.59	0.87	1.04	18.6	-11.42
12:07:31	10:00	150	31	6.32	366.78	0.00	0.58	19.1	-25.17
12:12:31	15:00	150	31	6.30	363.82	0.00	0.46	19.5	-29.24
12:17:31	20:00	150	31	6.29	360.06	0.00	0.41	19.5	-33.92

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

Comments: LaMotte turbidity readings (time:NTU)
1157: 4.52
1202: 3.69
1207: 3.14
1212: 2.80
1217: 2.44

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

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

March 2021 Event

March 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis/Jake Swanson

Instrument Calibration

Date: 3/01/21 Time: 11:00

Parameter	Units	Standard	SmarTROLL SN 518784	SmarTROLL SN 613960	SmarTROLL SN 532229	SmarTROLL SN 519017
DO	% saturation	100	100	100	100	NA
Conductivity	us/cm	8000	8000	8000	8000	NA
pH	S.U.	4.00	4.00	4.00	4.00	NA
pH	S.U.	7.00	7.00	7.00	7.00	NA
pH	S.U.	10.00	10.00	10.00	10.00	NA
ORP	mV	235.4	235.4	235.4	235.4	NA

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Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219	LaMotte SN 1143-1319
0.0	NTU	0.00	0.00	0.00	NA
10.0	NTU	10.00	10.00	10.00	NA

Notes:

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

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = not used that day

March 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis/Jake Swanson

Instrument Calibration

Date: 3/02/21 Time: 10:00

Parameter	Units	Standard	SmarTROLL SN 518784	SmarTROLL SN 613960	SmarTROLL SN 532229	SmarTROLL SN 519017
DO	% saturation	100	100	100	100	NA
Conductivity	us/cm	8000	8000	8000	8000	NA
pH	S.U.	4.00	4.00	4.00	4.00	NA
pH	S.U.	7.00	7.00	7.00	7.00	NA
pH	S.U.	10.00	10.00	10.00	10.00	NA
ORP	mV	232.0	232.0	232.0	232.0	NA

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219	LaMotte SN 1143-1319
0.0	NTU	0.00	0.00	0.00	NA
10.0	NTU	10.00	10.00	10.00	NA

Notes:

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

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = not used that day

March 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis/Jake Swanson

Instrument Calibration

Date: 3/03/21 Time: 07:45

Parameter	Units	Standard	SmarTROLL SN 518784	SmarTROLL SN 613960	SmarTROLL SN 532229	SmarTROLL SN 519017
DO	% saturation	100	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00	7.00	7.00
pH	S.U.	10.00	10.00	10.00	10.00	10.00
ORP	mV	232.0	232.0	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219	LaMotte SN 1143-1319
0.0	NTU	0.00	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00	10.00

Date: 3/03/21 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 518784	SmarTROLL SN 613960	SmarTROLL SN 532229	SmarTROLL SN 519017
DO	% saturation	100	100	100	100	NA
Conductivity	us/cm	8000	8000	8000	8000	NA
pH	S.U.	4.00	4.00	4.00	4.00	NA
pH	S.U.	7.00	7.00	7.00	7.00	NA
pH	S.U.	10.00	10.00	10.00	10.00	NA
ORP	mV	232.0	232.0	232.0	232.0	NA

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219	LaMotte SN 1143-1319
0.0	NTU	0.00	0.00	0.00	NA
10.0	NTU	10.00	10.00	10.00	NA

Notes:

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

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = not used that day

March 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Becky Steever/Katie Pupkiewicz/Peter Argyrakis/Jake Swanson

Instrument Calibration

Date: 3/04/21 Time: 08:00

Parameter	Units	Standard	SmarTROLL SN 518784	SmarTROLL SN 613960	SmarTROLL SN 532229	SmarTROLL SN 519017
DO	% saturation	100	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00	7.00	7.00
pH	S.U.	10.00	10.00	10.00	10.00	10.00
ORP	mV	232.0	232.0	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219	LaMotte SN 1143-1319
0.0	NTU	0.00	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00	10.00

Date: 3/04/21 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 518784	SmarTROLL SN 613960	SmarTROLL SN 532229	SmarTROLL SN 519017
DO	% saturation	100	100	100	100	NA
Conductivity	us/cm	8000	8000	8000	8000	NA
pH	S.U.	4.00	4.00	4.00	4.00	NA
pH	S.U.	7.00	7.00	7.00	7.00	NA
pH	S.U.	10.00	10.00	10.00	10.00	NA
ORP	mV	232.0	232.0	232.0	232.0	NA

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219	LaMotte SN 1143-1319
0.0	NTU	0.00	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00	10.00

Notes:

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

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = not used that day

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052922	**Well ID**	YGWA-2I			**Date**	03/03/2021
Project Location	AP-2		**Weather(°F)**	46.4 degrees F and Clear. The wind is blowing N at 10.3 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	53.45	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	44.45	**Total Depth (ft-bmp)**	63.75	**Water Column(ft)**	19.3	**Gallons in Well**	3.14
MP Elevation	866.25	**Pump Intake (ft-bmp)**	60	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:45	**Well Volumes Purged**	0.44	**Sample ID**	YGWA-2I	**Sampled by**	Becky Steever
Purge Start	09:45	**Gallons Purged**	1.39	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:41						

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)
09:45:05	00:00	50	47.98	8.57	220.70	0.92	1.91	14.0	-54.63
09:50:05	05:00	50	49.25	8.18	215.99	0.24	1.52	13.9	-41.25
09:55:05	10:00	50	49.98	8.22	213.69	2.02	1.19	14.1	-38.95
10:00:05	15:00	50	50.55	7.93	214.06	3.16	1.16	14.0	-20.93
10:05:05	20:00	45	51.1	7.94	213.75	3.06	1.17	13.9	-19.06
10:10:05	25:00	45	51.72	7.92	213.56	3.73	1.22	13.9	-17.89
10:15:05	30:00	45	52.28	7.90	213.59	3.51	1.36	14.0	-12.20
10:20:05	35:00	45	52.89	8.03	212.34	3.71	1.42	14.3	-17.22
10:25:05	40:00	45	53.56	8.05	211.94	3.83	1.54	14.5	-17.13
10:30:05	45:00	45	54.19	8.00	211.59	4.08	1.66	14.7	-14.23
10:35:05	50:00	45	54.63	7.98	211.63	4.34	1.80	14.8	-10.85
10:40:05	55:00	45	54.81	7.97	211.91	5.08	2.00	14.8	-8.63
10:45:05	00:00	45	55.02	7.95	212.20	5.58	2.07	15.2	-5.68
10:50:05	05:00	45	55.28	8.10	210.73	0.01	2.33	15.7	-12.02
10:55:05	10:00	45	55.44	8.01	210.07	1.21	2.22	16.0	-5.06
11:00:05	15:00	45	55.65	7.92	211.30	1.63	2.38	15.9	3.27
11:05:05	20:00	45	55.83	7.98	214.55	0.60	2.36	16.1	-2.80
11:10:05	25:00	45	56.09	7.84	218.12	0.20	2.30	16.1	-0.47
11:15:05	30:00	45	56.29	7.82	219.25	0.00	2.28	16.0	-0.96
11:20:05	35:00	45	56.49	7.85	218.60	0.00	2.06	16.1	-4.21
11:25:05	40:00	45	56.64	7.91	218.64	0.00	1.93	16.4	-7.58
11:30:05	45:00	45	56.89	7.99	219.41	0.00	1.74	16.8	-11.49
11:35:05	50:00	45	57.01	7.93	219.59	0.00	1.64	17.1	-20.04
11:40:05	55:00	45	57.19	7.92	219.70	0.00	1.50	17.6	-36.44

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

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

Comments: La motte stand alone confirmation turbidity readings.
@15:00: 4.58
@20:00: 2.23
@25:00: 2.06
@30:00: 1.07
@35:00: 1.68
@40.00: 1.26
@45:00: 1.51
@50:00: 1.81
@55:00: 1.73
@60:00: 1.64
@65:00: 1.06
@70:00: 0.92
@7500: 0.67
@80:00: 0.7
@85:00: 0.65

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

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
µS/cm = microSiemens per centimeters
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30053437	**Well ID**	YGWC-26I			**Date**	03/03/2021
Project Location	AP-2		**Weather(°F)**	44.1 degrees F and Mostly Cloudy. The wind is blowing N at 8.1 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)	25.54	**Total Depth (ft-bmp)**	69.81	**Water Column(ft)**	44.27	**Gallons in Well**	7.19
MP Elevation	715.91	**Pump Intake (ft-bmp)**	61	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:15	**Well Volumes Purged**	0.15	**Sample ID**	YGWC-26I	**Sampled by**	Katie Pupkiewicz
Purge Start	08:52	**Gallons Purged**	1.08	**Replicate/ Code No.**	DUP-02	**Color**	Clear
Purge End	09:14						

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)
08:52:12	00:00	180	25.81	6.46	329.07	0.00	7.24	13.2	55.01
08:57:12	05:00	180	25.87	6.07	319.43	0.00	2.55	15.8	23.04
09:02:12	10:00	180	25.85	5.97	309.42	0.00	1.65	16.1	96.96
09:07:12	15:00	180	25.89	5.94	310.47	0.00	1.43	16.4	145.93
09:12:12	20:00	180	25.9	5.93	323.42	0.00	1.25	16.2	168.63

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

Comments: LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log
1.19
1.69
0.94
1.14
1.25

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 _____

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30053437	**Well ID**	YGWA-14S			**Date**	03/02/2021
Project Location	AP-2		**Weather(°F)**				
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)	16.71	**Total Depth (ft-bmp)**	34.96	**Water Column(ft)**	18.25	**Gallons in Well**	2.97
MP Elevation	748.76	**Pump Intake (ft-bmp)**	30	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:20	**Well Volumes Purged**	0.36	**Sample ID**	YGWA-14S	**Sampled by**	Katie Pupkiewicz
Purge Start	10:46	**Gallons Purged**	1.06	**Replicate/ Code No.**	DUP-01	**Color**	Clear
Purge End	11:17						

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)
10:56:14	00:00	100	17.23	5.58	1220.33	0.00	1.47	15.0	-73.80
11:01:14	05:00	100	17.18	5.50	1229.41	0.00	1.37	15.6	-61.17
11:06:14	10:00	100	17.17	5.49	1233.85	0.00	1.44	15.6	-43.77
11:11:14	15:00	100	17.19	5.47	1231.60	0.00	1.44	15.5	-32.65
11:16:14	20:00	100	17.17	5.49	1229.86	0.00	1.44	15.6	-26.94

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

Comments: LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log
0.73
0.61
0.70
0.73
0.61

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

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
µS/cm = microSiemens per centimeters
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30053437	**Well ID**	YGWC-28I			**Date**	03/03/2021
Project Location	AP-2		**Weather(°F)**	59.0 degrees F and Clear. The wind is blowing N 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)	29.41	**Total Depth (ft-bmp)**	69.93	**Water Column(ft)**	40.52	**Gallons in Well**	6.58
MP Elevation	717.93	**Pump Intake (ft-bmp)**	64	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:40	**Well Volumes Purged**	0.19	**Sample ID**	YGWC-28I	**Sampled by**	Katie Pupkiewicz
Purge Start	13:08	**Gallons Purged**	1.27	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:37						

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)
13:08:35	00:00	180	30.13	7.09	497.67	0.09	7.91	19.4	201.18
13:13:35	05:00	180	30.67	6.54	478.35	0.10	3.35	20.3	188.95
13:18:35	10:00	140	30.93	6.48	473.68	0.10	1.14	20.6	178.65
13:21:15	12:40	140	30.93	6.61	469.01	0.04	4.70	19.5	198.83
13:26:15	17:40	140	30.89	6.49	459.43	0.05	3.14	19.4	168.32
13:31:15	22:40	140	30.86	6.50	462.02	0.10	1.81	19.5	147.82
13:36:15	27:40	140	30.89	6.51	461.25	0.22	0.95	19.4	134.69

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

Comments: LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log
1.30
0.65
0.68
0.57
0.42

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

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
µS/cm = microSiemens per centimeters
mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30053437	**Well ID**	YGWC-28S			**Date**	03/03/2021
Project Location	AP-2			**Weather(°F)**	53.6 degrees F and Clear. The wind is blowing N at 9.2 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)	27.95	**Total Depth (ft-bmp)**	44.95	**Water Column(ft)**	17	**Gallons in Well**	2.76
MP Elevation	717.95	**Pump Intake (ft-bmp)**	40	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:55	**Well Volumes Purged**	0.28	**Sample ID**	YGWC-28S	**Sampled by**	Katie Pupkiewicz
Purge Start	11:32	**Gallons Purged**	0.77	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:49						

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)
11:32:25	00:00	160	28.35	6.59	420.74	15.45	5.40	18.1	-18.25
11:37:25	05:00	160	28.35	6.57	452.43	1.50	2.42	18.7	-45.78
11:42:25	10:00	160	28.35	6.57	464.65	1.06	2.44	18.9	-55.28
11:47:25	15:00	160	28.35	6.61	470.20	0.32	1.05	19.0	-62.22

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

Comments: LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log
5.64
4.14
2.16
1.48

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

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052922	**Well ID**	YGWA-1D			**Date**	03/03/2021
Project Location	AP-2		**Weather(°F)**	62.4 degrees F and Clear. The wind is blowing NW at 6.9 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)	47.83	**Total Depth (ft-bmp)**	128.85	**Water Column(ft)**	81.02	**Gallons in Well**	13.17
MP Elevation	837.25	**Pump Intake (ft-bmp)**	108	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:25	**Well Volumes Purged**	0.06	**Sample ID**	YGWA-1D	**Sampled by**	Becky Steever
Purge Start	14:03	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:24						

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)
14:03:49	00:00	150	47.9	7.01	126.75	0.00	9.30	15.5	102.99
14:08:49	05:00	150	47.92	7.03	134.23	0.00	5.52	16.4	-12.08
14:13:49	10:00	150	47.96	7.17	156.30	0.00	3.20	16.3	-32.10
14:18:49	15:00	150	47.99	7.12	154.82	0.00	1.95	16.4	-25.57
14:23:49	20:00	150	48.01	7.20	153.08	0.00	1.35	16.5	-21.69

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

Comments: La motte turbidity readings
1403=0.22, 1408= 0.19, 1413=0.19, 1418=0.18, 1423=0.11

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

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052922	**Well ID**	YGWA-1I			**Date**	03/03/2021
Project Location	AP-2		**Weather(°F)**	59.0 degrees F and Clear. The wind is blowing N at 10.3 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)	37.19	**Total Depth (ft-bmp)**	53.6	**Water Column(ft)**	16.41	**Gallons in Well**	2.67
MP Elevation	836.6	**Pump Intake (ft-bmp)**	49	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:13	**Well Volumes Purged**	1.02	**Sample ID**	YGWA-1A	**Sampled by**	Becky Steever
Purge Start	12:35	**Gallons Purged**	2.73	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:31						

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)
12:35:36	00:00	200	38.75	7.48	84.79	0.00	6.96	17.5	-1.92
12:40:36	05:00	200	40.92	7.07	75.47	0.00	1.79	17.3	1.52
12:45:36	10:00	190	41.5	6.64	59.12	0.00	3.30	16.7	36.68
12:50:36	15:00	190	41.78	6.34	56.25	0.00	3.49	16.5	61.44
12:55:36	20:00	190	41.98	6.12	53.98	0.00	4.32	16.4	80.16
13:00:36	25:00	190	42.11	5.92	54.10	0.00	4.92	16.1	94.37
13:05:36	30:00	190	42.28	5.76	54.63	0.00	4.95	15.9	107.56
13:10:36	35:00	190	42.37	5.65	55.25	0.00	4.87	15.7	117.23
13:15:36	40:00	190	42.55	5.57	55.86	0.00	4.79	15.6	123.49
13:20:36	45:00	190	42.68	5.42	56.14	0.00	4.67	15.5	130.89
13:25:36	50:00	150	42.7	5.39	56.27	0.00	4.61	15.5	133.42
13:30:36	55:00	150	42.65	5.38	56.02	0.00	4.66	15.5	135.16

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

Comments: LaMotte turbidity readings (time=NTU)
1310=0.31, 1315=0.22, 1320=0.19, 1325=0.16, 1330=0.10

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: _____

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052922	**Well ID**	YGWA-3D			**Date**	03/03/2021
Project Location	AP-2		**Weather(°F)**	65.7 degrees F and Clear. The wind is blowing N at 12.8 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)	29.28	**Total Depth (ft-bmp)**	134.18	**Water Column(ft)**	104.9	**Gallons in Well**	17.05
MP Elevation	796.78	**Pump Intake (ft-bmp)**	113	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:00	**Well Volumes Purged**	0.05	**Sample ID**	YGWA-3D	**Sampled by**	Becky Steever
Purge Start	15:38	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	16:58						

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)
15:38:19	00:00	200	29.28	8.25	228.79	0.00	8.63	16.7	-63.41
15:43:19	05:00	200	29.28	8.32	226.31	0.00	2.34	16.5	-117.08
15:48:19	10:00	200	29.28	8.42	226.72	0.00	0.85	16.4	-104.03
15:53:19	15:00	200	29.28	8.39	226.67	0.00	0.59	16.3	-94.87

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

Comments: Compressor is struggling with depth and holding pressure. Has not previously been an issue. Flowed at 100 ml/m because of this.

LaMotte turbidity readings (time:NTU)
1538:0.16
1543: 0.11
1548:, 0.15
1553: 0.16

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

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30053437	**Well ID**	YGWA-30I			**Date**	03/01/2021
Project Location	AP-2		**Weather(°F)**	63.1 degrees F and Cloudy. The wind is blowing NW at 5.8 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	49.18	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	43.88	**Total Depth (ft-bmp)**	59.48	**Water Column(ft)**	15.6	**Gallons in Well**	2.53
MP Elevation	762.58	**Pump Intake (ft-bmp)**	54.5	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:25	**Well Volumes Purged**	0.68	**Sample ID**	YGWA-30I	**Sampled by**	Katie Pupkiewicz
Purge Start	15:51	**Gallons Purged**	1.72	**Replicate/ Code No.**		**Color**	Clear
Purge End	16:23						

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)
15:51:20	00:00	200	43.89	6.57	56.00	0.00	8.86	17.0	208.83
15:56:20	05:00	200	43.89	6.14	27.71	0.06	8.09	17.2	193.78
16:01:20	10:00	200	43.91	6.28	48.39	0.00	7.70	17.0	189.09
16:06:20	15:00	200	43.9	5.84	48.75	0.00	7.43	17.1	202.04
16:11:20	20:00	200	43.9	5.76	47.92	0.00	7.34	17.1	208.39
16:16:20	25:00	200	43.91	5.73	47.75	0.00	7.38	17.0	207.81
16:21:20	30:00	200	43.91	5.78	47.97	8.12	7.26	17.0	205.08

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

Comments: LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log
0.00
Turbidity meter ran out of batteries, will replace tomorrow
0.12 taken at the 25 minute mark
0.55

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

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30053437	**Well ID**	YGWC-26S			**Date**	03/02/2021
Project Location	AP-2		**Weather(°F)**	45.5 degrees F and Light Rain. The wind is blowing E at 5.8 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)	24.73	**Total Depth (ft-bmp)**	40.18	**Water Column(ft)**	15.45	**Gallons in Well**	2.51
MP Elevation	716.28	**Pump Intake (ft-bmp)**	37	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:00	**Well Volumes Purged**	0.32	**Sample ID**	YGWC-26I	**Sampled by**	Katie Pupkiewicz
Purge Start	13:34	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:55						

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)
13:34:02	00:00	200	25.7	6.45	357.31	164.92	7.62	15.6	83.80
13:39:02	05:00	100	26.45	5.37	346.24	0.00	2.29	17.4	152.54
13:44:02	10:00	100	26.27	5.37	341.88	0.00	1.79	16.7	193.41
13:49:02	15:00	100	26.24	5.38	343.93	0.00	0.75	16.6	202.53
13:54:02	20:00	100	26.22	5.38	345.14	0.00	0.71	16.6	204.01

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

Comments: LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log
1.37
2.04
1.08
0.99
0.90

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

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30053437	**Well ID**	YGWC-27S			**Date**	03/03/2021
Project Location	AP-2		**Weather(°F)**	63.3 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)	29.6	**Total Depth (ft-bmp)**	40.52	**Water Column(ft)**	10.92	**Gallons in Well**	1.77
MP Elevation	716.52	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:40	**Well Volumes Purged**	0.40	**Sample ID**	YGWC-27S	**Sampled by**	Katie Pupkiewicz
Purge Start	14:19	**Gallons Purged**	0.72	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:38						

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)
14:19:39	00:00	120	29.63	6.50	420.33	11.95	5.80	19.1	73.16
14:24:39	05:00	120	29.69	6.41	421.19	1.06	2.42	19.9	133.08
14:28:04	08:25	120	29.68	6.38	423.88	2.68	1.86	19.9	211.54
14:33:04	13:25	120	29.69	6.36	430.38	2.13	1.19	19.8	175.45
14:38:04	18:25	120	29.69	6.35	433.98	0.48	0.75	19.9	161.75

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

Comments: LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log
3.86
2.99
4.06
2.97
1.69

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 _____

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30053437	**Well ID**	YGWC-27I			**Date**	03/03/2021
Project Location	AP-2		**Weather(°F)**	64.8 degrees F and Clear. The wind is blowing NW at 8.1 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)	29.59	**Total Depth (ft-bmp)**	79.99	**Water Column(ft)**	50.4	**Gallons in Well**	8.19
MP Elevation	716.19	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:40	**Well Volumes Purged**	0.15	**Sample ID**	YGWC-27I	**Sampled by**	Katie Pupkiewicz
Purge Start	15:08	**Gallons Purged**	1.19	**Replicate/ Code No.**		**Color**	Clear
Purge End	15:38						

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)
15:08:24	00:00	200	30.2	6.68	398.50	0.38	4.95	21.6	18.55
15:13:24	05:00	140	30.5	6.48	420.18	0.15	1.47	19.8	-20.86
15:18:24	10:00	140	30.4	6.44	415.79	0.16	1.38	20.4	-11.19
15:23:24	15:00	140	30.45	6.40	337.69	0.13	1.12	19.8	-6.74
15:28:24	20:00	140	30.44	6.41	411.14	0.19	1.24	20.7	-8.07
15:33:24	25:00	140	30.48	6.43	408.88	0.27	1.18	20.7	-7.34
15:38:24	30:00	140	30.48	6.43	406.77	0.22	0.96	20.5	-4.80

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

Comments: LaMotte turbidity meter died at the beginning of purging. The three readings taken five, ten, and fifteen minutes before sampling are as follows:
0.62
0.43
0.79

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

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30053437	**Well ID**	YGWC-29I			**Date**	03/03/2021
Project Location	AP-2		**Weather(°F)**	50.0 degrees F and Clear. The wind is blowing N 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	10:45	**Well Volumes Purged**	0.44	**Sample ID**	YGWC-29I	**Sampled by**	Katie Pupkiewicz
Purge Start	10:23	**Gallons Purged**	0.85	**Replicate/ Code No.**		**Color**	Clear
Purge End	10:39						

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)
10:23:17	00:00	180	28.96	6.72	218.63	0.00	4.89	17.0	81.99
10:28:17	05:00	180	29.11	6.30	220.23	0.00	2.27	17.4	125.52
10:33:17	10:00	180	29.16	6.26	219.90	0.00	1.65	17.5	148.74
10:38:17	15:00	180	29.1	6.27	211.87	0.00	1.44	18.2	153.99

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

Comments: LaMotte turbidity readings taken every five minutes in accordance with VuSitu purge log
1.35
0.68
0.79
0.74

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

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Sampling Form

Project Number	30052922	**Well ID**	YGWA-3I			**Date**	03/03/2021
Project Location	AP-2			**Weather(°F)**	66.2 degrees F and Clear. The wind is blowing NW at 11.4 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)	52.33	**Total Depth (ft-bmp)**	59.05	**Water Column(ft)**	6.72	**Gallons in Well**	1.09
MP Elevation	796.55	**Pump Intake (ft-bmp)**	54	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	17:00	**Well Volumes Purged**	1.27	**Sample ID**	YGWA-3I	**Sampled by**	Becky Steever
Purge Start	16:28	**Gallons Purged**	1.39	**Replicate/ Code No.**	NA	**Color**	Clear
Purge End	16:58						

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)
16:28:09	00:00	250	53.13	8.14	206.85	0.00	7.51	15.6	-29.52
16:33:09	05:00	200	53.82	8.09	223.89	0.00	3.52	15.8	-34.40
16:38:09	10:00	200	53.73	8.07	221.76	0.00	3.34	15.7	-40.21
16:43:09	15:00	200	53.74	8.11	207.23	0.00	1.54	15.7	-50.88
16:48:09	20:00	200	53.74	8.13	200.41	0.00	0.81	15.7	-61.82
16:53:09	25:00	200	53.75	8.13	197.61	0.00	0.67	15.7	-66.37

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

Comments: La motte turbidity readings (time:NTU):
1628=0.18, 1633=0.09, 1638=0.12, 1643=0.10, 1648=0.08, 1653=0.09

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

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
µS/cm = microSiemens per centimeters

mV = millivolts
°F = degrees Fahrenheit
°C = degrees Celsius

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-2I
Person Gauging:	Becky Steever
Date:	2/8/2021
Time:	09:16:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-1D
Person Gauging:	Becky Steever
Date:	2/8/2021
Time:	09:39:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-1S
Person Gauging:	Becky Steever
Date:	2/8/2021
Time:	09:42:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-1I
Person Gauging:	Becky Steever
Date:	2/8/2021
Time:	09:45:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-13S
Person Gauging:	Becky Steever
Date:	2/8/2021
Time:	09:50:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-13I
Person Gauging:	Becky Steever
Date:	2/8/2021
Time:	09:58:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☐	☑	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Sediment is starting to build up on portion of pad. Will need to shovel/clean off.				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-3S
Person Gauging:	Becky Steever
Date:	2/8/2021
Time:	10:02:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-3D
Person Gauging:	Becky Steever
Date:	2/8/2021
Time:	10:18:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-14S
Person Gauging:	Becky Steever
Date:	2/8/2021
Time:	10:25:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☐	☑	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☐	☐	☑
	b	Is the well pad sloped away from the protective casing?	☐	☐	☑
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☐	☑	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☐	☐	☐
		and 2) comply with the applicable regulatory requirements?	☐	☐	☐
7	Corrective actions as needed, by date:				
	Well pad is deeply buried under sediment. Appears to be in sediment flow are.				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-14I
Person Gauging:	Becky Steever
Date:	2/8/2021
Time:	10:42:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☐	☐	☑
	b	Is the well pad sloped away from the protective casing?	☐	☐	☑
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☐	☑	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Well is deeply buried under sediment. Appears to be in the path of sediment flow				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-31S
Person Gauging:	Becky Steever
Date:	2/8/2021
Time:	10:48:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-3I
Person Gauging:	Becky Steever
Date:	2/8/2021
Time:	10:15:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-30I
Person Gauging:	Becky Steever
Date:	2/8/2021
Time:	10:52:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-25I
Person Gauging:	Becky Steever
Date:	2/8/2021
Time:	11:03:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-25S
Person Gauging:	Becky Steever
Date:	2/8/2021
Time:	11:22:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-26S
Person Gauging:	Becky Steever
Date:	2/8/2021
Time:	12:00:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-26I
Person Gauging:	Becky Steever
Date:	2/8/2021
Time:	12:04:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-27I
Person Gauging:	Becky Steever
Date:	2/8/2021
Time:	12:11:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-27S
Person Gauging:	Becky Steever
Date:	2/8/2021
Time:	12:19:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-28I
Person Gauging:	Becky Steever
Date:	2/8/2021
Time:	12:30:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-28S
Person Gauging:	Becky Steever
Date:	2/8/2021
Time:	12:32:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-29I
Person Gauging:	Becky Steever
Date:	2/8/2021
Time:	12:47:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-14S
Person Gauging:	Katie Pupkiewicz
Date:	3/1/2021
Time:	12:04:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☐	☑	☐
	b	Is the well pad sloped away from the protective casing?	☐	☑	☐
	c	Is the well pad in complete contact with the protective casing?	☐	☑	☐
	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)	☐	☑	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☐	☑	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-14I
Person Gauging:	Katie Pupkiewicz
Date:	3/1/2021
Time:	12:08:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☐	☑	☐
	b	Is the well pad sloped away from the protective casing?	☐	☑	☐
	c	Is the well pad in complete contact with the protective casing?	☐	☑	☐
	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)	☐	☑	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☐	☑	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☐	☐	☑
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-30I
Person Gauging:	Katie Pupkiewicz
Date:	3/1/2021
Time:	12:20:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-13S
Person Gauging:	Katie Pupkiewicz
Date:	3/1/2021
Time:	13:52:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-13I
Person Gauging:	Katie Pupkiewicz
Date:	3/1/2021
Time:	13:56:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-31S
Person Gauging:	Katie Pupkiewicz
Date:	3/1/2021
Time:	12:13:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-1S
Person Gauging:	Katie Pupkiewicz
Date:	3/1/2021
Time:	13:46:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-3S
Person Gauging:	Katie Pupkiewicz
Date:	3/1/2021
Time:	12:35:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-25S
Person Gauging:	Katie Pupkiewicz
Date:	3/1/2021
Time:	14:10:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☐	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-25I
Person Gauging:	Katie Pupkiewicz
Date:	3/1/2021
Time:	14:12:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-2I
Person Gauging:	Katie Pupkiewicz
Date:	3/1/2021
Time:	13:39:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☑	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☑	☐	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-3I
Person Gauging:	Katie Pupkiewicz
Date:	3/1/2021
Time:	12:39:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-3D
Person Gauging:	Katie Pupkiewicz
Date:	3/1/2021
Time:	12:42:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-29I
Person Gauging:	Katie Pupkiewicz
Date:	3/1/2021
Time:	14:24:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-28S
Person Gauging:	Katie Pupkiewicz
Date:	3/1/2021
Time:	14:54:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-28I
Person Gauging:	Katie Pupkiewicz
Date:	3/1/2021
Time:	14:55:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☐
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-27S
Person Gauging:	Katie Pupkiewicz
Date:	3/1/2021
Time:	15:01:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-27I
Person Gauging:	Katie Pupkiewicz
Date:	3/1/2021
Time:	15:03:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-26I
Person Gauging:	Katie Pupkiewicz
Date:	3/1/2021
Time:	15:11:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-26S
Person Gauging:	Katie Pupkiewicz
Date:	3/1/2021
Time:	15:10:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-1I
Person Gauging:	Katie Pupkiewicz
Date:	3/1/2021
Time:	13:42:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-1D
Person Gauging:	Katie Pupkiewicz
Date:	3/1/2021
Time:	13:48:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

August 2021 Event

August 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest / Jake Swanson / Ash Willis

Instrument Calibration

Date: 8/18/2021 Time: 07:45

Parameter	Units	Standard	SmarTROLL SN 685774 (Jake Swanson)	SmarTROLL SN 532229 (Mark Chest	SmarTROLL SN 519163 (Ash Willis)
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00	7.00
pH	S.U.	10.00	10.00	10.00	10.00
ORP	mV	235.4	235.4	235.4	235.4

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219
0.0	NTU	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00

Notes:

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

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = not used that day

*half day of field work

August 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest / Jake Swanson / Ash Willis

Instrument Calibration

Date: 8/19/2021 Time: 07:30

Parameter	Units	Standard	SmarTROLL SN 685774 (Jake Swanson)	SmarTROLL SN 532229 (Mark Chest	SmarTROLL SN 519163 (Ash Willis)
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00	7.00
pH	S.U.	10.00	10.00	10.00	10.00
ORP	mV	232.0	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219
0.0	NTU	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00

Date: 8/19/21 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 685774 (Jake Swanson)	SmarTROLL SN 532229 (Mark Chest	SmarTROLL SN 519163 (Ash Willis)
DO	% saturation	100	--	100	100
Conductivity	us/cm	8000	--	8000	8000
pH	S.U.	4.00	--	4.00	4.00
pH	S.U.	7.00	--	7.00	7.00
pH	S.U.	10.00	--	10.00	10.00
ORP	mV	232.0	--	232.0	232.0

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219
0.0	NTU	0.00	--	0.00
10.0	NTU	10.00	--	10.00

Notes:

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

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = not used that day

-- calibration not conducted

August 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest / Jake Swanson / Ash Willis

Instrument Calibration

Date: 8/20/21 Time: 07:45

Parameter	Units	Standard	SmarTROLL SN 685774 (Jake Swanson)	SmarTROLL SN 532229 (Mark Chest	SmarTROLL SN 509072 (Ash Willis)
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00	7.00
pH	S.U.	10.00	10.00	10.00	10.00
ORP	mV	232.0	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219
0.0	NTU	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00

Date: 8/20/21 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 685774 (Jake Swanson)	SmarTROLL SN 532229 (Mark Chest	SmarTROLL SN 509072 (Ash Willis)
DO	% saturation	100	--	100	100
Conductivity	us/cm	8000	--	8000	8000
pH	S.U.	4.00	--	4.00	4.00
pH	S.U.	7.00	--	7.00	7.00
pH	S.U.	10.00	--	10.00	10.00
ORP	mV	232.0	--	232.0	232.0

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219
0.0	NTU	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00

Notes:

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

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = not used that day

-- calibration not conducted

August 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Katie Pupkiewicz/Jake Swanson/Mark Chest

Instrument Calibration

Date: 8/25/21 Time: 07:30

Parameter	Units	Standard	SmarTROLL SN 685774 (Jake Swanson)	SmarTROLL SN 509072 (Katie Pupkiewicz)
DO	% saturation	100	100	100
Conductivity	us/cm	8000	8000	8000
pH	S.U.	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00
pH	S.U.	10.00	10.00	10.00
ORP	mV	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013
0.0	NTU	0.00	0.00
10.0	NTU	10.00	10.00

Date: 8/25/21 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 685774 (Jake Swanson)
DO	% saturation	100	--
Conductivity	us/cm	8000	--
pH	S.U.	4.00	--
pH	S.U.	7.00	--
pH	S.U.	10.00	--
ORP	mV	232.0	--

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013
0.0	NTU	0.00	0.00
10.0	NTU	10.00	10.00

Notes:

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

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = not used that day

*half day of field work for Katie Pupkiewicz

August 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Katie Pupkiewicz/Jake Swanson/Mark Chest

Instrument Calibration

Date: 8/26/21 Time: 07:30

Parameter	Units	Standard	SmarTROLL SN 532229 (Mark Chest	SmarTROLL SN 685774 (Jake Swanson)	SmarTROLL SN 509072 (Katie Pupkiewicz)
DO	% saturation	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000
pH	S.U.	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00	7.00
pH	S.U.	10.00	10.00	10.00	10.00
ORP	mV	232.0	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219
0.0	NTU	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00

Date: 8/26/21 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 532229 (Mark Chest	SmarTROLL SN 685774 (Jake Swanson)
DO	% saturation	100	100	--
Conductivity	us/cm	8000	8000	--
pH	S.U.	4.00	4.00	--
pH	S.U.	7.00	7.00	--
pH	S.U.	10.00	10.00	--
ORP	mV	232.0	232.0	--

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013	LaMotte SN 1505-2219
0.0	NTU	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00

Notes:

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

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = not used that day

*half day of field work for Katie Pupkiewicz

August 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest/Jake Swanson

Instrument Calibration

Date: 8/27/21 Time: 08:00

Parameter	Units	Standard	SmarTROLL SN 685774 (Jake Swanson)	SmarTROLL SN 532229 (Mark Chest
DO	% saturation	100	100	100
Conductivity	us/cm	8000	8000	8000
pH	S.U.	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00
pH	S.U.	10.00	10.00	10.00
ORP	mV	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013
0.0	NTU	0.00	0.00
10.0	NTU	10.00	10.00

Notes:

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

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = not used that day

*half day of field work

September 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest/Jake Swanson

Instrument Calibration

Date: 9/01/21 Time: 08:00

Parameter	Units	Standard	SmarTROLL SN 509072 (Mark Chest)	SmarTROLL SN 685774 (Jake Swanson)
DO	% saturation	100	100	100
Conductivity	us/cm	8000	8000	8000
pH	S.U.	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00
pH	S.U.	10.00	10.00	10.00
ORP	mV	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013
0.0	NTU	0.00	0.00
10.0	NTU	10.00	10.00

Date: 9/01/21 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 509072 (Mark Chest)	SmarTROLL SN 685774 (Jake Swanson)
DO	% saturation	100	100	100
Conductivity	us/cm	8000	8000	8000
pH	S.U.	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00
pH	S.U.	10.00	10.00	10.00
ORP	mV	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013
0.0	NTU	0.00	0.00
10.0	NTU	10.00	10.00

Notes:

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

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = not used that day

September 2021 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest/Jake Swanson

Instrument Calibration

Date: 9/02/21 Time: 08:00

Parameter	Units	Standard	SmarTROLL SN 509072 (Mark Chest)	SmarTROLL SN 685774 (Jake Swanson)
DO	% saturation	100	100	100
Conductivity	us/cm	8000	8000	8000
pH	S.U.	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00
pH	S.U.	10.00	10.00	10.00
ORP	mV	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013
0.0	NTU	0.00	0.00
10.0	NTU	10.00	10.00

Date: 9/02/21 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 509072 (Mark Chest)	SmarTROLL SN 685774 (Jake Swanson)
DO	% saturation	100	100	100
Conductivity	us/cm	8000	8000	8000
pH	S.U.	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00
pH	S.U.	10.00	10.00	10.00
ORP	mV	232.0	232.0	232.0

Turbidity Standard	Units	LaMotte SN 8140-2616	LaMotte SN 3764-4013
0.0	NTU	0.00	0.00
10.0	NTU	10.00	10.00

Notes:

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

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = not used that day

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AP-2
Date:	8/16/2021
Sampler:	Jake Swanson
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWC-26S	8/16/2021	14:46:00	27.20	40.18	--
YGWC-26I	8/16/2021	14:54:00	27.68	69.81	--
YGWC-27I	8/16/2021	14:57:00	31.86	79.99	--
YGWC-27S	8/16/2021	15:26:00	--	40.52	Hit pump at 31.29 - water level may be below pump
YGWC-28I	8/16/2021	15:33:00	31.45	69.93	--
YGWC-28S	8/16/2021	15:35:00	29.82	44.95	--

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AP-2
Date:	8/17/2021
Sampler:	Becky Steever
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWC-29I	8/17/2021	14:43:00	29.14	39.59	--
YGWA-1I	8/17/2021	16:35:00	37.10	53.60	--
YGWA-1D	8/17/2021	16:37:00	48.61	128.85	--
PZ-1S	8/17/2021	16:39:00	32.19	36.34	--
PZ-13I	8/17/2021	16:52:00	39.36	59.22	--
PZ-13S	8/17/2021	16:53:00	35.90	43.79	--
YGWA-2I	8/17/2021	16:58:00	44.25	63.75	--
PZ-3S	8/17/2021	17:09:00	35.43	42.39	--
YGWA-3I	8/17/2021	17:19:00	53.16	59.05	--
YGWA-3D	8/17/2021	17:21:00	29.72	134.18	--
PZ-25I	8/17/2021	17:37:00	43.34	84.58	--
PZ-25S	8/17/2021	17:40:00	41.00	56.80	--

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AP-2
Date:	8/25/2021
Sampler:	Becky Steever
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWA-14S	8/25/2021	13:17:00	--	34.96	--
YGWA-30I	8/25/2021	13:18:00	--	59.48	--
PZ-31S	8/25/2021	13:19:00	--	34.72	--
PZ-14I	8/25/2021	13:19:00	--	50.86	--

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052923	**Well ID**	YGWA-3I			**Date**	08/27/2021
Project Location	AP-2		**Weather(°F)**	77.2 degrees F and Clear. The wind is blowing E at 3.4 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)	53.44	**Total Depth (ft-bmp)**	59.05	**Water Column(ft)**	5.61	**Gallons in Well**	0.91
MP Elevation	796.55	**Pump Intake (ft-bmp)**	54	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:55	**Well Volumes Purged**	1.31	**Sample ID**	YGWA-3I	**Sampled by**	Mark Chest
Purge Start	09:06	**Gallons Purged**	1.19	**Replicate/ Code No.**		**Color**	Clear
Purge End	09:51						

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)
09:06:48	00:00	100	53.44	7.17	285.65	0.46	7.97	23.7	182.29
09:11:48	05:00	100	53.56	7.3	282	0.63	8.12	24.6	180.49
09:16:48	10:00	100	53.6	7.37	280.63	1.32	6.79	25.2	175.81
09:21:48	15:00	100	53.61	7.41	279.24	0.91	4.23	25.4	170.64
09:26:48	20:00	100	53.62	7.27	276.94	1.91	2.24	25.5	171.4
09:31:48	25:00	100	53.66	7.39	265.06	18.77	1.16	24.9	31.97
09:36:48	30:00	100	53.67	7.42	255.11	26.62	0.94	24.5	-39.56
09:41:48	35:00	100	53.67	7.41	245.22	0.91	1.41	25.1	-46.02
09:46:48	40:00	100	53.67	7.46	242.92	0.68	1.48	25.8	-56.69
09:51:48	45:00	100	53.67	7.39	239.73	0.64	1.47	26.5	-58.17

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

Comments: LaMotte turbidity meter readings (Time:NTU) 0911:0.60; 0916:0.57; 0921:0.59; 0926:0.12; 0931:0.29; 0936:0.12; 0941:0.43; 0946:0.18; 0951:0.33

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

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052923	**Well ID**	YGWC-27S			**Date**	08/20/2021
Project Location	AP-2		**Weather(°F)**	Cloudy 81F			
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)	28.99	**Total Depth (ft-bmp)**	40.52	**Water Column(ft)**	11.53	**Gallons in Well**	1.87
MP Elevation	716.52	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:54	**Well Volumes Purged**	0.21	**Sample ID**	YGWC-27S	**Sampled by**	Mark Chest
Purge Start	13:35	**Gallons Purged**	0.40	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:54						

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)
13:35:58	00:00	100	28.99	6.25	316.04	62.29	6.32	26	163.77
13:40:58	05:00	100	29.04	6.17	301.33	4.87	6.2	23.9	171.31
13:45:58	10:00	100	29.04	6.16	309.64	0.78	6.08	25.9	165.83
13:50:58	15:00	100	29.04	6.18	303.31	0.79	6.22	24.9	166.04

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

Comments: LaMotte turbidity meter readings (Time:NTU) 1340:4.84; 1345:4.77; 1350:4.40

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

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052923	**Well ID**	YGWC-27I			**Date**	08/20/2021
Project Location	AP-2		**Weather(°F)**	83.7 degrees F and Partly Cloudy. The wind is blowing W at 3.4 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)	28.95	**Total Depth (ft-bmp)**	79.99	**Water Column(ft)**	51.04	**Gallons in Well**	8.29
MP Elevation	716.19	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:53	**Well Volumes Purged**	3.98	**Sample ID**	YGWC-27I	**Sampled by**	Mark Chest
Purge Start	14:22	**Gallons Purged**	33.03	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:47						

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)
14:22:43	00:00	500	28.95	6.51	310.31	97.18	1.58	24.3	3.54
14:27:43	05:00	500	30.9	6.3	319.54	94.97	0.2	22.2	-12.73
14:32:43	10:00	500	31.22	6.21	319.83	65.63	0.13	21.8	-6.35
14:37:43	15:00	500	31.22	6.09	316.36	0.7	0.12	21.7	3.93
14:42:43	20:00	500	31.22	6.09	315.34	0.7	0.14	22.3	9.48
14:47:43	25:00	500	31.22	6.17	311.28	0.69	0.14	21.8	9.14

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

Comments: LaMotte turbidity meter readings (Time:NTU) 1427:1.07; 1432:0.04; 1437:0.03; 1442:0.10; 1447:0.03

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

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052923	**Well ID**	YGWC-28S			**Date**	08/20/2021
Project Location	AP-2		**Weather(°F)**	It is Cloudy. The wind is blowing N at 3.4 mph. 70			
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)	28.9	**Total Depth (ft-bmp)**	44.95	**Water Column(ft)**	16.05	**Gallons in Well**	2.61
MP Elevation	717.95	**Pump Intake (ft-bmp)**	40	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:24	**Well Volumes Purged**	1.50	**Sample ID**	YGWC-28S	**Sampled by**	Mark Chest
Purge Start	10:28	**Gallons Purged**	3.92	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:48						

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)
10:28:19	00:00	300	33.1	6.27	400.19	227.96	0.22	20.9	-52.16
10:33:19	05:00	300	33.6	6.29	396.59	75.45	0.12	20.4	-70.93
10:38:19	10:00	300	33.62	6.29	408.52	29.7	0.1	20.2	-72.81
10:43:19	15:00	300	33.63	6.3	384.34	18.78	0.09	20.1	-75.22
10:48:19	20:00	300	33.65	6.31	387.31	11.55	0.08	20	-76.38
10:53:19	25:00	300	33.68	6.3	401.05	10.42	0.08	20.1	-77.65
10:58:19	30:00	300	33.68	6.35	387.16	9.58	0.07	20.1	-79.64
11:03:19	35:00	300	33.69	6.33	405.88	6.35	0.08	20.2	-78.68
11:08:19	40:00	300	33.69	6.37	386.51	5.51	0.07	20.2	-81.08
11:12:50	44:31	300	33.69	6.35	403.23	5.74	0.09	20.2	-79.28
11:17:50	49:31	300	33.68	6.38	386.34	5.28	0.07	20.4	-82.06

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

Comments: LaMotte turbidity meter readings (Time:NTU) 1033:26.9; 1038:18.0; 1043:11.38; 1048:8.26; 1053:6.58; 1058:6.54; 1103:4.78; 1108:3.77; 1113:3.95; 1118:4.86

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

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052923	**Well ID**	YGWA-1D			**Date**	08/19/2021
Project Location	AP-2		**Weather(°F)**	It is Clear. The wind is blowing undefined at 0.0 mph. 85 F			
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)	48.9	**Total Depth (ft-bmp)**	128.85	**Water Column(ft)**	79.95	**Gallons in Well**	12.99
MP Elevation	837.25	**Pump Intake (ft-bmp)**	108	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:10	**Well Volumes Purged**	0.13	**Sample ID**	YGWA-1D	**Sampled by**	Mark Chest
Purge Start	10:41	**Gallons Purged**	1.65	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:06						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:41:26	00:00	250	48.81	6.85	0.05	2.5	8.44	25.6	104.2
10:46:26	05:00	250	48.93	6.24	0.06	0.67	2.37	24.3	3.72
10:51:26	10:00	250	48.96	6.19	0.06	7.49	0.81	22.8	-73.93
10:56:26	15:00	250	49.07	6.25	0.06	1.45	0.31	20.9	-77.1
11:01:26	20:00	250	49.14	6.35	0.06	1.62	0.32	20.2	-76.97
11:06:26	25:00	250	49.14	6.32	0.06	1.21	0.38	19.8	-63.04

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

Comments: LaMotte turbidity meter readings (Time:NTU) 1046:7.26; 1051:1.55; 1056:3.40; 1101:2.07; 1106:1.83

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

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052923	**Well ID**	YGWC-29I			**Date**	08/20/2021
Project Location	AP-2		**Weather(°F)**	It is Cloudy. The wind is blowing N/NW at 5.8 mph. 70			
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)	28.1	**Total Depth (ft-bmp)**	39.59	**Water Column(ft)**	11.49	**Gallons in Well**	1.87
MP Elevation	717.39	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:38	**Well Volumes Purged**	1.41	**Sample ID**	YGWC-29I	**Sampled by**	Mark Chest
Purge Start	08:55	**Gallons Purged**	2.64	**Replicate/ Code No.**		**Color**	Clear
Purge End	09:38						

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)
08:55:09	00:00	400	28.1	6.37	167.05	1.48	5.81	22.1	119.94
09:00:09	05:00	400	29.57	5.97	24.5	2.47	0.55	20.8	179.08
09:05:09	10:00	200	30.18	6.05	25.31	6.95	1.3	20.5	213.04
09:10:09	15:00	200	30.26	6.1	33.68	4.35	1.36	21.1	224.18
09:15:09	20:00	200	30.35	6.28	23.75	2.66	0.93	21.1	229.06
09:20:09	25:00	200	30.42	6.15	22.97	0.84	0.61	21.2	231.04
09:25:09	30:00	200	30.49	6.11	22.82	0.61	0.42	21.3	231.95
09:30:09	35:00	200	30.54	6.09	21.76	0.61	0.33	21.3	231.34
09:35:09	40:00	200	30.61	6.07	23.89	0.59	0.31	21.4	230.48

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

Comments: LaMotte turbidity meter readings (Time:NTU) 900:1.55; 905:5.27; 910:4.13; 915:3.13; 920:0.80; 925:0.43; 930:0.25; 0935:0.37

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

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052923	**Well ID**	YGWA-2I			**Date**	08/27/2021
Project Location	AP-2		**Weather(°F)**	It is Mostly Cloudy. The wind is blowing SE at 8.1 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	53.45	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	44.55	**Total Depth (ft-bmp)**	63.75	**Water Column(ft)**	19.2	**Gallons in Well**	3.12
MP Elevation	866.25	**Pump Intake (ft-bmp)**	60	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:33	**Well Volumes Purged**	0.25	**Sample ID**	YGWA-2I	**Sampled by**	Mark Chest
Purge Start	10:42	**Gallons Purged**	0.79	**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)
10:42:33	00:00	100	44.55	7.19	198.88	40.51	5.71	22.3	57.36
10:47:33	05:00	100	47.43	6.7	208.3	0.64	1.56	21.7	20.98
10:52:33	10:00	100	47.6	6.66	204.76	3.98	1.54	22.2	33.34
10:57:33	15:00	100	48.74	6.7	202.25	16.68	1.38	21.4	38.11
10:59:49	17:16	50	48.58	6.73	208.83	1.32	2.44	22.2	40.57
11:04:49	22:16	50	48.65	6.82	207.37	1.4	1.69	23.5	33.34
11:09:49	27:16	50	48.75	6.99	207.26	4.61	1.55	24.4	24.17
11:14:49	32:16	50	48.79	7.11	206.88	8.94	1.49	25.1	19.13
11:19:49	37:16	50	48.85	7.14	205.59	20.32	1.46	25.5	19.49
11:24:49	42:16	50	48.97	7.16	204.48	40	1.43	25.7	19.81

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

Comments: LaMotte turbidity meter readings (Time:NTU) 1047:0.71; 1052:0.48; 1057:1.27; 1102:0.73; 1107:0.63; 1110:1.20; 1115:1.57; 1120:0.86; 1125:0.72
Historically low recharge well pumped at 50 ml per minute.

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

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052923	**Well ID**	YGWA-3D			**Date**	08/19/2021
Project Location	AP-2		**Weather(°F)**	89.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 5.8 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)	29.92	**Total Depth (ft-bmp)**	134.18	**Water Column(ft)**	104.26	**Gallons in Well**	16.94
MP Elevation	796.78	**Pump Intake (ft-bmp)**	113	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:45	**Well Volumes Purged**	0.06	**Sample ID**	YGWA-3D	**Sampled by**	Mark Chest
Purge Start	13:49	**Gallons Purged**	1.00	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:05						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:49:50	00:00	250	29.92	5.43	0.05	0.83	1.42	29.9	25.4
13:54:50	05:00	250	30.1	5.07	0.06	0.73	0.45	24.4	-49.69
13:59:50	10:00	250	30.1	5.21	0.06	0.8	0.4	23.2	-39.01
14:04:50	15:00	250	30.1	5.34	0.06	0.66	0.49	22.8	-48.65

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

Comments: LaMotte turbidity meter readings (Time:NTU) 1355:0.67; 1400:0.84; 1405:0.73

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

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052922	**Well ID**	YGWC-26I			**Date**	08/20/2021
Project Location	AP-2		**Weather(°F)**	It is Cloudy. The wind is blowing undefined at 0.0 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)	26.02	**Total Depth (ft-bmp)**	69.81	**Water Column(ft)**	43.79	**Gallons in Well**	7.12
MP Elevation	715.91	**Pump Intake (ft-bmp)**	61	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:39	**Well Volumes Purged**	0.17	**Sample ID**	YGWC-26I	**Sampled by**	Jake Swanson
Purge Start	08:49	**Gallons Purged**	1.19	**Replicate/ Code No.**	AP-2-DUP-1	**Color**	Clear
Purge End	09:35						

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)
08:49:51	00:00	100	26.02	6.88	353.64	2.95	7.26	23.1	178.83
08:54:51	05:00	100	26.22	6.2	333.89	1.59	3.61	22.1	28.77
08:59:51	10:00	100	26.22	5.88	327.43	1.03	1.48	21.7	22.75
09:04:51	15:00	100	26.2	5.83	334.26	0.94	0.74	21.5	36.5
09:09:51	20:00	100	26.2	5.82	329.01	0.91	0.65	21.6	52.41
09:14:51	25:00	100	26.2	5.84	328.49	0.89	0.5	21.6	68.42
09:19:51	30:00	100	26.2	5.81	327.53	0.9	0.56	21.6	80.27
09:24:51	35:00	100	26.2	5.81	325.2	0.88	0.43	21.6	89.59
09:29:51	40:00	100	26.2	5.8	326.62	0.9	0.42	21.7	97.29
09:34:51	45:00	100	26.2	5.78	325.32	0.88	0.37	21.8	103.71

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

Comments: Lamotte turbidity readings(Time :NTU) 0854:1.23; 0859:0.98; 0904:0.92; 0909:0.88; 0914:0.76; 0919:0.64; 0924:0.91; 0929:0.76; 0934:0.85

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

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052922	**Well ID**	YGWC-26S			**Date**	08/19/2021
Project Location	AP-2		**Weather(°F)**	86.9 degrees F and Partly Cloudy. The wind is blowing N/NW 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)	26.57	**Total Depth (ft-bmp)**	40.18	**Water Column(ft)**	13.61	**Gallons in Well**	2.21
MP Elevation	716.28	**Pump Intake (ft-bmp)**	37	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:25	**Well Volumes Purged**	0.49	**Sample ID**	YGWC-26S	**Sampled by**	Jake Swanson
Purge Start	15:32	**Gallons Purged**	1.09	**Replicate/ Code No.**	AP-2-FB-1	**Color**	Clear
Purge End	16:17						

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)
15:32:26	00:00	100	26.57	4.81	275.33	1.06	5.04	22.3	232.42
15:37:26	05:00	100	27.37	4.79	276.33	1.19	2.48	22.2	238.18
15:42:26	10:00	100	27.38	4.84	277.74	1.21	1.67	22.6	239.23
15:47:26	15:00	100	27.34	4.91	278.39	1.19	1.37	23.1	237.27
15:51:39	19:13	100	27.28	4.97	279.02	1.27	1.21	23.2	280.75
15:56:39	24:13	100	27.2	5.05	278.9	1.3	0.98	23.4	255.72
15:58:57	26:31	100	27.18	5.06	279.18	1.26	0.94	23.3	280.25
16:03:57	31:31	100	27.17	5.1	278.68	1.29	0.86	23.3	264.26
16:08:38	36:12	100	27.16	5.11	278.06	1.23	0.83	23.3	281.04
16:13:38	41:12	100	27.15	5.12	278.61	1.27	0.83	23.2	271.27

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

Comments: Lamotte turbidity readings (Time:NTU) 0854:0.92; 0859:0.64; 0904:0.66; 0909:0.48; 0914:0.51; 0919:0.36; 0924:0.32; 0929:0.28; 0934:0.28

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

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052922	**Well ID**	YGWA-30I			**Date**	08/19/2021
Project Location	AP-2		**Weather(°F)**	87.8 degrees F and Mostly Cloudy. The wind is blowing W at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	49.18	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	44.35	**Total Depth (ft-bmp)**	59.48	**Water Column(ft)**	15.13	**Gallons in Well**	2.46
MP Elevation	762.58	**Pump Intake (ft-bmp)**	54.5	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:20	**Well Volumes Purged**	0.25	**Sample ID**	YGWA-30I	**Sampled by**	Jake Swanson
Purge Start	11:41	**Gallons Purged**	0.61	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:05						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:41:37	00:00	100	44.35	6.46	42.18	4.33	7.38	30.1	144.69
11:46:37	05:00	100	44.36	5.98	41.75	3.95	6.6	30.8	164.16
11:50:41	09:04	100	44.36	5.86	40.51	3.99	7.19	28.5	186.69
11:55:41	14:04	100	44.36	5.45	40.56	4.24	7.6	28.1	207.97
11:59:50	18:13	100	44.36	5.38	40.6	4.5	7	28.3	235.93
12:04:50	23:13	100	44.36	5.43	40.22	4.38	7.43	28	225.78

Constituent Sampled	Container	Number	Preservative
Dissolved Metals	500 mL Plastic	1	None
Chloride	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	1	HNO3

Comments: Lamotte turbidity readings (Time:NTU) 1146:1.01; 1150:0.92; 1155:0.88; 1159:0.85; 1204:0.82

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

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052922	**Well ID**	YGWA-14S			**Date**	08/19/2021
Project Location	AP-2		**Weather(°F)**	It is Clear. The wind is blowing undefined at 0.0 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)	19.94	**Total Depth (ft-bmp)**	34.96	**Water Column(ft)**	15.02	**Gallons in Well**	2.44
MP Elevation	748.76	**Pump Intake (ft-bmp)**	30	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:00	**Well Volumes Purged**	1.43	**Sample ID**	YGWA-14S	**Sampled by**	Jake Swanson
Purge Start	08:33	**Gallons Purged**	3.50	**Replicate/ Code No.**	UP-DUP-2	**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)
08:33:42	00:00	100	19.94	7.35	112.64	1.55	7.91	25.2	139.96
08:38:42	05:00	100	22.53	7.33	152.5	2.32	8.18	24.5	159.06
08:43:42	10:00	100	23.03	7.32	86.92	1.3	8.38	24.2	161.88
08:48:42	15:00	100	23.66	7.34	115.54	1.3	8.3	24.4	158.97
08:53:42	20:00	100	24.16	7.41	120.23	1.25	8.15	24.7	156.98
08:58:42	25:00	100	24.63	7.44	116.36	1.35	8.1	24.8	156.92
09:03:42	30:00	100	25.1	7.41	121.53	1.31	8.07	25	158.81
09:08:42	35:00	100	25.56	7.4	119.22	1.35	7.99	25.3	162.84
09:13:42	40:00	100	25.94	7.42	119.08	1.47	7.94	25.6	166.73
09:18:42	45:00	100	26.54	7.44	119.74	1.49	7.89	26	171.24
09:23:42	50:00	100	27.12	7.41	119.12	1.46	7.84	26.2	173.04
09:28:42	55:00	100	27.28	7.33	119.6	1.52	7.8	26.3	173.96
09:33:42	00:00	100	27.66	7.32	118.36	1.66	7.73	26.7	174.84
09:38:42	05:00	90	28.13	7.39	118.43	1.85	7.64	27.3	174.62
09:43:42	10:00	90	28.38	7.42	111.11	1.97	7.56	27.9	174.46
09:48:42	15:00	90	28.79	7.44	110.31	1.98	7.55	27.9	174.55
09:53:42	20:00	90	29.21	7.45	108.54	2.07	7.52	28.3	174.08
09:58:42	25:00	90	29.54	7.46	106.64	2.29	7.43	28.9	172.91
10:03:42	30:00	90	29.97	7.45	108.64	2.44	7.36	29.6	171.24
10:08:42	35:00	90	30.31	7.45	109.66	2.65	7.33	30	170.03
10:13:42	40:00	90	30.57	7.45	108.86	2.83	7.23	30.6	168.68
10:18:42	45:00	90	30.64	7.45	109.44	3.01	7.17	31.1	167.43
10:23:42	50:00	90	30.78	7.45	162.03	3.12	7.19	31.2	168.92
10:28:42	55:00	90	30.79	7.41	362.67	4.34	6.4	31	167.22
10:33:42	00:00	90	30.85	7.45	376.64	5.02	5.38	30.1	165.56
10:38:42	05:00	90	30.85	7.38	384.68	3.52	5.09	30.5	163.96
10:43:42	10:00	90	30.85	7.3	388.21	3.45	4.47	30.9	162.75
10:48:42	15:00	90	30.85	7.32	392.72	3.16	4.57	32.4	159.23
10:53:42	20:00	90	30.85	7.32	393.37	3.14	4.64	32.7	160.15

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

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Comments: Lamotte turbidity readings (Time:NTU) 0838:1.77; 0843:1.81; 0848:2.12; 0853:1.12; 0858:1.33; 0903:1.22; 0908:1.01; 0913:1.45; 0918:3.22; 0923:2.01; 0928:3.22; 0933:3.45; 0938:4.11; 0943:3.98; 0948:4.21; 0953:4.02; 0958:4.08; 1003:4.08; 1008:4.13; 1013:4.17; 1018:4.21; 1023:4.20; 1028:4.22; 1033:4.30; 1038:4.27; 1043:4.29; 1048:4.35; 1053:4.24

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

ARCADIS Design & Consultancy for natural and built assets

Project Number	30052923	**Well ID**	YGWA-1I			**Date**	08/19/2021
Project Location	AP-2		**Weather(°F)**	84F			
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)	37.2	**Total Depth (ft-bmp)**	53.6	**Water Column(ft)**	16.4	**Gallons in Well**	2.66
MP Elevation	836.6	**Pump Intake (ft-bmp)**	49	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:49	**Well Volumes Purged**	0.61	**Sample ID**	YGWA-1I	**Sampled by**	Mark Chest
Purge Start	11:45	**Gallons Purged**	1.61	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:46						

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)
11:45:32	00:00	100	37.4	6.81	0.06	0.75	7.55	23.8	9.35
11:50:32	05:00	100	37.9	7.07	27.3	0.72	5.87	23	29.52
11:55:32	10:00	100	38.1	6.51	13.15	0.65	5.93	22.4	28.53
12:00:32	15:00	100	38.54	6.58	19.27	1.31	2.48	23	-39.32
12:05:32	20:00	100	39	6.51	14.16	0.87	0.81	20.7	-9.61
12:10:32	25:00	100	39.54	6.65	59.94	1.07	0.96	22.4	-4.95
12:15:32	30:00	100	40.63	6.09	10.68	3.27	1.53	20.3	36.9
12:20:32	35:00	100	40.9	6.09	7.95	3.58	3.38	20.4	56.62
12:25:32	40:00	100	41.67	6.2	7.04	3.68	4.38	19.6	86.26
12:26:35	41:03	100	42.2	6.13	18.93	0.62	5.29	19.5	88.12
12:31:35	46:03	100	42.43	6.21	9.75	0.74	4.76	19.7	104.31
12:36:35	51:03	100	42.53	6.32	9.18	0.85	4.66	20	111.33
12:41:35	56:03	100	42.68	6.29	9.84	0.97	4.54	20.6	113.89
12:46:35	01:03	100	42.73	6.38	9.55	1.32	4.51	21.2	117.16

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

Comments: LaMotte turbidity meter readings (Time:NTU) 1150:3.40; 1115:2.90; 1200:2.09; 1205:1.42; 1210:0.71; 1215:0.86; 1220:0.63; 1225:0.63; 1230:0.57; 1235:0.58; 1240:0.81; 1245:0.73

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

ARCADIS Design & Consultancy for natural and built assets

Updated : 9/20/2021 12:25:01 PM -

Project Number	30052923	**Well ID**	YGWC-28I			**Date**	08/20/2021
Project Location	AP-2		**Weather(°F)**	77.0 degrees F and Light Drizzle. The wind is blowing undefined at 0.0 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)	29.71	**Total Depth (ft-bmp)**	69.93	**Water Column(ft)**	40.22	**Gallons in Well**	6.54
MP Elevation	717.93	**Pump Intake (ft-bmp)**	64	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:29	**Well Volumes Purged**	0.36	**Sample ID**	YGWC-28I	**Sampled by**	Mark Chest
Purge Start	11:56	**Gallons Purged**	2.38	**Replicate/ Code No.**	AP-2-DUP-1	**Color**	Clear
Purge End	12:26						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:56:48	00:00	300	29.71	6.3	0.05	0.72	7.55	26.6	49.43
12:01:48	05:00	300	33.6	6.25	0.06	0.58	7.36	24.9	87.64
12:06:48	10:00	300	33.48	6.3	0.06	0.61	6.86	24.9	97.57
12:11:48	15:00	300	33.4	6.32	0.16	0.52	1.61	24.4	102.49
12:16:48	20:00	300	33.44	6.29	0.06	0.52	1.72	24.3	107.72
12:21:48	25:00	300	33.4	6.31	0.06	0.49	1.74	24.2	108.53
12:26:48	30:00	300	33.48	6.23	0.06	0.51	1.72	24.2	115.82

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

Comments: LaMotte turbidity meter readings (Time:NTU) 1201:1.60; 1206:0.37; 1211:0.14; 1216:0.06; 1221:0.09; 1226:0.12

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 Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-14S
Person Gauging:	Becky Steever
Date:	8/25/2021
Time:	13:17:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-31S
Person Gauging:	Becky Steever
Date:	8/25/2021
Time:	13:19:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-14I
Person Gauging:	Becky Steever
Date:	8/25/2021
Time:	13:19:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☐	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-13I
Person Gauging:	Becky Steever
Date:	8/17/2021
Time:	16:52:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Clear vegetation				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-29I
Person Gauging:	Becky Steever
Date:	8/17/2021
Time:	14:43:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☐	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☐
	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)	☐	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-2I
Person Gauging:	Becky Steever
Date:	8/17/2021
Time:	16:58:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☑	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Well was redeveloped prior to groundwater sampling on August 18 and 19, 2021.				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-13S
Person Gauging:	Becky Steever
Date:	8/17/2021
Time:	16:53:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Clear vegetation				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-26S
Person Gauging:	Jake Swanson
Date:	8/16/2021
Time:	14:46:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☐	☑	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Trim grass around well pad				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-26I
Person Gauging:	Jake Swanson
Date:	8/16/2021
Time:	14:54:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☐	☑	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Trim grass around well pad				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-28I
Person Gauging:	Jake Swanson
Date:	8/16/2021
Time:	15:33:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☐	☑	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Trim grass around well pad				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-28S
Person Gauging:	Jake Swanson
Date:	8/16/2021
Time:	15:35:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☐	☑	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-27S
Person Gauging:	Jake Swanson
Date:	8/16/2021
Time:	15:26:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☐	☑	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Trim grass around well pad				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-27I
Person Gauging:	Jake Swanson
Date:	8/16/2021
Time:	14:57:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☐	☑	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Trim grass around well pad				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-25S
Person Gauging:	Becky Steever
Date:	8/17/2021
Time:	17:40:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☐	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-25I
Person Gauging:	Becky Steever
Date:	8/17/2021
Time:	17:37:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-1S
Person Gauging:	Becky Steever
Date:	8/17/2021
Time:	16:39:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-1D
Person Gauging:	Becky Steever
Date:	8/17/2021
Time:	16:37:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☐	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-3I
Person Gauging:	Becky Steever
Date:	8/17/2021
Time:	17:19:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-3D
Person Gauging:	Becky Steever
Date:	8/17/2021
Time:	17:21:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-1I
Person Gauging:	Becky Steever
Date:	8/17/2021
Time:	16:35:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-3S
Person Gauging:	Becky Steever
Date:	8/17/2021
Time:	17:09:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☑
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-30I
Person Gauging:	Becky Steever
Date:	8/25/2021
Time:	13:18:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	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)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☐	☐	☑
	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)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Appendix B

Analytical Lab and Data Validation Reports (February, March, and August 2021)

February 2021

ARCADIS Design & Consultancy for natural and built assets

Georgia Power Co. – Plant Yates

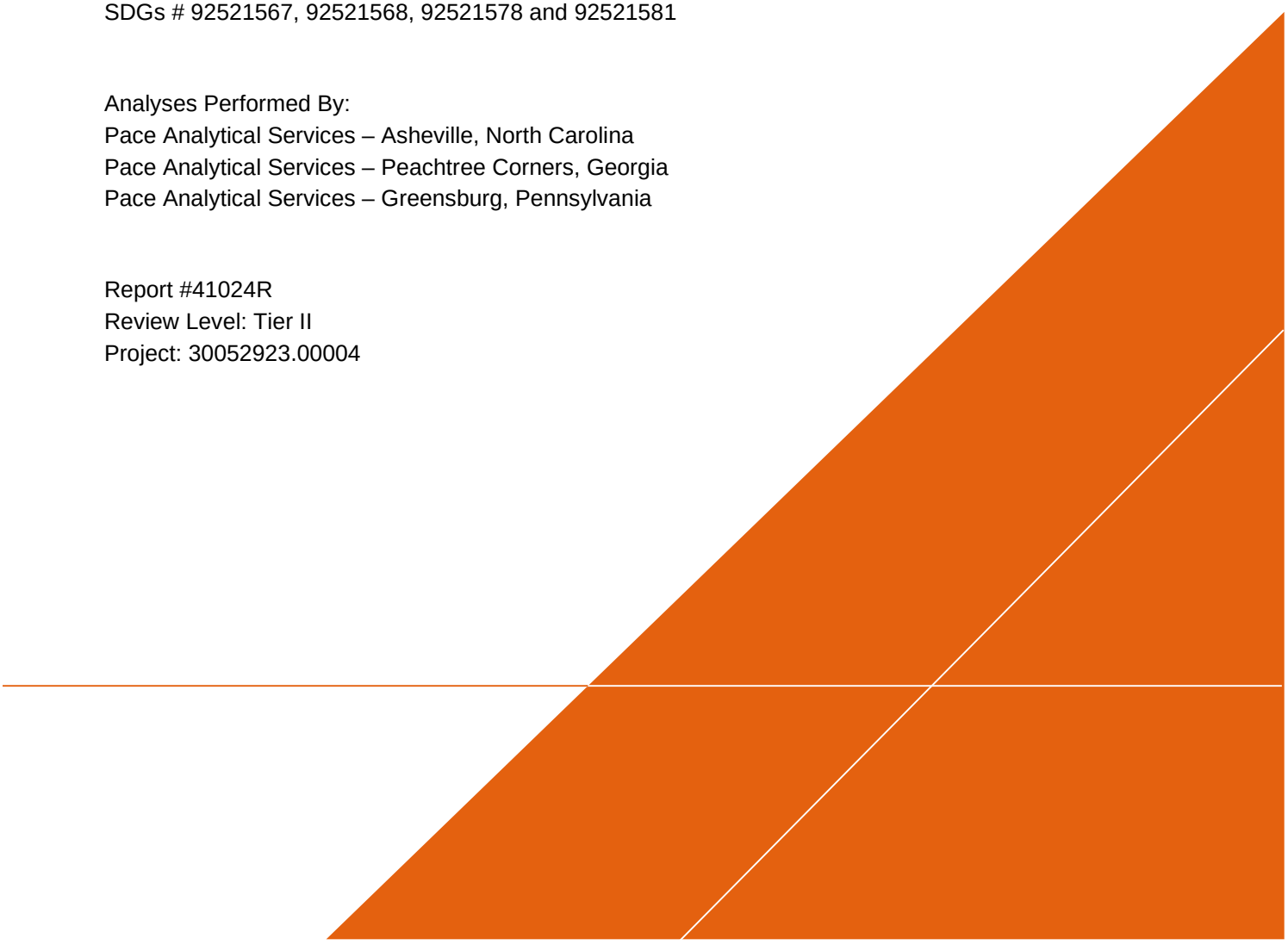
DATA REVIEW

Metals, Radium, and General Chemistry Analyses

SDGs # 92521567, 92521568, 92521578 and 92521581

Analyses Performed By:
Pace Analytical Services – Asheville, North Carolina
Pace Analytical Services – Peachtree Corners, Georgia
Pace Analytical Services – Greensburg, Pennsylvania

Report #41024R
Review Level: Tier II
Project: 30052923.00004



SUMMARY

This data quality assessment summarizes the review of Sample Delivery Groups (SDGs) # 92521567, 92521568, 92521578 and 92521581 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:

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
						RAD	MET	GEN CHEM
92521567 92521578	YGWC-26S	92521567-4 92521578-4	Water	02/10/21		X	X	X
	YGWC-26I	92521567-5 92521578-5	Water	02/10/21		X	X	X
	YGWC-27S	92521567-6 92521578-6	Water	02/10/21		X	X	X
	YGWC-27I	92521567-7 92521578-7	Water	02/10/21		X	X	X
	DUP-2	92521567-8 92521578-8	Water	02/10/21	YGWC-26I	X	X	X
	YGWC-28I	92521567-9 92521578-9	Water	02/11/21		X	X	X
	YGWC-28S	92521567-12 92521578-12	Water	02/12/21		X	X	X
	YGWC-29I	92521567-13 92521578-13	Water	02/12/21		X	X	X
	EB-02	92521567-14 92521578-14	Water	02/12/21		X	X	X
92521568 92521581	YGWA-5D	92521568-1 92521581-1	Water	02/08/21		X	X	X
	DUP-01	92521568-2 92521581-2	Water	02/08/21	YGWA-5D	X	X	X
	YGWA-5I	92521568-3 92521581-3	Water	02/08/21		X	X	X
	YGWA-39	92521568-4 92521581-4	Water	02/10/21		X	X	X
	YGWA-40	92521568-5 92521581-5	Water	02/10/21		X	X	X

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
						RAD	MET	GEN CHEM
92521568 92521581	FB-01	92521568-6 92521581-6	Water	02/10/21		X	X	X
	YGWA-20S	92521568-7 92521581-7	Water	02/09/21		X	X	X
	YGWA-4I	92521568-8 92521581-8	Water	02/09/21		X	X	X
	YGWA-17S	92521568-9 92521581-9	Water	02/09/21		X	X	X
	YGWA-18S	92521568-10 92521581-10	Water	02/09/21		X	X	X
	YGWA-18I	92521568-11 92521581-11	Water	02/09/21		X	X	X
	YGWA-21I	92521568-12 92521581-12	Water	02/09/21		X	X	X
	YGWA-3I	92521568-13 92521581-13	Water	02/10/21		X	X	X
	YGWA-3D	92521568-14 92521581-14	Water	02/10/21		X	X	X
	YGWA-30I	92521568-15 92521581-15	Water	02/11/21		X	X	X
	FB-01 (021121)	92521568-16 92521581-16	Water	02/11/21		X	X	X
	EB-01 (021121)	92521568-17 92521581-17	Water	02/11/21		X	X	X
	EB-02 (021021)	92521568-1 92521578-1	Water	02/10/21		X	X	X
	DUP-1	92521567-3 92521578-3	Water	02/10/21	YGWA-14S	X	X	X
	YGWA-14S	92521578-2 92521581-2	Water	02/10/21		X	X	X
	YGWA-1I	92521578-10 92521581-10	Water	02/12/21		X	X	X
	YGWA-1D	92521578-11 92521581-11	Water	02/12/21		X	X	X
	YGWA-2I	92521572-02 92521583-02	Water	02/10/21		X	X	X

Notes:

1. Metals were performed by Pace Analytical Services – Peachtree Corners, Georgia.

2. Anions (fluoride) 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 is the evaluation of 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 (COC) 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, 9315, and 9320; Standard Method (SM) SM4500-H+ B 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 National Functional Guidelines for Inorganic Superfund Methods Data Review (January2017).

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 reported sample detection 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 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 associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (B) of data. 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-30I	Lead (FB)	Detected sample results <RL and <BAL	“UB” at the RL
YGWA-20S YGWA-21I	Antimony (MB)	Detected sample results <RL and <BAL	“UB” at the RL

Note:

EB = Equipment blank

RL = Reporting limit

MB = Method Blank

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 performed on samples YGWA-40, YGWC-28I and YGWA-1D exhibited recoveries and RPDs 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 RPD.

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-26I / DUP-2	Barium	0.060	0.062	3.3%
	Chromium	0.00065 J	0.00068 J	AC
	Lead	0.000051 J	0.000049 J	AC
	Lithium	0.0067 J	0.0073 J	AC
	Selenium	0.0026 J	0.0024 J	AC
YGWA-5D / DUP-01	Barium	0.0079 J	0.020	AC
	Lead	0.00013 J	0.0050 U	AC
	Lithium	0.0063 J	0.0031 J	AC
	Molybdenum	0.0011 J	0.010 U	AC

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YGWA-14S / DUP-1	Barium	0.0078 J	0.0078 J	AC
	Beryllium	0.00019 J	0.000019 J	AC
	Lead	0.000048 J	0.0050 U	AC

Note:

AC = Acceptable

The RPD between the parent samples and the field duplicate samples 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	
Field/Lab Duplicate (RPD)		X		X	
Reporting Limit Verification		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
Fluoride 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 performed on samples YGWA-40, YGWC-28I and YGWA-1D for the fluoride analysis exhibited recoveries and RPDs 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.

Laboratory duplicate analysis was not performed using a sample from this SDG.

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-26I / DUP-2	Fluoride	0.050 J	0.10 U	AC
YGWA-5D / DUP-01	Fluoride	0.055 J	0.10 U	AC
YGWA-14S / DUP-1	Fluoride	0.10 U	0.10 U	AC

Notes:

AC = Acceptable

The RPD between the parent samples and the field duplicate samples 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 and 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 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	
Field/Lab Duplicate (RPD)		X		X	
Dilution Factor		X		X	
Moisture Content	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 reporting limit (RL) of 1 pCi/L.

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 minimum detectable concentration (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*

* = 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.

x_0 = measured concentration of the unspiked sample.

c = spike concentration added.

$u^2(x)$, $u^2(x0)$, $u^2(c)$ = 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.

The MS/MSD performed on sample YGWC-28I exhibited recoveries and RPDs within the control limits.

The MS/MSD performed on samples YGWC-28I and YGWA-1D exhibited recoveries and RPDs within the control limits.

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.

A laboratory duplicate was not included in the data package.

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:

For all analyses in soil matrices, 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 analysis is used to assess the overall precision of the field sampling procedures and analytical method. For results greater than five times the MDC, a control limit of 35 percent for water matrices is applied to the RPD between the parent and field duplicate sample results. If the parent and field duplicate sample results are less than five times the MDC, for water matrices a control limit of two times the MDC is applied to the difference between the results.

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

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YGWC-26I / DUP-2	Radium-226	0.240 +/- 0.141	0.209 +/- 0.140	AC
	Radium-228	0.273 +/- 0.374	0.0571 +/- 0.352	
	Total Radium	0.513 +/- 0.515	0.209 +/- 0.492	
YGWA-5D / DUP-01	Radium-226	2.30 +/- 0.514	0.171 +/- 0.133	AC
	Radium-228	0.591 +/- 0.501	0.0142 +/- 0.351	
	Total Radium	2.89 +/- 1.02	0.185 +/- 0.484	
YGWA-14S / DUP-1	Radium-226	0.173 +/- 0.123	0.0865 +/- 0.0955	AC
	Radium-228	0.180 +/- 0.339	0.528 +/- 0.390	
	Total Radium	0.353 +/- 0.462	0.615 +/- 0.486	

Notes:

AC = Acceptable

The RPD between the parent samples and the field duplicate samples 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% to110% 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-26S – Radium 226, Radium 228 and Total Radium
- YGWC-26I – Radium-228 and Total Radium
- YGWC-27S – Radium 226, Radium 228 and Total Radium
- DUP-2 – Radium 226, Radium 228 and Total Radium
- YGWC-28I - Radium 226
- YGWC-28S – Radium 228 and Total Radium
- YGWC-29I – Radium 228
- EB-02 (021221) - Radium 226, Radium 228 and Total Radium
- YGWA-5D – Radium 228
- DUP-01 – Radium 226, Radium 228 and Total Radium
- YGWA-5I – Radium 228 and Total Radium
- YGWA-39 - Radium 228 and Total Radium
- YGWA-40 - Radium 228 and Total Radium
- FB-01 - Radium 226, Radium 228 and Total Radium
- YGWA-20S - Radium 226, Radium 228 and Total Radium
- YGWA-4 - Radium 228 and Total Radium
- YGWA-17S - Radium 226, Radium 228 and Total Radium
- YGWA-18S - Radium 226, Radium 228 and Total Radium
- YGWA-18I - Radium 226, Radium 228 and Total Radium
- YGWA-21I – Radium 228
- YGWA-30I - Radium 226, Radium 228 and Total Radium
- FB-01 - Radium 226, Radium 228 and Total Radium

- EB-01 - Radium 226, Radium 228 and Total Radium
- EB-02 - Radium 226, Radium 228 and Total Radium
- DUP-1 - Radium 226, Radium 228 and Total Radium
- YGWA-14S - Radium 226, Radium 228 and Total Radium
- YGWA-1I - Radium 228 and Total Radium
- YGWA-1D - Radium 228 and Total Radium
- YGWA-2I - 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	
Gas-Flow Proportional System					
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)		X		X	
Laboratory Control Sample Duplicate (LCSD)		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	
Field/Lab Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

VALIDATION PERFORMED BY: Rachelle Borne

SIGNATURE: 

DATE: May 13, 2021

PEER REVIEW: Jennifer Singer

DATE: May 18, 2021

CHAIN OF CUSTODY / DATA QUALIFIER SUMMARY TABLE

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CDC 2

Section A
Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Atlanta, GA 30114
Email:
Phone: (770)384-6526 Fax:
Requested Due Date:

Section B
Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates AP-2
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	92521567
1	~~YGWA-4I~~	WT																	X	X	X		-
2	~~YGWA-4S~~	WT																	X	X	X		-
3	YGWA-2I	WT																	X	X	X		-
4	~~YGWA-3I~~	WT																	X	X	X		-
5	YGWC-3D EB-02	WT		02/10/21	1130			4											X	X	X		-
6	YGWA-14S	WT		02/10/21	0850			4											X	X	X		pH: 5.35
7	~~YGWA-39I~~ Dup-1	WT		02/10/21	—			4											X	X	X		~~pH: 5.18~~
8	YGWC-26S	WT		02/10/21	1000			4											X	X	X		pH: 5.18
9	YGWC-26I	WT		02/10/21	1100			4											X	X	X		pH = 5.96
10	YGWC-27S	WT		02/10/21	1210			4											X	X	X		pH: 6.21
11	YGWC-27I	WT		02/10/21	1315			4											X	X	X		pH: 6.89
12	~~YGWC-28S~~ Dup-2	WT		02/10/21	—			4											X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
				Charles Hanby	2/10/21	1710	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Peter Argyrakis
SIGNATURE of SAMPLER:
DATE Signed: 02/10/2021

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

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COC 2

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Section B
Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates AP-2
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

ITEM #	SAMPLE ID	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	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	9252166
13	YGWC-28I (021121)	WT		2/11/21	0940		1224												x	x	x		pH=6.57 MS/MSD
14	~~YGWC-28I~~	WT																	~~x~~	~~x~~	~~x~~		
15		WT																	x	x	x		
16		WT																	x	x	x		
17		WT																	x	x	x		
18		WT																	x	x	x		
19		WT																	x	x	x		
20		WT																	x	x	x		
21																							
22																							
23																							
24																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature]			Charles Hink	2/11/21	1303	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Peter Arguiaki
SIGNATURE of SAMPLER: [signature]
DATE Signed: 02/11/2021

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

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Email:
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Section B
Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: ~~Yates Rd~~ AP-2
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Regulatory Agency
State / Location: GA

Requested Analysis Filtered (Y/N)

SAMPLE ID
One Character per box. (A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

Sample ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	Collected Start DATE	Collected Start TIME	Collected End DATE	Collected End TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	92521567
~~[illegible]~~ YGWA-1I	WT		2/12	1320														X	X	X		pH 6.21
~~[illegible]~~ YGWA-1I (021221)	WT		2/12	1155				12	X		X							X	X	X		pH 7.14
~~[illegible]~~	WT																	X	X	X		
~~[illegible]~~	WT																	X	X	X		
~~[illegible]~~	WT																	X	X	X		
~~[illegible]~~	WT																	X	X	X		

010 ms/msd 011

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Becky Steever / Arcadis	2/12/21	1710	K. Williford / Pace	2/12/21	1710	2.5	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Becky Steever
SIGNATURE of SAMPLER: [signature]
DATE Signed: 2/12/21

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

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Phone:	(770)384-6526 Fax:
Requested Due Date:	

Section B — Required Project Information:

Report To:	Becky Steever
Copy To:	
Purchase Order #:	
Project Name:	Yates AP-2
Project #:	

Section C — Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	kevin.herring@pacelabs.com,
Pace Profile #:	10840

Regulatory Agency:

State / Location: GA

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	92521567
YGWC-26 (021221)	WT		2/12	1520				4	1		1							x	x	x		pH 6.60 012
YGWC-29I (021221)	WT		2/12	1420				4	1		1							x	x	x		pH 6.24 013
EB-02 (021221)	WT		2/12	1530				4	1		1							x	x	x		014
	WT																	x	x	x		
	WT																	x	x	x		
	WT																	x	x	x		
	WT																	x	x	x		
	WT																	x	x	x		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Becky Shaw / ATC	2/12/21	1215	K. [illegible] / PACE	2/12/21	1210	2.5	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Becky Shaw

SIGNATURE of SAMPLER: [signature]

DATE Signed: 2/12/21

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

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COC 3

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Phone: (770)384-6526 Fax:
Requested Due Date:

Section B — Required Project Information:

Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates AMA
Project #:

Section C — Invoice Information:

Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	92521568
13	YGWA-5D	WT		02/05/21	1645			4											x	x	x		
14		WT																	x	x	x		
15		WT																	x	x	x		
16		WT																	x	x	x		
17		WT																	x	x	x		
18		WT																	x	x	x		
19		WT																	x	x	x		
20		WT																	x	x	x		
21																							
22																							
23																							
24																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
				Charles Henley	2/10/21	1710	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Peter Argyrakis

SIGNATURE of SAMPLER: [signature]

DATE Signed: 02/10/2021

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

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Page : 2 Of 3

COC 3

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nton, GA 30114
ail:
one: (770)384-6526 Fax:
quested Due Date:

Section B
Required Project Information:
Report To: Becky Sleever
Copy To:
Purchase Order #:
Project Name: Yates AMA
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	92521568
1	~~[illegible]~~ DUP-01(020821)	WT		2-8-21	—				4	/		/						x	x	x		—
2	YGWA-5I	WT		2-8-21	1620				4	/	[illegible]	/						x	x	x		pH:5.67
3	~~[illegible]~~ YGWA-39	WT		2-10-21	0936				4	/		/						x	x	x		— pH: 5.80
4	~~[illegible]~~ YGWA-40	WT		2-10-21	1050				12	/		/						x	x	x		— pH:5.19 MS/MSD
5	~~[illegible]~~ FB-01(021021)	WT		2-10-21	1105				4	/		/						x	x	x		—
6	~~[illegible]~~	WT																~~x~~	~~x~~	~~x~~		—
7	YGWA-20S	WT		2-7-21	1650				4	/		/						x	x	x		pH:5.80
8	~~[illegible]~~	WT																~~x~~	~~x~~	~~x~~		—
9	~~[illegible]~~	~~WT~~		~~[illegible]~~	~~[illegible]~~				~~4~~	~~/~~		~~/~~						~~x~~	~~x~~	~~x~~		~~[illegible]~~
10	~~[illegible]~~	WT																~~x~~	~~x~~	~~x~~		—
11	~~[illegible]~~	WT																~~x~~	~~x~~	~~x~~		—
12	~~[illegible]~~	WT																~~x~~	~~x~~	~~x~~		—

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Katie Pypkiewicz/Arcadis	2.10.21	1512	Charles [illegible]	2/10/21	1710	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Katie Pypkiewicz
SIGNATURE of SAMPLER: [signature] DATE Signed: 2-9-2021

TEMP in C	Received on Ice (Y/N)	Custody 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.

Page: 3 Of 3

Section A — Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Marietta, GA 30114
Attn:
Phone: (770)384-6526 Fax
Requested Due Date:

Section B — Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates AMA
Project #:

Section C — Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10640

Regulatory Agency:
State / Location: GA

Matrix codes: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: Y/N	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	
1	YGWA-4I (020921)	WT		2/9	0850				4	N		X							X	X	X		pH 6.06
2	~~MGWA-5D~~	WT																	X	X	X		
3	~~YGWA-5D~~	WT																	X	X	X		
4	YGWA-17S (020921)	WT		2/9	1115				4	N		X							X	X	X		pH 5.62
5	YGWA-18S (020921)	WT		2/9	1325				4	N		X							X	X	X		pH ~~6.12~~ 5.43
6	YGWA-18I (020921)	WT		2/9	1440				4	N		X							X	X	X		pH 6.12
7	~~YGWA-20S~~	WT																	X	X	X		
8	YGWA-21I (020921)	WT		2/9	1610				4	N		X							X	X	X		pH 6.95
9	~~YGWC-23S~~	WT																	X	X	X		
10	~~YGWC-24BA~~	WT																	X	X	X		
11	~~YGWC-38A~~	WT																	X	X	X		
12	~~YGWC-40~~ (020921)	WT		2/9	1536				4	X	X	X							X	X	X		pH

Residual Chlorine (Y/N): 92521568

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	B Steever / Arcadis	2/10/21	1500	Peter Arguedas	2/10/21	1500	
				Chase Hanks	2/10/21	1710	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Becky Steever
SIGNATURE of SAMPLER:
DATE Signed: 2/10/21

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

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 2

CoC B

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Georgia Power	Report To: Becky Steever	Attention:
Address: 1070 Bridge Mill Ave	Copy To:	Company Name:
Marietta, GA 30114		Address:
Email:	Purchase Order #:	Pace Quote:
Phone: (770)384-6525 Fax:	Project Name: [redacted] AP-2	Pace Project Manager: kevin.herring@pacelabs.com
Requested Due Date:	Project #:	Pace Profile #: 10640

Regulatory Agency: GA

State / Location:

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	
1	[redacted] YGWA-3I (021021)	WT		2/10	1640				4	X		X							X	X	X		G2521564
2	[redacted] YGWA-3D (021021)	WT		2/10	1725				4	X		X							X	X	X		pH 7.53 013 pH 7.81 014
3	[redacted]	WT																	X	X	X		
4	[redacted]	WT																	X	X	X		
5	[redacted]	WT																	X	X	X		
6	[redacted]	WT																	X	X	X		
7																							
8																							
9																							
10																							
11																							
12																							

MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature]			Charles Hale	2/11/21	1307	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Becky Steever

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/11/21

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

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CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Canton, GA 30114
Email:
Phone: (770)384-6526 Fax:
Requested Due Date:

Section B Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates AP-2
Project #:

Section C Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10640

Page: 2 Of 2
CoC 3

Regulatory Agency

State / Location: GA

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	4252568
1	~~[illegible]~~	WT																	~~X~~	~~X~~	~~X~~		
2	~~YGWA-4D~~	WT																	~~X~~	~~X~~	~~X~~		
3	~~YGWA-[illegible]~~	WT																	~~X~~	~~X~~	~~X~~		
4	~~YGWA-[illegible]~~	WT																	~~X~~	~~X~~	~~X~~		
5	~~YGWA-39~~	WT																	~~X~~	~~X~~	~~X~~		
6	~~[illegible]~~	WT																	~~X~~	~~X~~	~~X~~		
7	YGWA-30I (021121)	WT		2-11-21	0950				4	/		/							X	X	X		pH: 5.73 015
8	~~YGWC-36A~~ FB-01 (021121)	WT		2-4-21	1000				4	/		/							X	X	X		— 016
9	~~YGWC-38~~ EB-01 (021121)	WT		2-11-21	1305				4	/		/							~~X~~	~~X~~	~~X~~		017
10	~~YGWC-37~~	WT																	~~X~~	~~X~~	~~X~~		
11	~~YGWC-[illegible]~~	WT																	~~X~~	~~X~~	~~X~~		
12	~~[illegible]~~	WT																	~~X~~	~~X~~	~~X~~		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature]			Charles Hentz	2/11/21	1303	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Katie Lypkiewicz
SIGNATURE of SAMPLER: [signature]
DATE Signed: 2-11-21

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 Of 1

COC 2

Section A — Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Acton, GA 30114
Email:
Phone: (770)384-6526 Fax
Requested Due Date:

Section B — Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates AP-2
Project #:

Section C — Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	92521578
1	~~YGWA-1I~~	WT																	X	X	X		-
2	~~YGWA-4D~~	WT																	X	X	X		-
3	~~YGWA-2I~~	WT																	X	X	X		-
4	~~YGWA-3I~~	WT																	X	X	X		-
5	~~YGWA-3D~~ EB-02	WT		02/10/21	1130			4											X	X	X		-
6	YGWA-14S	WT		02/10/21	0830			4											X	X	X		pH: 5.35
7	~~YGWA-3S~~ Dup-1	WT		02/10/21	—			4											X	X	X		~~pH: 5.18~~
8	YGWC-26S	WT		02/10/21	1000			4											X	X	X		pH: 5.18
9	YGWC-26I	WT		02/10/21	1100			4											X	X	X		pH = 5.96
10	YGWC-27S	WT		02/10/21	1210			4											X	X	X		pH: 6.21
11	YGWC-27I	WT		02/10/21	1315			4											X	X	X		pH: 6.29
12	~~YGWC-28S~~ Dup-2	WT		02/10/21	—			4											X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
				Charles Hardy	2/10/21	1710	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Peter Argyropoulos

SIGNATURE of SAMPLER: [signature]

DATE Signed: 02/10/2021

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

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CHAIN-OF-CUSTODY / Analytical Request Document

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Section A
Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Canton, GA 30114
Email:
Phone: (770)384-6526 Fax:
Requested Due Date:

Section B
Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates AP-2
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Page: 1 Of 1
COC 2

Regulatory Agency
State / Location: GA

Requested Analysis Filtered (Y/N)

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	92521578
13	YGWC-28I (021121)	WT		2/11/21	0940		124												X	X	X		pH=6.57
14	~~YGWC-28I~~	WT																	~~X~~	~~X~~	~~X~~		
15		WT																	X	X	X		
16		WT																	X	X	X		
17		WT																	X	X	X		
18		WT																	X	X	X		
19		WT																	X	X	X		
20		WT																	X	X	X		
21																							
22																							
23																							
24																							

Note: in item 14, the sample ID and the X marks are struck through on the form.

MS/MSD

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	P/GW			Charles Hank	2/11/21	1303	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Peter Argyoput
SIGNATURE of SAMPLER: [signature]
DATE Signed: 02/11/2021

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

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A Required Client Information:

Company:	Georgia Power
Address:	1070 Bridge Mill Ave
	Canton, GA 30114
Email:	
Phone:	(770)384-6526 Fax
Requested Due Date:	

Section B Required Project Information:

Report To:	Becky Steever
Copy To:	
Purchase Order #:	
Project Name:	~~Yates RU~~ AP-2
Project #:	

Section C Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	kevin.herring@pacelabs.com,
Pace Profile #:	10840

Regulatory Agency:

State / Location: GA

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

Matrix codes: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

Requested Analysis Filtered (Y/N)

#	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	92521578
1	~~[illegible]~~ YGWA-1I	WT		2/12	1320														x	x	x		pH 6.21
2	~~[illegible]~~ YGWA-1I (021221)	WT		2/12	1155				12	X		X							x	x	x		pH 7.14 (DO MS/MSD)
3	~~[illegible]~~	WT																	x	x	x		
4	~~[illegible]~~	WT																	x	x	x		
5	~~[illegible]~~	WT																	x	x	x		
6	~~YGWC-[illegible]~~	WT																	x	x	x		
7																							
8																							
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Becky Steever / Arcadis	2/12/21	1710	K. [illegible] / Pace	2/12/21	1710	2.5	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Becky Steever

SIGNATURE of SAMPLER: [signature]

DATE Signed: 2/12/21

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

Pace Analytical
www.pacelabs.com

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: Georgia Power
Address: 1070 Bridge Mill Ave
Con, GA 30114
Email:
Phone: (770)384-6526 Fax:
Requested Due Date:

Section B
Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates AP-2
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com
Pace Profile #: 10840

Regulatory Agency
State / Location
GA

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product PD; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	92521578
YGWC-28 (02122)	WT		2/12	1520				4	1		Y						X	X	X		pH 6.60	02
YGWC-29I (02122)	WT		2/12	1420				4	1		Y						X	X	X		pH 6.24	03
EB-02 (02122)	WT		2/12	1530				4	1		Y						X	X	X			04
	WT																X	X	X			
	WT																X	X	X			
	WT																X	X	X			
	WT																X	X	X			
	WT																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)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	Becky Steever / AECOM	2/12/22	1705	K. Herring / PACE	2/12/22	1710	2.5	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Becky Steever
SIGNATURE of SAMPLER: [signature] DATE Signed: 2/12/22

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	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# : 92521581

92521581

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☑ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/10/21

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: 2.1 **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): 2.1

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

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CHAIN-OF-CUSTODY / Analytical Request Document

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COC 3

COC 3

Section A	Section B	Section C	
Required Client Information:	Required Project Information:	Invoice Information:	
Company: Georgia Power	Report To: Becky Sleever	Attention:	
Address: 1070 Bridge Mill Ave	Copy To:	Company Name:	Regulatory Agency
Acton, GA 30114		Address:	
Email:	Purchase Order #:	Pace Quote:	
Phone: (770)384-6526 Fax:	Project Name: Yates AMA	Pace Project Manager: kevin.herring@pacelabs.com,	State / Location
Requested Due Date:	Project #:	Pace Profile #: 10640	GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	
13	YGWA-5D	WT		02/05/24	1645			4										X	X	X			
14		WT																X	X	X			
15		WT																X	X	X			
16		WT																X	X	X			
17		WT																X	X	X			
18		WT																X	X	X			
19		WT																X	X	X			
20		WT																X	X	X			
21																							
22																							
23																							
24																							

Requested Analysis Filtered (Y/N)

G252561

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
				Charles Hentz	2/10/24	1710	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Peter Arguelles

SIGNATURE of SAMPLER: [signature]

DATE Signed: 02/10/2024

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

CHAIN-OF-CUSTODY / Analytical Request Document

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C043

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Georgia Power	Report To: Becky Steever	Attention:
Address: 1070 Bridge Mill Ave Canton, GA 30114	Copy To:	Company Name:
Email:	Purchase Order #:	Address:
Phone: (770)384-6526 Fax	Project Name: Yates AMA	Pace Quote:
Requested Due Date:	Project #:	Pace Project Manager: kevin.herring@pacelabs.com,
		Pace Profile #: 10840

Regulatory Agency: GA

State / Location:

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	92541581
1	~~YGWA-41~~ DUP-01(02082)	WT		2-8-21	—				4	/		/						x	x	x		—
2	YGWA-5I	WT		2-8-21	1620				4	/		/						x	x	x		pH: 5.67
3	~~YGWA-39~~ YGWA-39	WT		2-10-21	0930				4	/		/						x	x	x		— pH: 5.80
4	~~YGWA-40~~ YGWA-40	WT		2-10-21	1050				12	/		/						x	x	x		— pH: 5.19 MS/MSD
5	~~YGWA-42~~ FB-01(02102D)	WT		2-10-21	1105				4	/		/						x	x	x		—
6	~~YGWA-5R~~	WT																x	x	x		—
7	YGWA-20S	WT		2-9-21	1650				4	/		/						x	x	x		pH: 5.86
8	~~YGWA-24I~~	WT																x	x	x		—
9	~~YGWA-20D~~	WT		~~2-9-21~~	~~1110~~				~~4~~	~~A~~		~~A~~						x	x	x		~~pH: 5.84~~
10	~~YGWA-21DA~~	WT																x	x	x		—
11	~~YGWA-39A~~	WT																x	x	x		—
12	~~YGWA-40~~	WT																x	x	x		—

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Katie Rykiewicz/Arcadis	21021	1512	Charles Hunter	2/10/21	1710	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Katie Rykiewicz

SIGNATURE of SAMPLER: Katie Rykiewicz DATE Signed: 2-9-2021

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

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Section A – Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Canton, GA 30114
Email:
Phone: (770)384-5526 Fax:
Requested Due Date:

Section B – Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates AMA
Project #:

Section C – Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Regulatory Agency
State / Location: GA

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	92521581
1	YGWA-4I (020921)	WT		2/9	0950				4	X		X							x	x	x		pH 6.06
2	~~YGWA-5I~~	WT																	x	x	x		
3	~~YGWA-5D~~	WT																	x	x	x		
4	YGWA-17S (020921)	WT		2/9	1115				4	X		X							x	x	x		pH 5.62
5	YGWA-18S (020921)	WT		2/9	1325				4	X		X							x	x	x		pH ~~6.12~~ 5.43
6	YGWA-18I (020921)	WT		2/9	1440				4	X		X							x	x	x		pH 6.12
7	~~YGWA-20S~~	WT																	x	x	x		
8	YGWA-21I (020921)	WT		2/9	1610				4	X		X							x	x	x		pH 6.95
9	~~YGWC-23S~~	WT																	x	x	x		
10	~~YGWC-24A~~	WT																	x	x	x		
11	~~YGWC-38A~~	WT																	x	x	x		
12	YGWC-49 (020921)	WT		2/9	1515				4	X	X	X							x	x	x		pH

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	B Steever / Arcadis	2/10/21	1500	Peter Angerdes	2/10/21	1500	
				Charles Hunley	2/10/21	1710	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Becky Steever
SIGNATURE of SAMPLER: [signature] DATE Signed: 2/10/21

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

CHAIN-OF-CUSTODY / Analytical Request Document

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CoC B

Section A
Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Marion, GA 30114
Email:
Phone: (770)334-6526 Fax
Requested Due Date:

Section B
Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: [redacted] AP-2
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com
Pace Profile #: 10840

Regulatory Agency
State / Location: GA

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: Y/N	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	
1	[redacted] 46WA-3I (021021)	WT		2/10	1140				4	X		X							X	X	X			92521581
2	[redacted] 46WA-3D (021021)	WT		2/10	1225				4	X		X							X	X	X			pH 7.53 013
3	[redacted]	WT																	X	X	X			pH 7.81 014
4	[redacted]	WT																	X	X	X			
5	[redacted]	WT																	X	X	X			
6	[redacted]	WT																	X	X	X			
7																								
8																								
9																								
10																								
11																								
12																								

MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[redacted]			Charles Hood	2/11/21	1307	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Becky Steever
SIGNATURE of SAMPLER:
DATE Signed: 2/11/21

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Coc 3

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Georgia Power	Report To: Becky Steever	Attention:
Address: 1070 Bridge Mill Ave	Copy To:	Company Name:
Hinton, GA 30114		Address:
Email:	Purchase Order #:	Pace Quote:
Phone: (770)384-6526 Fax	Project Name: Yates AP-2	Pace Project Manager: kevin.herring@pacelabs.com,
Requested Due Date:	Project #:	Pace Profile #: 10840

Regulatory Agency: GA

State / Location:

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~YGWA-[illegible]~~	WT																	X	X	X		42521581
2	~~YGWA-[illegible]~~	WT																	X	X	X		
3	~~YGWA-[illegible]~~	WT																	X	X	X		
4	~~YGWA-[illegible]~~	WT																	X	X	X		
5	~~YGWA-[illegible]~~	WT																	X	X	X		
6	~~YGWA-[illegible]~~	WT																	X	X	X		
7	YGWA-30I (021121)	WT		2-1-21	0950				4	/		/							X	X	X		pH 5.73 015
8	~~YGWC-[illegible]~~ FB-01 (021121)	WT		2-1-21	1000				4	/		/							X	X	X		016
9	~~YGWC-[illegible]~~ EB-01 (021121)	WT		2-1-21	1305				4	/		/							X	X	X		017
10	~~YGWC-[illegible]~~	WT																	X	X	X		
11	~~YGWC-[illegible]~~	WT																	X	X	X		
12	~~YGWC-[illegible]~~	WT																	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
				Charles Hentz	2/1/21	1305	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Katie Pyrkiewicz

SIGNATURE of SAMPLER: [signature] DATE Signed: 2-1-21

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

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier
	YGWA-30I	6010D	Lead	<0.005	mg/L	UB
	YGWA-20S	6010D	Antimony	<0.0030	mg/L	UB
	YGWA-21I	6010D	Antimony	<0.0030	mg/L	UB
92521578	No Qualifiers Added					
92521568	No Qualifiers Added					
92521567	No Qualifiers Added					

Abbreviations:
mg/L = milligrams per liter

Qualifiers:
UB = not detected due to blank contamina
J/UJ = Estimated

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

February 25, 2021

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

RE: Project: YATES AMA
Pace Project No.: 92521581

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 10, 2021 and February 12, 2021. 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,

Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: YATES AMA
Pace Project No.: 92521581

Pace Analytical Services Charlotte
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
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 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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: YATES AMA
Pace Project No.: 92521581

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92521581001	**YGWA-5D (020821)**	Water	02/08/21 16:45	02/10/21 17:10
92521581002	**DUP-01(020821)**	Water	02/08/21 00:00	02/10/21 17:10
92521581003	**YGWA-5I (020821)**	Water	02/08/21 16:20	02/10/21 17:10
92521581004	**YGWA-39 (021021)**	Water	02/10/21 09:30	02/10/21 17:10
92521581005	**YGWA-40 (021021)**	Water	02/10/21 10:50	02/10/21 17:10
92521581006	**FB-01(021021)**	Water	02/10/21 11:05	02/10/21 17:10
92521581007	**YGWA-20S (020921)**	Water	02/09/21 16:50	02/10/21 17:10
92521581008	**YGWA-4I(020921)**	Water	02/09/21 09:50	02/10/21 17:10
92521581009	**YGWA-17S(020921)**	Water	02/09/21 11:15	02/10/21 17:10
92521581010	**YGWA-18S(020921)**	Water	02/09/21 13:25	02/10/21 17:10
92521581011	**YGWA-18I(020921)**	Water	02/09/21 14:00	02/10/21 17:10
92521581012	**YGWA-21I(020921)**	Water	02/09/21 16:10	02/10/21 17:10
92521581013	**YGWA-3I(021021)**	Water	02/10/21 16:40	02/11/21 13:03
92521581014	**YGWA-3D(021021)**	Water	02/10/21 17:25	02/11/21 13:03
92521581015	**YGWA-30I(021121)**	Water	02/11/21 09:50	02/11/21 13:03
92521581016	**FB-01(021121)**	Water	02/11/21 10:00	02/11/21 13:03
92521581017	**EB-01(021121)**	Water	02/11/21 12:05	02/11/21 13:03
92521578002	**YGWA-14S (021021)**	Water	02/10/21 08:50	02/10/21 17:10
92521578010	**YGWA-1I (021221)**	Water	02/12/21 13:20	02/12/21 17:10
92521578011	**YGWA-1D (021221)**	Water	02/12/21 11:55	02/12/21 17:10
92521578001	**EB-02 (021021)**	Water	02/10/21 11:30	02/10/21 17:10
92521578003	**DUP-1 (021021)**	Water	02/10/21 00:00	02/10/21 17:10
92521583002	**YGWA-2I(021021)**	Water	02/10/21 12:40	02/10/21 17:10

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES AMA
Pace Project No.: 92521581

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92521581001	**YGWA-5D (020821)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581002	**DUP-01(020821)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581003	**YGWA-5I (020821)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581004	**YGWA-39 (021021)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581005	**YGWA-40 (021021)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581006	**FB-01(021021)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581007	**YGWA-20S (020921)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581008	**YGWA-4I(020921)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581009	**YGWA-17S(020921)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581010	**YGWA-18S(020921)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581011	**YGWA-18I(020921)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581012	**YGWA-21I(020921)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581013	**YGWA-3I(021021)**	EPA 6020B	CW1	12

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES AMA
Pace Project No.: 92521581

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581014	**YGWA-3D(021021)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581015	**YGWA-30I(021121)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581016	**FB-01(021121)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521581017	**EB-01(021121)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521578002	**YGWA-14S (021021)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521578010	**YGWA-1I (021221)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	JLH	1
92521578011	**YGWA-1D (021221)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	JLH	1
92521578001	**EB-02 (021021)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521578003	**DUP-1 (021021)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521583002	**YGWA-2I(021021)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: YATES AMA
Pace Project No.: 92521581

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521581001	**YGWA-5D (020821)**					
EPA 6020B	Barium	0.0079J	mg/L	0.010	02/17/21 19:42	
EPA 6020B	Lead	0.00013J	mg/L	0.0050	02/17/21 19:42	
EPA 6020B	Lithium	0.0063J	mg/L	0.030	02/17/21 19:42	
EPA 6020B	Molybdenum	0.0011J	mg/L	0.010	02/17/21 19:42	
EPA 300.0 Rev 2.1 1993	Fluoride	0.055J	mg/L	0.10	02/13/21 00:35	
92521581002	**DUP-01(020821)**					
EPA 6020B	Barium	0.020	mg/L	0.010	02/17/21 19:47	
EPA 6020B	Lithium	0.0031J	mg/L	0.030	02/17/21 19:47	
92521581003	**YGWA-5I (020821)**					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	5.67	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.020	mg/L	0.010	02/17/21 19:53	
EPA 6020B	Lead	0.000037J	mg/L	0.0050	02/17/21 19:53	
EPA 6020B	Lithium	0.0032J	mg/L	0.030	02/17/21 19:53	
92521581004	**YGWA-39 (021021)**					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	5.80	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.027	mg/L	0.010	02/17/21 19:59	
EPA 6020B	Beryllium	0.000051J	mg/L	0.0030	02/17/21 19:59	
EPA 6020B	Cadmium	0.00019J	mg/L	0.0025	02/17/21 19:59	
EPA 6020B	Cobalt	0.00098J	mg/L	0.0050	02/17/21 19:59	
EPA 6020B	Lithium	0.0071J	mg/L	0.030	02/17/21 19:59	
EPA 6020B	Molybdenum	0.0013J	mg/L	0.010	02/17/21 19:59	
92521581005	**YGWA-40 (021021)**					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	5.19	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.032	mg/L	0.010	02/17/21 20:05	
EPA 6020B	Beryllium	0.00021J	mg/L	0.0030	02/17/21 20:05	
92521581006	**FB-01(021021)**					
EPA 6020B	Antimony	0.00052J	mg/L	0.0030	02/17/21 20:39	B
92521581007	**YGWA-20S (020921)**					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	5.86	Std. Units		02/23/21 08:11	
EPA 6020B	Antimony	0.00032J	mg/L	0.0030	02/17/21 20:45	B
EPA 6020B	Barium	0.015	mg/L	0.010	02/17/21 20:45	
EPA 6020B	Beryllium	0.000068J	mg/L	0.0030	02/17/21 20:45	
EPA 6020B	Chromium	0.00056J	mg/L	0.010	02/17/21 20:45	
EPA 6020B	Lead	0.000063J	mg/L	0.0050	02/17/21 20:45	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: YATES AMA
Pace Project No.: 92521581

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521581008	**YGWA-4I(020921)**					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	6.06	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.013	mg/L	0.010	02/17/21 20:50	
EPA 6020B	Lithium	0.011J	mg/L	0.030	02/17/21 20:50	
92521581009	**YGWA-17S(020921)**					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	5.62	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.016	mg/L	0.010	02/17/21 20:56	
EPA 6020B	Beryllium	0.000094J	mg/L	0.0030	02/17/21 20:56	
EPA 6020B	Chromium	0.00098J	mg/L	0.010	02/17/21 20:56	
92521581010	**YGWA-18S(020921)**					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	5.43	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.017	mg/L	0.010	02/17/21 21:02	
EPA 6020B	Beryllium	0.000098J	mg/L	0.0030	02/17/21 21:02	
EPA 6020B	Chromium	0.0013J	mg/L	0.010	02/17/21 21:02	
EPA 6020B	Lead	0.000094J	mg/L	0.0050	02/17/21 21:02	
EPA 6020B	Lithium	0.0019J	mg/L	0.030	02/17/21 21:02	
92521581011	**YGWA-18I(020921)**					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	6.12	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.023	mg/L	0.010	02/17/21 21:07	
EPA 6020B	Chromium	0.00083J	mg/L	0.010	02/17/21 21:07	
EPA 6020B	Lead	0.000050J	mg/L	0.0050	02/17/21 21:07	
EPA 6020B	Lithium	0.0031J	mg/L	0.030	02/17/21 21:07	
92521581012	**YGWA-21I(020921)**					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	6.95	Std. Units		02/23/21 08:11	
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	02/17/21 21:13	B
EPA 6020B	Arsenic	0.0010J	mg/L	0.0050	02/17/21 21:13	
EPA 6020B	Barium	0.011	mg/L	0.010	02/17/21 21:13	
EPA 6020B	Cadmium	0.00041J	mg/L	0.0025	02/17/21 21:13	
EPA 6020B	Cobalt	0.0090	mg/L	0.0050	02/17/21 21:13	
EPA 6020B	Lithium	0.0060J	mg/L	0.030	02/17/21 21:13	
EPA 300.0 Rev 2.1 1993	Fluoride	0.092J	mg/L	0.10	02/12/21 16:12	
92521581013	**YGWA-3I(021021)**					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	7.58	Std. Units		02/23/21 08:11	
EPA 6020B	Arsenic	0.00078J	mg/L	0.0050	02/17/21 21:19	
EPA 6020B	Barium	0.0029J	mg/L	0.010	02/17/21 21:19	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

SUMMARY OF DETECTION

Project: YATES AMA
Pace Project No.: 92521581

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521581013	**YGWA-3I(021021)**					
EPA 6020B	Lithium	0.015J	mg/L	0.030	02/17/21 21:19	
EPA 6020B	Molybdenum	0.0038J	mg/L	0.010	02/17/21 21:19	
92521581014	**YGWA-3D(021021)**					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	7.81	Std. Units		02/23/21 08:11	
EPA 6020B	Arsenic	0.00094J	mg/L	0.0050	02/17/21 21:25	
EPA 6020B	Barium	0.0059J	mg/L	0.010	02/17/21 21:25	
EPA 6020B	Lithium	0.023J	mg/L	0.030	02/17/21 21:25	
EPA 6020B	Molybdenum	0.014	mg/L	0.010	02/17/21 21:25	
EPA 300.0 Rev 2.1 1993	Fluoride	0.43	mg/L	0.10	02/12/21 20:11	
92521581015	**YGWA-30I(021121)**					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	5.73	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.0077J	mg/L	0.010	02/17/21 21:30	
EPA 6020B	Beryllium	0.000047J	mg/L	0.0030	02/17/21 21:30	
EPA 6020B	Cobalt	0.0078	mg/L	0.0050	02/17/21 21:30	
EPA 6020B	Lead	0.000046J	mg/L	0.0050	02/17/21 21:30	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	02/17/21 21:30	
92521581016	**FB-01(021121)**					
EPA 6020B	Lead	0.00013J	mg/L	0.0050	02/17/21 21:53	
92521578002	**YGWA-14S (021021)**					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	5.35	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.0078J	mg/L	0.010	02/23/21 20:47	
EPA 6020B	Beryllium	0.00019J	mg/L	0.0030	02/23/21 20:47	
EPA 6020B	Lead	0.000048J	mg/L	0.0050	02/23/21 20:47	
92521578010	**YGWA-1I (021221)**					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	6.21	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.0090J	mg/L	0.010	02/23/21 22:01	
EPA 6020B	Cobalt	0.0028J	mg/L	0.0050	02/23/21 22:01	
EPA 6020B	Lead	0.00038J	mg/L	0.0050	02/23/21 22:01	
EPA 6020B	Lithium	0.0025J	mg/L	0.030	02/23/21 22:01	
EPA 6020B	Molybdenum	0.0056J	mg/L	0.010	02/23/21 22:01	
92521578011	**YGWA-1D (021221)**					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	7.14	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.0057J	mg/L	0.010	02/23/21 22:07	
EPA 6020B	Cobalt	0.00086J	mg/L	0.0050	02/23/21 22:07	
EPA 6020B	Lead	0.000044J	mg/L	0.0050	02/23/21 22:07	

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SUMMARY OF DETECTION

Project: YATES AMA
Pace Project No.: 92521581

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521578011	**YGWA-1D (021221)**					
EPA 6020B	Lithium	0.010J	mg/L	0.030	02/23/21 22:07	
EPA 6020B	Molybdenum	0.0080J	mg/L	0.010	02/23/21 22:07	
EPA 300.0 Rev 2.1 1993	Fluoride	0.068J	mg/L	0.10	02/16/21 19:01	
92521578003	**DUP-1 (021021)**					
EPA 6020B	Barium	0.0078J	mg/L	0.010	02/23/21 20:52	
EPA 6020B	Beryllium	0.00019J	mg/L	0.0030	02/23/21 20:52	
92521583002	**YGWA-2I(021021)**					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	7.29	Std. Units		02/23/21 08:11	
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	02/19/21 19:27	
EPA 6020B	Barium	0.0032J	mg/L	0.010	02/19/21 19:27	
EPA 6020B	Lead	0.00015J	mg/L	0.0050	02/19/21 19:27	
EPA 6020B	Lithium	0.0039J	mg/L	0.030	02/19/21 19:27	
EPA 6020B	Molybdenum	0.0041J	mg/L	0.010	02/19/21 19:27	
EPA 300.0 Rev 2.1 1993	Fluoride	0.094J	mg/L	0.10	02/12/21 16:44	

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ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-5D (020821) **Lab ID: 92521581001** Collected: 02/08/21 16:45 Received: 02/10/21 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 19:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 19:42	7440-38-2	
Barium	**0.0079J**	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 19:42	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 19:42	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 19:42	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 19:42	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 19:42	7440-48-4	
Lead	**0.00013J**	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 19:42	7439-92-1	
Lithium	**0.0063J**	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 19:42	7439-93-2	
Molybdenum	**0.0011J**	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 19:42	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 19:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 19:42	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:29	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.055J**	mg/L	0.10	0.050	1		02/13/21 00:35	16984-48-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: DUP-01(020821) **Lab ID: 92521581002** Collected: 02/08/21 00:00 Received: 02/10/21 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 19:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 19:47	7440-38-2	
Barium	**0.020**	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 19:47	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 19:47	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 19:47	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 19:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 19:47	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 19:47	7439-92-1	
Lithium	**0.0031J**	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 19:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 19:47	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 19:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 19:47	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:31	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 00:50	16984-48-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-5I (020821) **Lab ID: 92521581003** Collected: 02/08/21 16:20 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	**5.67**	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 19:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 19:53	7440-38-2	
Barium	**0.020**	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 19:53	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 19:53	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 19:53	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 19:53	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 19:53	7440-48-4	
Lead	**0.000037J**	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 19:53	7439-92-1	
Lithium	**0.0032J**	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 19:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 19:53	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 19:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 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	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:34	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 01:04	16984-48-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-39 (021021) **Lab ID: 92521581004** Collected: 02/10/21 09:30 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	**5.80**	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 19:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 19:59	7440-38-2	
Barium	**0.027**	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 19:59	7440-39-3	
Beryllium	**0.000051J**	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 19:59	7440-41-7	
Cadmium	**0.00019J**	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 19:59	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 19:59	7440-47-3	
Cobalt	**0.00098J**	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 19:59	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 19:59	7439-92-1	
Lithium	**0.0071J**	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 19:59	7439-93-2	
Molybdenum	**0.0013J**	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 19:59	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 19:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 19:59	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:36	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 01:19	16984-48-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-40 (021021) **Lab ID: 92521581005** Collected: 02/10/21 10:50 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	**5.19**	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 20:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 20:05	7440-38-2	
Barium	**0.032**	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 20:05	7440-39-3	
Beryllium	**0.00021J**	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 20:05	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 20:05	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 20:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 20:05	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 20:05	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 20:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 20:05	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 20:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 20:05	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:38	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 01:33	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: FB-01(021021) **Lab ID: 92521581006** Collected: 02/10/21 11:05 Received: 02/10/21 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00052J**	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 20:39	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 20:39	7440-38-2	
Barium	ND	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 20:39	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 20:39	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 20:39	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 20:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 20:39	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 20:39	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 20:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 20:39	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 20:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 20:39	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:53	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 02:16	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-20S (020921) **Lab ID: 92521581007** Collected: 02/09/21 16:50 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	**5.86**	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00032J**	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 20:45	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 20:45	7440-38-2	
Barium	**0.015**	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 20:45	7440-39-3	
Beryllium	**0.000068J**	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 20:45	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 20:45	7440-43-9	
Chromium	**0.00056J**	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 20:45	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 20:45	7440-48-4	
Lead	**0.000063J**	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 20:45	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 20:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 20:45	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 20:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 20:45	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:55	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 02:31	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-4I(020921) **Lab ID: 92521581008** Collected: 02/09/21 09:50 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	**6.06**	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 20:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 20:50	7440-38-2	
Barium	**0.013**	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 20:50	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 20:50	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 20:50	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 20:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 20:50	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 20:50	7439-92-1	
Lithium	**0.011J**	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 20:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 20:50	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 20:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 20:50	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 11:57	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 02:45	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-17S(020921) **Lab ID: 92521581009** Collected: 02/09/21 11:15 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	**5.62**	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 20:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 20:56	7440-38-2	
Barium	**0.016**	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 20:56	7440-39-3	
Beryllium	**0.000094J**	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 20:56	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 20:56	7440-43-9	
Chromium	**0.00098J**	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 20:56	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 20:56	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 20:56	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 20:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 20:56	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 20:56	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 20:56	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:00	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 03:29	16984-48-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-18S(020921) **Lab ID: 92521581010** Collected: 02/09/21 13:25 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	**5.43**	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:02	7440-38-2	
Barium	**0.017**	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:02	7440-39-3	
Beryllium	**0.000098J**	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:02	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:02	7440-43-9	
Chromium	**0.0013J**	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:02	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:02	7440-48-4	
Lead	**0.000094J**	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:02	7439-92-1	
Lithium	**0.0019J**	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:02	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:02	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:02	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		02/13/21 03:43	16984-48-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-18I(020921) **Lab ID: 92521581011** Collected: 02/09/21 14:00 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	**6.12**	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:07	7440-38-2	
Barium	**0.023**	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:07	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:07	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:07	7440-43-9	
Chromium	**0.00083J**	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:07	7440-48-4	
Lead	**0.000050J**	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:07	7439-92-1	
Lithium	**0.0031J**	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:07	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:07	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:05	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 15:56	16984-48-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-21I(020921) **Lab ID: 92521581012** Collected: 02/09/21 16:10 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	**6.95**	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0013J**	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:13	7440-36-0	B
Arsenic	**0.0010J**	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:13	7440-38-2	
Barium	**0.011**	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:13	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:13	7440-41-7	
Cadmium	**0.00041J**	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:13	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:13	7440-47-3	
Cobalt	**0.0090**	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:13	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:13	7439-92-1	
Lithium	**0.0060J**	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:13	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:13	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:13	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:13	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:07	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.092J**	mg/L	0.10	0.050	1		02/12/21 16:12	16984-48-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-3I(021021) **Lab ID: 92521581013** Collected: 02/10/21 16:40 Received: 02/11/21 13:03 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		02/23/21 08:11		
pH	**7.58**	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:19	7440-36-0	
Arsenic	**0.00078J**	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:19	7440-38-2	
Barium	**0.0029J**	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:19	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:19	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:19	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:19	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:19	7439-92-1	
Lithium	**0.015J**	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:19	7439-93-2	
Molybdenum	**0.0038J**	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:19	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 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	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:09	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 19:55	16984-48-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-3D(021021) **Lab ID: 92521581014** Collected: 02/10/21 17:25 Received: 02/11/21 13:03 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		02/23/21 08:11		
pH	**7.81**	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:25	7440-36-0	
Arsenic	**0.00094J**	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:25	7440-38-2	
Barium	**0.0059J**	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:25	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:25	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:25	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:25	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:25	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:25	7439-92-1	
Lithium	**0.023J**	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:25	7439-93-2	
Molybdenum	**0.014**	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:25	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 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	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:12	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.43**	mg/L	0.10	0.050	1		02/12/21 20:11	16984-48-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-30I(021121) **Lab ID: 92521581015** Collected: 02/11/21 09:50 Received: 02/11/21 13:03 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		02/23/21 08:11		
pH	**5.73**	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:30	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:30	7440-38-2	
Barium	**0.0077J**	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:30	7440-39-3	
Beryllium	**0.000047J**	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:30	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:30	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:30	7440-47-3	
Cobalt	**0.0078**	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:30	7440-48-4	
Lead	**0.000046J**	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:30	7439-92-1	
Lithium	**0.0012J**	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:30	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:30	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:14	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 20:27	16984-48-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: FB-01(021121) **Lab ID: 92521581016** Collected: 02/11/21 10:00 Received: 02/11/21 13:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:53	7440-38-2	
Barium	ND	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:53	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:53	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:53	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:53	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:53	7440-48-4	
Lead	**0.00013J**	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:53	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:53	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:53	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:21	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 20:43	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: EB-01(021121) **Lab ID: 92521581017** Collected: 02/11/21 12:05 Received: 02/11/21 13:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/17/21 12:10	02/17/21 21:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/17/21 12:10	02/17/21 21:59	7440-38-2	
Barium	ND	mg/L	0.010	0.00071	1	02/17/21 12:10	02/17/21 21:59	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/17/21 12:10	02/17/21 21:59	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/17/21 12:10	02/17/21 21:59	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/17/21 12:10	02/17/21 21:59	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/17/21 12:10	02/17/21 21:59	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/17/21 12:10	02/17/21 21:59	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/17/21 12:10	02/17/21 21:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/17/21 12:10	02/17/21 21:59	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/17/21 12:10	02/17/21 21:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/17/21 12:10	02/17/21 21:59	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	02/17/21 15:30	02/18/21 12:24	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 20:59	16984-48-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-14S (021021) **Lab ID: 92521578002** Collected: 02/10/21 08:50 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	**5.35**	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 20:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 20:47	7440-38-2	
Barium	**0.0078J**	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 20:47	7440-39-3	
Beryllium	**0.00019J**	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 20:47	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 20:47	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 20:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 20:47	7440-48-4	
Lead	**0.000048J**	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 20:47	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 20:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 20:47	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 20:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 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	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:40	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 22:26	16984-48-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-1I (021221) **Lab ID: 92521578010** Collected: 02/12/21 13:20 Received: 02/12/21 17:10 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		02/23/21 08:11		
pH	**6.21**	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 22:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 22:01	7440-38-2	
Barium	**0.0090J**	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 22:01	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 22:01	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 22:01	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 22:01	7440-47-3	
Cobalt	**0.0028J**	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 22:01	7440-48-4	
Lead	**0.00038J**	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 22:01	7439-92-1	
Lithium	**0.0025J**	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 22:01	7439-93-2	
Molybdenum	**0.0056J**	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 22:01	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 22:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 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	0.00050	0.000078	1	02/22/21 02:15	02/23/21 13:48	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		02/16/21 18:16	16984-48-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-1D (021221) **Lab ID: 92521578011** Collected: 02/12/21 11:55 Received: 02/12/21 17:10 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		02/23/21 08:11		
pH	**7.14**	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 22:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 22:07	7440-38-2	
Barium	**0.0057J**	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 22:07	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 22:07	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 22:07	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 22:07	7440-47-3	
Cobalt	**0.00086J**	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 22:07	7440-48-4	
Lead	**0.000044J**	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 22:07	7439-92-1	
Lithium	**0.010J**	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 22:07	7439-93-2	
Molybdenum	**0.0080J**	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 22:07	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 22:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 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	0.00050	0.000078	1	02/22/21 02:15	02/23/21 13:50	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.068J**	mg/L	0.10	0.050	1		02/16/21 19:01	16984-48-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: EB-02 (021021) **Lab ID: 92521578001** Collected: 02/10/21 11:30 Received: 02/10/21 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 20:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 20:41	7440-38-2	
Barium	ND	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 20:41	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 20:41	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 20:41	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 20:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 20:41	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 20:41	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 20:41	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 20:41	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 20:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 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	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:37	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 22:11	16984-48-8	

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ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: DUP-1 (021021) **Lab ID: 92521578003** Collected: 02/10/21 00:00 Received: 02/10/21 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 20:52	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 20:52	7440-38-2	
Barium	**0.0078J**	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 20:52	7440-39-3	
Beryllium	**0.00019J**	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 20:52	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 20:52	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 20:52	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 20:52	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 20:52	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 20:52	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 20:52	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 20:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 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	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:47	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 22:40	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: YATES AMA
Pace Project No.: 92521581

Sample: YGWA-2I(021021) **Lab ID: 92521583002** Collected: 02/10/21 12:40 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	**7.29**	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0013J**	mg/L	0.0030	0.00028	1	02/18/21 11:04	02/19/21 19:27	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/18/21 11:04	02/19/21 19:27	7440-38-2	
Barium	**0.0032J**	mg/L	0.010	0.00071	1	02/18/21 11:04	02/19/21 19:27	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/18/21 11:04	02/19/21 19:27	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/18/21 11:04	02/19/21 19:27	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/18/21 11:04	02/19/21 19:27	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/18/21 11:04	02/19/21 19:27	7440-48-4	
Lead	**0.00015J**	mg/L	0.0050	0.000036	1	02/18/21 11:04	02/19/21 19:27	7439-92-1	
Lithium	**0.0039J**	mg/L	0.030	0.00081	1	02/18/21 11:04	02/19/21 19:27	7439-93-2	
Molybdenum	**0.0041J**	mg/L	0.010	0.00069	1	02/18/21 11:04	02/19/21 19:27	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/18/21 11:04	02/19/21 19:27	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/18/21 11:04	02/19/21 19:27	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 12:03	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.094J**	mg/L	0.10	0.050	1		02/12/21 16:44	16984-48-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: YATES AMA
Pace Project No.: 92521581

QC Batch: 600633
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92521581001, 92521581002, 92521581003, 92521581004, 92521581005, 92521581006, 92521581007, 92521581008, 92521581009, 92521581010, 92521581011, 92521581012, 92521581013, 92521581014, 92521581015, 92521581016, 92521581017

METHOD BLANK: 3165605 Matrix: Water
Associated Lab Samples: 92521581001, 92521581002, 92521581003, 92521581004, 92521581005, 92521581006, 92521581007, 92521581008, 92521581009, 92521581010, 92521581011, 92521581012, 92521581013, 92521581014, 92521581015, 92521581016, 92521581017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00031J	0.0030	0.00028	02/17/21 19:30	
Arsenic	mg/L	ND	0.0050	0.00078	02/17/21 19:30	
Barium	mg/L	ND	0.010	0.00071	02/17/21 19:30	
Beryllium	mg/L	ND	0.0030	0.000046	02/17/21 19:30	
Cadmium	mg/L	ND	0.0025	0.00012	02/17/21 19:30	
Chromium	mg/L	ND	0.010	0.00055	02/17/21 19:30	
Cobalt	mg/L	ND	0.0050	0.00038	02/17/21 19:30	
Lead	mg/L	ND	0.0050	0.000036	02/17/21 19:30	
Lithium	mg/L	ND	0.030	0.00081	02/17/21 19:30	
Molybdenum	mg/L	ND	0.010	0.00069	02/17/21 19:30	
Selenium	mg/L	ND	0.010	0.0016	02/17/21 19:30	
Thallium	mg/L	ND	0.0010	0.00014	02/17/21 19:30	

LABORATORY CONTROL SAMPLE: 3165606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3165608 3165611

Parameter	Units	92521581005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	111	109	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: YATES AMA
Pace Project No.: 92521581

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3165608 3165611

Parameter	Units	92521581005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.10	0.098	101	98	75-125	3	20	
Barium	mg/L	0.032	0.1	0.1	0.14	0.13	103	98	75-125	4	20	
Beryllium	mg/L	0.00021J	0.1	0.1	0.092	0.093	92	93	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	102	100	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.11	0.10	105	103	75-125	2	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.099	103	99	75-125	4	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	2	20	
Lithium	mg/L	ND	0.1	0.1	0.092	0.096	92	96	75-125	4	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.098	0.095	96	94	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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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES AMA
Pace Project No.: 92521581

QC Batch: 600920
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92521583002

METHOD BLANK: 3167301 Matrix: Water
Associated Lab Samples: 92521583002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	02/19/21 18:52	
Arsenic	mg/L	ND	0.0050	0.00078	02/19/21 18:52	
Barium	mg/L	ND	0.010	0.00071	02/19/21 18:52	
Beryllium	mg/L	ND	0.0030	0.000046	02/19/21 18:52	
Cadmium	mg/L	ND	0.0025	0.00012	02/19/21 18:52	
Chromium	mg/L	ND	0.010	0.00055	02/19/21 18:52	
Cobalt	mg/L	ND	0.0050	0.00038	02/19/21 18:52	
Lead	mg/L	ND	0.0050	0.000036	02/19/21 18:52	
Lithium	mg/L	ND	0.030	0.00081	02/19/21 18:52	
Molybdenum	mg/L	ND	0.010	0.00069	02/19/21 18:52	
Selenium	mg/L	ND	0.010	0.0016	02/19/21 18:52	
Thallium	mg/L	ND	0.0010	0.00014	02/19/21 18:52	

LABORATORY CONTROL SAMPLE: 3167302

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	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	105	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3167303 3167304

Parameter	Units	92521583001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.00035J	0.1	0.1	0.12	0.11	117	110	75-125	5	20	
Arsenic	mg/L	0.0015J	0.1	0.1	0.11	0.10	106	103	75-125	2	20	
Barium	mg/L	0.036	0.1	0.1	0.14	0.13	104	95	75-125	7	20	
Beryllium	mg/L	0.00029J	0.1	0.1	0.095	0.088	95	88	75-125	7	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES AMA
Pace Project No.: 92521581

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3167303 3167304

Parameter	Units	92521583001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	mg/L	0.00042J	0.1	0.1	0.10	0.10	102	101	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.11	0.10	106	104	75-125	1	20	
Cobalt	mg/L	0.0023J	0.1	0.1	0.10	0.10	103	102	75-125	0	20	
Lead	mg/L	0.000088J	0.1	0.1	0.099	0.097	99	97	75-125	2	20	
Lithium	mg/L	0.024J	0.1	0.1	0.12	0.11	98	88	75-125	8	20	
Molybdenum	mg/L	0.0016J	0.1	0.1	0.11	0.11	108	108	75-125	1	20	
Selenium	mg/L	0.28	0.1	0.1	0.38	0.37	106	92	75-125	4	20	
Thallium	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: YATES AMA
Pace Project No.: 92521581

QC Batch: 601867
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92521578001, 92521578002, 92521578003, 92521578010, 92521578011

METHOD BLANK: 3171184 Matrix: Water
Associated Lab Samples: 92521578001, 92521578002, 92521578003, 92521578010, 92521578011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	02/23/21 20:30	
Arsenic	mg/L	ND	0.0050	0.00078	02/23/21 20:30	
Barium	mg/L	ND	0.010	0.00071	02/23/21 20:30	
Beryllium	mg/L	ND	0.0030	0.000046	02/23/21 20:30	
Cadmium	mg/L	ND	0.0025	0.00012	02/23/21 20:30	
Chromium	mg/L	ND	0.010	0.00055	02/23/21 20:30	
Cobalt	mg/L	ND	0.0050	0.00038	02/23/21 20:30	
Lead	mg/L	ND	0.0050	0.000036	02/23/21 20:30	
Lithium	mg/L	ND	0.030	0.00081	02/23/21 20:30	
Molybdenum	mg/L	ND	0.010	0.00069	02/23/21 20:30	
Selenium	mg/L	ND	0.010	0.0016	02/23/21 20:30	
Thallium	mg/L	ND	0.0010	0.00014	02/23/21 20:30	

LABORATORY CONTROL SAMPLE: 3171185

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	108	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.090	90	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3171186 3171187

Parameter	Units	92521578009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	110	108	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Barium	mg/L	0.078	0.1	0.1	0.18	0.18	105	99	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.093	0.096	93	96	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES AMA
Pace Project No.: 92521581

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3171186 3171187

Parameter	Units	92521578009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Cadmium	mg/L	0.00052J	0.1	0.1	0.10	0.10	103	104	75-125	0	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.097	100	97	75-125	2	20	
Lithium	mg/L	0.0070J	0.1	0.1	0.10	0.10	93	93	75-125	1	20	
Molybdenum	mg/L	0.0012J	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.092	0.091	92	91	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.097	0.095	97	95	75-125	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3171188 3171189

Parameter	Units	92521578011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.11	103	106	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.093	0.096	93	96	75-125	3	20	
Barium	mg/L	0.0057J	0.1	0.1	0.10	0.10	95	97	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.090	0.093	90	93	75-125	4	20	
Cadmium	mg/L	ND	0.1	0.1	0.098	0.10	98	103	75-125	5	20	
Chromium	mg/L	ND	0.1	0.1	0.096	0.099	96	98	75-125	3	20	
Cobalt	mg/L	0.00086J	0.1	0.1	0.093	0.097	92	96	75-125	4	20	
Lead	mg/L	0.000044J	0.1	0.1	0.094	0.098	94	98	75-125	3	20	
Lithium	mg/L	0.010J	0.1	0.1	0.10	0.11	90	96	75-125	5	20	
Molybdenum	mg/L	0.0080J	0.1	0.1	0.10	0.11	95	99	75-125	3	20	
Selenium	mg/L	ND	0.1	0.1	0.086	0.089	86	89	75-125	3	20	
Thallium	mg/L	ND	0.1	0.1	0.092	0.095	92	95	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES AMA
Pace Project No.: 92521581

QC Batch: 600023
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92521578001, 92521578002, 92521578003, 92521583002

METHOD BLANK: 3163248 Matrix: Water
Associated Lab Samples: 92521578001, 92521578002, 92521578003, 92521583002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	02/16/21 11:30	

LABORATORY CONTROL SAMPLE: 3163249

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3163250 3163251

Parameter	Units	92521578009 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	94	92	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES AMA
Pace Project No.: 92521581

QC Batch: 600356
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92521581001, 92521581002, 92521581003, 92521581004, 92521581005, 92521581006, 92521581007, 92521581008, 92521581009, 92521581010, 92521581011, 92521581012, 92521581013, 92521581014, 92521581015, 92521581016, 92521581017

METHOD BLANK: 3164655 Matrix: Water
Associated Lab Samples: 92521581001, 92521581002, 92521581003, 92521581004, 92521581005, 92521581006, 92521581007, 92521581008, 92521581009, 92521581010, 92521581011, 92521581012, 92521581013, 92521581014, 92521581015, 92521581016, 92521581017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	02/18/21 11:24	

LABORATORY CONTROL SAMPLE: 3164656

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3164657 3164658

Parameter	Units	92521581005 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	0.0024	97	96	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES AMA
Pace Project No.: 92521581

QC Batch: 601295
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92521578010, 92521578011

METHOD BLANK: 3168813 Matrix: Water
Associated Lab Samples: 92521578010, 92521578011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	02/23/21 13:14	

LABORATORY CONTROL SAMPLE: 3168814

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: 3168815 3168816

Parameter	Units	92521578011 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	89	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES AMA
Pace Project No.: 92521581

QC Batch: 599663 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: 92521578001, 92521578002, 92521578003, 92521581001, 92521581002, 92521581003, 92521581004, 92521581005, 92521581006, 92521581007, 92521581008, 92521581009, 92521581010

METHOD BLANK: 3161251 Matrix: Water
Associated Lab Samples: 92521578001, 92521578002, 92521578003, 92521581001, 92521581002, 92521581003, 92521581004, 92521581005, 92521581006, 92521581007, 92521581008, 92521581009, 92521581010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	02/12/21 20:16	

LABORATORY CONTROL SAMPLE: 3161252

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.6	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3161253 3161254

Parameter	Units	92521574009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	109	108	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3161255 3161256

Parameter	Units	92521581005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	2.5	2.7	100	108	90-110	8	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES AMA
Pace Project No.: 92521581

QC Batch: 599664
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92521581011, 92521581012, 92521581013, 92521581014, 92521581015, 92521581016, 92521581017, 92521583002

METHOD BLANK: 3161257 Matrix: Water
Associated Lab Samples: 92521581011, 92521581012, 92521581013, 92521581014, 92521581015, 92521581016, 92521581017, 92521583002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	02/12/21 15:24	

LABORATORY CONTROL SAMPLE: 3161258

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.6	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3161259 3161260

Parameter	Units	92521578009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	0.066J	2.5	2.5	2.4	2.5	93	99	90-110	6	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3161575 3161576

Parameter	Units	92521143010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	0.21	2.5	2.5	2.3	2.5	84	91	90-110	7	10	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES AMA
Pace Project No.: 92521581

QC Batch: 600235
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92521578010, 92521578011

METHOD BLANK: 3164171 Matrix: Water
Associated Lab Samples: 92521578010, 92521578011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	02/16/21 14:16	

LABORATORY CONTROL SAMPLE: 3164172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.4	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3164173 3164174

Parameter	Units	92522138001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	95	97	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3164175 3164176

Parameter	Units	92521578011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	0.068J	2.5	2.5	2.6	2.6	100	100	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: YATES AMA
Pace Project No.: 92521581

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.

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.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AMA
Pace Project No.: 92521581

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92521578002	YGWA-14S (021021)				
92521581003	YGWA-5I (020821)				
92521581004	YGWA-39 (021021)				
92521581005	YGWA-40 (021021)				
92521581007	YGWA-20S (020921)				
92521581008	YGWA-4I(020921)				
92521581009	YGWA-17S(020921)				
92521581010	YGWA-18S(020921)				
92521581011	YGWA-18I(020921)				
92521581012	YGWA-21I(020921)				
92521583002	YGWA-2I(021021)				
92521581013	YGWA-3I(021021)				
92521581014	YGWA-3D(021021)				
92521581015	YGWA-30I(021121)				
92521578010	YGWA-1I (021221)				
92521578011	YGWA-1D (021221)				
92521578001	EB-02 (021021)	EPA 3005A	601867	EPA 6020B	601989
92521578002	YGWA-14S (021021)	EPA 3005A	601867	EPA 6020B	601989
92521578003	DUP-1 (021021)	EPA 3005A	601867	EPA 6020B	601989
92521581001	YGWA-5D (020821)	EPA 3005A	600633	EPA 6020B	600737
92521581002	DUP-01(020821)	EPA 3005A	600633	EPA 6020B	600737
92521581003	YGWA-5I (020821)	EPA 3005A	600633	EPA 6020B	600737
92521581004	YGWA-39 (021021)	EPA 3005A	600633	EPA 6020B	600737
92521581005	YGWA-40 (021021)	EPA 3005A	600633	EPA 6020B	600737
92521581006	FB-01(021021)	EPA 3005A	600633	EPA 6020B	600737
92521581007	YGWA-20S (020921)	EPA 3005A	600633	EPA 6020B	600737
92521581008	YGWA-4I(020921)	EPA 3005A	600633	EPA 6020B	600737
92521581009	YGWA-17S(020921)	EPA 3005A	600633	EPA 6020B	600737
92521581010	YGWA-18S(020921)	EPA 3005A	600633	EPA 6020B	600737
92521581011	YGWA-18I(020921)	EPA 3005A	600633	EPA 6020B	600737
92521581012	YGWA-21I(020921)	EPA 3005A	600633	EPA 6020B	600737
92521583002	YGWA-2I(021021)	EPA 3005A	600920	EPA 6020B	601040
92521581013	YGWA-3I(021021)	EPA 3005A	600633	EPA 6020B	600737
92521581014	YGWA-3D(021021)	EPA 3005A	600633	EPA 6020B	600737
92521581015	YGWA-30I(021121)	EPA 3005A	600633	EPA 6020B	600737
92521581016	FB-01(021121)	EPA 3005A	600633	EPA 6020B	600737
92521581017	EB-01(021121)	EPA 3005A	600633	EPA 6020B	600737
92521578010	YGWA-1I (021221)	EPA 3005A	601867	EPA 6020B	601989
92521578011	YGWA-1D (021221)	EPA 3005A	601867	EPA 6020B	601989
92521578001	EB-02 (021021)	EPA 7470A	600023	EPA 7470A	600226
92521578002	YGWA-14S (021021)	EPA 7470A	600023	EPA 7470A	600226
92521578003	DUP-1 (021021)	EPA 7470A	600023	EPA 7470A	600226
92521581001	YGWA-5D (020821)	EPA 7470A	600356	EPA 7470A	600864
92521581002	DUP-01(020821)	EPA 7470A	600356	EPA 7470A	600864
92521581003	YGWA-5I (020821)	EPA 7470A	600356	EPA 7470A	600864

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AMA
Pace Project No.: 92521581

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92521581004	YGWA-39 (021021)	EPA 7470A	600356	EPA 7470A	600864
92521581005	YGWA-40 (021021)	EPA 7470A	600356	EPA 7470A	600864
92521581006	FB-01(021021)	EPA 7470A	600356	EPA 7470A	600864
92521581007	YGWA-20S (020921)	EPA 7470A	600356	EPA 7470A	600864
92521581008	YGWA-4I(020921)	EPA 7470A	600356	EPA 7470A	600864
92521581009	YGWA-17S(020921)	EPA 7470A	600356	EPA 7470A	600864
92521581010	YGWA-18S(020921)	EPA 7470A	600356	EPA 7470A	600864
92521581011	YGWA-18I(020921)	EPA 7470A	600356	EPA 7470A	600864
92521581012	YGWA-21I(020921)	EPA 7470A	600356	EPA 7470A	600864
92521583002	YGWA-2I(021021)	EPA 7470A	600023	EPA 7470A	600226
92521581013	YGWA-3I(021021)	EPA 7470A	600356	EPA 7470A	600864
92521581014	YGWA-3D(021021)	EPA 7470A	600356	EPA 7470A	600864
92521581015	YGWA-30I(021121)	EPA 7470A	600356	EPA 7470A	600864
92521581016	FB-01(021121)	EPA 7470A	600356	EPA 7470A	600864
92521581017	EB-01(021121)	EPA 7470A	600356	EPA 7470A	600864
92521578010	YGWA-1I (021221)	EPA 7470A	601295	EPA 7470A	601814
92521578011	YGWA-1D (021221)	EPA 7470A	601295	EPA 7470A	601814
92521578001	EB-02 (021021)	EPA 300.0 Rev 2.1 1993	599663		
92521578002	YGWA-14S (021021)	EPA 300.0 Rev 2.1 1993	599663		
92521578003	DUP-1 (021021)	EPA 300.0 Rev 2.1 1993	599663		
92521581001	YGWA-5D (020821)	EPA 300.0 Rev 2.1 1993	599663		
92521581002	DUP-01(020821)	EPA 300.0 Rev 2.1 1993	599663		
92521581003	YGWA-5I (020821)	EPA 300.0 Rev 2.1 1993	599663		
92521581004	YGWA-39 (021021)	EPA 300.0 Rev 2.1 1993	599663		
92521581005	YGWA-40 (021021)	EPA 300.0 Rev 2.1 1993	599663		
92521581006	FB-01(021021)	EPA 300.0 Rev 2.1 1993	599663		
92521581007	YGWA-20S (020921)	EPA 300.0 Rev 2.1 1993	599663		
92521581008	YGWA-4I(020921)	EPA 300.0 Rev 2.1 1993	599663		
92521581009	YGWA-17S(020921)	EPA 300.0 Rev 2.1 1993	599663		
92521581010	YGWA-18S(020921)	EPA 300.0 Rev 2.1 1993	599663		
92521581011	YGWA-18I(020921)	EPA 300.0 Rev 2.1 1993	599664		
92521581012	YGWA-21I(020921)	EPA 300.0 Rev 2.1 1993	599664		
92521583002	YGWA-2I(021021)	EPA 300.0 Rev 2.1 1993	599664		
92521581013	YGWA-3I(021021)	EPA 300.0 Rev 2.1 1993	599664		
92521581014	YGWA-3D(021021)	EPA 300.0 Rev 2.1 1993	599664		
92521581015	YGWA-30I(021121)	EPA 300.0 Rev 2.1 1993	599664		
92521581016	FB-01(021121)	EPA 300.0 Rev 2.1 1993	599664		
92521581017	EB-01(021121)	EPA 300.0 Rev 2.1 1993	599664		
92521578010	YGWA-1I (021221)	EPA 300.0 Rev 2.1 1993	600235		
92521578011	YGWA-1D (021221)	EPA 300.0 Rev 2.1 1993	600235		

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	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# : 92521581

92521581

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☑ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/10/21

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: 2.1 **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): 2.1

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

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CHAIN-OF-CUSTODY / Analytical Request Document

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coc 3

Section A	Section B	Section C
Required Client Information:	Required Project Information:	Invoice Information:
Company: Georgia Power	Report To: Becky Sleever	Attention:
Address: 1070 Bridge Mill Ave	Copy To:	Company Name:
Acton, GA 30114		Address:
Email:	Purchase Order #:	Pace Quote:
Phone: (770)384-6526 Fax:	Project Name: Yates AMA	Pace Project Manager: kevin.herring@pacelabs.com
Requested Due Date:	Project #:	Pace Profile #: 10640

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	
13	YGWA-5D	WT	G	02/05/24	1645			4											X	X	X		G252561
14		WT																	X	X	X		
15		WT																	X	X	X		
16		WT																	X	X	X		
17		WT																	X	X	X		
18		WT																	X	X	X		
19		WT																	X	X	X		
20		WT																	X	X	X		
21																							
22																							
23																							
24																							

MATRIX Codes: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
				Charles Hentz	2/10/24	1710	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Peter Arguelles

SIGNATURE of SAMPLER: [signature]

DATE Signed: 02/10/2024

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

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C043

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Georgia Power	Report To: Becky Steever	Attention:
Address: 1070 Bridge Mill Ave Canton, GA 30114	Copy To:	Company Name:
Email:	Purchase Order #:	Address:
Phone: (770)384-6526 Fax	Project Name: Yates AMA	Pace Quote:
Requested Due Date:	Project #:	Pace Project Manager: kevin.herring@pacelabs.com,
		Pace Profile #: 10840

Regulatory Agency: GA

State / Location:

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~YGWA-41~~ DUP-01(020821)	WT		2-8-21	—				4	/		/						x	x	x		—
2	YGWA-5I	WT		2-8-21	1620				4	/		/						x	x	x		pH: 5.67
3	~~YGWA-39~~ YGWA-39	WT		2-10-21	0930				4	/		/						x	x	x		— pH: 5.80
4	~~YGWA-40~~ YGWA-40	WT		2-10-21	1050				12	/		/						x	x	x		— pH: 5.19 MS/MSD
5	~~YGWA-49S~~ FB-01(021021)	WT		2-10-21	1105				4	/		/						x	x	x		—
6	~~YGWA-20I~~	WT																x	x	x		—
7	YGWA-20S	WT		2-9-21	1650				4	/		/						x	x	x		pH: 5.80
8	~~YGWA-24I~~	WT																x	x	x		—
9	~~YGWA-24S~~	WT		~~2-9-21~~	~~1110~~				~~4~~	~~A~~		~~A~~						x	x	x		~~pH: 5.84~~
10	~~YGWA-21GA~~	WT																x	x	x		—
11	~~YGWA-39A~~	WT																x	x	x		—
12	~~YGWA-40A~~	WT																x	x	x		—

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Katie Rykiewicz/Arcadis	21021	1512	Charles Hunter	2/10/21	1710	

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Katie Rykiewicz		
SIGNATURE of SAMPLER:	Katie Rykiewicz	DATE Signed:	2-9-2021

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

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CHAIN-OF-CUSTODY / Analytical Request Document

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Section A
Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Marietta, GA 30114
Email:
Phone: (770)384-5526 Fax
Requested Due Date:

Section B
Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates AMA
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (N/A)	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	
																		N/A					422521581
1	YGWA-4I (020921)	WT		2/9	0850				4	N		X							X	X	X		pH 6.06
2	~~YGWA-6S~~	WT																	X	X	X		
3	~~YGWC-9D~~	WT																	X	X	X		
4	YGWA-17S (020921)	WT		2/9	1115				4	N		X							X	X	X		pH 5.62
5	YGWA-18S (020921)	WT		2/9	1325				4	X		X							X	X	X		pH 6.12 5.43
6	YGWA-18I (020921)	WT		2/9	1440				4	X		X							X	X	X		pH 6.12
7	~~YGWA-20S~~	WT																	X	X	X		
8	YGWA-21I (020921)	WT		2/9	1610				4	X		X							X	X	X		pH 6.95
9	~~YGWC-23S~~	WT																	X	X	X		
10	~~YGWC-24A~~	WT																	X	X	X		
11	YGWC-26A	WT																	X	X	X		
12	~~YGWC-28~~ (020921)	WT		2/9	1556				4	X		X							X	X	X		pH

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	B Steever / Arcadis	2/10/21	1500	Peter Angradis	2/10/21	1500	
				Chase Hanks	2/10/21	1710	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Becky Steever
SIGNATURE of SAMPLER:
DATE Signed: 2/10/21

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

CHAIN-OF-CUSTODY / Analytical Request Document

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CoC B

Section A
Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Marietta, GA 30114
Email:
Phone: (770)384-6526 Fax
Requested Due Date:

Section B
Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: [redacted] AP-2
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com
Pace Profile #: 10840

Regulatory Agency
State / Location: GA

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: Y/N	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	
1	[redacted] 46WA-BI (021021)	WT		2/10	1140				4	X		X							X	X	X			92521581
2	[redacted] 46WA-BD (021021)	WT		2/10	1225				4	X		X							X	X	X			pH 7.53 013
3	[redacted]	WT																	X	X	X			pH 7.81 014
4	[redacted]	WT																	X	X	X			
5	[redacted]	WT																	X	X	X			
6	[redacted]	WT																	X	X	X			
7																								
8																								
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[redacted]			Charles Hood	2/11/21	1307	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Becky Steever
SIGNATURE of SAMPLER:
DATE Signed: 2/11/21

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

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Coc 3

Section A
Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
nton, GA 30114
Email:
Phone: (770)384-6526 Fax
Requested Due Date:

Section B
Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates AP-2
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~YGWA-01~~	WT																	X	X	X		
2	~~YGWA-02~~	WT																	X	X	X		
3	~~YGWA-03~~	WT																	X	X	X		
4	~~YGWA-04~~	WT																	X	X	X		
5	~~YGWA-05~~	WT																	X	X	X		
6	~~YGWA-06~~	WT																	X	X	X		
7	YGWA-301 (021121)	WT		2-1-21	0950				4	/		/							X	X	X		pH 5.73
8	~~YGWC-302~~ FB-01 (021121)	WT		2-1-21	1000				4	/		/							X	X	X		015
9	~~YGWC-303~~ EB-01 (021121)	WT		2-1-21	1305				4	/		/							X	X	X		016
10	~~YGWC-03a~~	WT																	X	X	X		017
11	~~YGWC-04a~~	WT																	X	X	X		
12	~~YGWC-05a~~	WT																	X	X	X		

MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS

92521581

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
				Charles Henley	2/1/21	1303	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Katie Pyrkiewicz
SIGNATURE of SAMPLER:
DATE Signed: 2-1-21

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

February 25, 2021

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

RE: Project: YATES AP-2
Pace Project No.: 92521578

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 10, 2021 and February 12, 2021. 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,

Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: YATES AP-2
Pace Project No.: 92521578

Pace Analytical Services Charlotte
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
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 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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: YATES AP-2
Pace Project No.: 92521578

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92521578004	**YGWC-26S (021021)**	Water	02/10/21 10:00	02/10/21 17:10
92521578005	**YGWC-26I (021021)**	Water	02/10/21 11:00	02/10/21 17:10
92521578006	**YGWC-27S (021021)**	Water	02/10/21 12:10	02/10/21 17:10
92521578007	**YGWC-27I (021021)**	Water	02/10/21 13:15	02/10/21 17:10
92521578008	**DUP-2 (021021)**	Water	02/10/21 00:00	02/10/21 17:10
92521578009	**YGWC-28I(021121)**	Water	02/11/21 09:40	02/11/21 13:03
92521578012	**YGWC-28S (021221)**	Water	02/12/21 15:20	02/12/21 17:10
92521578013	**YGWC-29I (021221)**	Water	02/12/21 14:20	02/12/21 17:10
92521578014	**EB-02 (021221)**	Water	02/12/21 15:30	02/12/21 17:10

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES AP-2
Pace Project No.: 92521578

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92521578004	**YGWC-26S (021021)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521578005	**YGWC-26I (021021)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521578006	**YGWC-27S (021021)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521578007	**YGWC-27I (021021)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521578008	**DUP-2 (021021)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521578009	**YGWC-28I(021121)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	CDC	1
92521578012	**YGWC-28S (021221)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	JLH	1
92521578013	**YGWC-29I (021221)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	JLH	1
92521578014	**EB-02 (021221)**	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		EPA 300.0 Rev 2.1 1993	JLH	1

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: YATES AP-2
Pace Project No.: 92521578

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521578004	**YGWC-26S (021021)**					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	5.18	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.031	mg/L	0.010	02/23/21 20:58	
EPA 6020B	Beryllium	0.00013J	mg/L	0.0030	02/23/21 20:58	
EPA 6020B	Chromium	0.00091J	mg/L	0.010	02/23/21 20:58	
EPA 6020B	Cobalt	0.0017J	mg/L	0.0050	02/23/21 20:58	
EPA 6020B	Lead	0.000050J	mg/L	0.0050	02/23/21 20:58	
92521578005	**YGWC-26I (021021)**					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	5.96	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.060	mg/L	0.010	02/23/21 21:04	
EPA 6020B	Chromium	0.00065J	mg/L	0.010	02/23/21 21:04	
EPA 6020B	Lead	0.000051J	mg/L	0.0050	02/23/21 21:04	
EPA 6020B	Lithium	0.0067J	mg/L	0.030	02/23/21 21:04	
EPA 6020B	Selenium	0.0026J	mg/L	0.010	02/23/21 21:04	
EPA 300.0 Rev 2.1 1993	Fluoride	0.050J	mg/L	0.10	02/12/21 23:09	
92521578006	**YGWC-27S (021021)**					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	6.21	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.088	mg/L	0.010	02/23/21 21:10	
EPA 6020B	Beryllium	0.000066J	mg/L	0.0030	02/23/21 21:10	
EPA 6020B	Chromium	0.0027J	mg/L	0.010	02/23/21 21:10	
EPA 6020B	Cobalt	0.0025J	mg/L	0.0050	02/23/21 21:10	
EPA 6020B	Lead	0.00072J	mg/L	0.0050	02/23/21 21:10	
EPA 6020B	Lithium	0.00081J	mg/L	0.030	02/23/21 21:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.084J	mg/L	0.10	02/12/21 23:23	
92521578007	**YGWC-27I (021021)**					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	6.29	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.080	mg/L	0.010	02/23/21 21:15	
EPA 6020B	Beryllium	0.00014J	mg/L	0.0030	02/23/21 21:15	
EPA 6020B	Cobalt	0.0048J	mg/L	0.0050	02/23/21 21:15	
EPA 6020B	Lithium	0.0067J	mg/L	0.030	02/23/21 21:15	
EPA 6020B	Molybdenum	0.0016J	mg/L	0.010	02/23/21 21:15	
EPA 300.0 Rev 2.1 1993	Fluoride	0.055J	mg/L	0.10	02/12/21 23:38	
92521578008	**DUP-2 (021021)**					
EPA 6020B	Barium	0.062	mg/L	0.010	02/23/21 21:21	
EPA 6020B	Chromium	0.00068J	mg/L	0.010	02/23/21 21:21	
EPA 6020B	Lead	0.000049J	mg/L	0.0050	02/23/21 21:21	
EPA 6020B	Lithium	0.0073J	mg/L	0.030	02/23/21 21:21	
EPA 6020B	Selenium	0.0024J	mg/L	0.010	02/23/21 21:21	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: YATES AP-2
Pace Project No.: 92521578

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521578009	**YGWC-28I(021121)**					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	6.57	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.078	mg/L	0.010	02/23/21 21:38	
EPA 6020B	Cadmium	0.00052J	mg/L	0.0025	02/23/21 21:38	
EPA 6020B	Lithium	0.0070J	mg/L	0.030	02/23/21 21:38	
EPA 6020B	Molybdenum	0.0012J	mg/L	0.010	02/23/21 21:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.066J	mg/L	0.10	02/12/21 18:52	
92521578012	**YGWC-28S (021221)**					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	6.60	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.057	mg/L	0.010	02/23/21 22:24	
EPA 6020B	Cadmium	0.00048J	mg/L	0.0025	02/23/21 22:24	
EPA 6020B	Lead	0.000052J	mg/L	0.0050	02/23/21 22:24	
EPA 6020B	Lithium	0.0053J	mg/L	0.030	02/23/21 22:24	
EPA 300.0 Rev 2.1 1993	Fluoride	0.069J	mg/L	0.10	02/16/21 19:46	
92521578013	**YGWC-29I (021221)**					
	Performed by	CUSTOMER			02/23/21 08:11	
	pH	6.24	Std. Units		02/23/21 08:11	
EPA 6020B	Barium	0.21	mg/L	0.010	02/23/21 22:30	
EPA 6020B	Cobalt	0.00094J	mg/L	0.0050	02/23/21 22:30	
EPA 6020B	Lead	0.000066J	mg/L	0.0050	02/23/21 22:30	
EPA 6020B	Molybdenum	0.00083J	mg/L	0.010	02/23/21 22:30	
EPA 300.0 Rev 2.1 1993	Fluoride	0.17	mg/L	0.10	02/16/21 20:01	

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92521578

Sample: YGWC-26S (021021) **Lab ID: 92521578004** Collected: 02/10/21 10:00 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	**5.18**	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 20:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 20:58	7440-38-2	
Barium	**0.031**	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 20:58	7440-39-3	
Beryllium	**0.00013J**	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 20:58	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 20:58	7440-43-9	
Chromium	**0.00091J**	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 20:58	7440-47-3	
Cobalt	**0.0017J**	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 20:58	7440-48-4	
Lead	**0.000050J**	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 20:58	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 20:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 20:58	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 20:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 20:58	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:49	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 22:54	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92521578

Sample: YGWC-26I (021021) **Lab ID: 92521578005** Collected: 02/10/21 11:00 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	**5.96**	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 21:04	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 21:04	7440-38-2	
Barium	**0.060**	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 21:04	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 21:04	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 21:04	7440-43-9	
Chromium	**0.00065J**	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 21:04	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 21:04	7440-48-4	
Lead	**0.000051J**	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 21:04	7439-92-1	
Lithium	**0.0067J**	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 21:04	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 21:04	7439-98-7	
Selenium	**0.0026J**	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 21:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 21:04	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:51	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.050J**	mg/L	0.10	0.050	1		02/12/21 23:09	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92521578

Sample: YGWC-27S (021021) **Lab ID: 92521578006** Collected: 02/10/21 12:10 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	**6.21**	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 21:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 21:10	7440-38-2	
Barium	**0.088**	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 21:10	7440-39-3	
Beryllium	**0.000066J**	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 21:10	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 21:10	7440-43-9	
Chromium	**0.0027J**	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 21:10	7440-47-3	
Cobalt	**0.0025J**	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 21:10	7440-48-4	
Lead	**0.00072J**	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 21:10	7439-92-1	
Lithium	**0.00081J**	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 21:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 21:10	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 21:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 21:10	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:54	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.084J**	mg/L	0.10	0.050	1		02/12/21 23:23	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92521578

Sample: YGWC-27I (021021) **Lab ID: 92521578007** Collected: 02/10/21 13:15 Received: 02/10/21 17:10 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		02/23/21 08:11		
pH	**6.29**	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 21:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 21:15	7440-38-2	
Barium	**0.080**	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 21:15	7440-39-3	
Beryllium	**0.00014J**	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 21:15	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 21:15	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 21:15	7440-47-3	
Cobalt	**0.0048J**	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 21:15	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 21:15	7439-92-1	
Lithium	**0.0067J**	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 21:15	7439-93-2	
Molybdenum	**0.0016J**	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 21:15	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 21:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 21:15	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:56	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.055J**	mg/L	0.10	0.050	1		02/12/21 23:38	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92521578

Sample: DUP-2 (021021) **Lab ID: 92521578008** Collected: 02/10/21 00:00 Received: 02/10/21 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 21:21	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 21:21	7440-38-2	
Barium	**0.062**	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 21:21	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 21:21	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 21:21	7440-43-9	
Chromium	**0.00068J**	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 21:21	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 21:21	7440-48-4	
Lead	**0.000049J**	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 21:21	7439-92-1	
Lithium	**0.0073J**	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 21:21	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 21:21	7439-98-7	
Selenium	**0.0024J**	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 21:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 21:21	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 11:59	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		02/12/21 23:52	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92521578

Sample: YGWC-28I(021121) **Lab ID: 92521578009** Collected: 02/11/21 09:40 Received: 02/11/21 13:03 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		02/23/21 08:11		
pH	**6.57**	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 21:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 21:38	7440-38-2	
Barium	**0.078**	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 21:38	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 21:38	7440-41-7	
Cadmium	**0.00052J**	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 21:38	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 21:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 21:38	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 21:38	7439-92-1	
Lithium	**0.0070J**	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 21:38	7439-93-2	
Molybdenum	**0.0012J**	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 21:38	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 21:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 21:38	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	02/15/21 15:30	02/16/21 12:25	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.066J**	mg/L	0.10	0.050	1		02/12/21 18:52	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92521578

Sample: YGWC-28S (021221) **Lab ID: 92521578012** Collected: 02/12/21 15:20 Received: 02/12/21 17:10 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		02/23/21 08:11		
pH	**6.60**	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 22:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 22:24	7440-38-2	
Barium	**0.057**	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 22:24	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 22:24	7440-41-7	
Cadmium	**0.00048J**	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 22:24	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 22:24	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 22:24	7440-48-4	
Lead	**0.000052J**	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 22:24	7439-92-1	
Lithium	**0.0053J**	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 22:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 22:24	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 22:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 22:24	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	02/22/21 02:15	02/23/21 14:00	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.069J**	mg/L	0.10	0.050	1		02/16/21 19:46	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92521578

Sample: YGWC-29I (021221) **Lab ID: 92521578013** Collected: 02/12/21 14:20 Received: 02/12/21 17:10 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		02/23/21 08:11		
pH	**6.24**	Std. Units			1		02/23/21 08:11		
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 22:30	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 22:30	7440-38-2	
Barium	**0.21**	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 22:30	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 22:30	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 22:30	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 22:30	7440-47-3	
Cobalt	**0.00094J**	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 22:30	7440-48-4	
Lead	**0.000066J**	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 22:30	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 22:30	7439-93-2	
Molybdenum	**0.00083J**	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 22:30	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 22:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 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	0.00050	0.000078	1	02/22/21 02:15	02/23/21 14:02	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	**0.17**	mg/L	0.10	0.050	1		02/16/21 20:01	16984-48-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92521578

Sample: EB-02 (021221) **Lab ID: 92521578014** Collected: 02/12/21 15:30 Received: 02/12/21 17:10 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	02/23/21 10:38	02/23/21 22:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	02/23/21 10:38	02/23/21 22:53	7440-38-2	
Barium	ND	mg/L	0.010	0.00071	1	02/23/21 10:38	02/23/21 22:53	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	02/23/21 10:38	02/23/21 22:53	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00012	1	02/23/21 10:38	02/23/21 22:53	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	02/23/21 10:38	02/23/21 22:53	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	02/23/21 10:38	02/23/21 22:53	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	02/23/21 10:38	02/23/21 22:53	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	02/23/21 10:38	02/23/21 22:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	02/23/21 10:38	02/23/21 22:53	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	02/23/21 10:38	02/23/21 22:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	02/23/21 10:38	02/23/21 22:53	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00050	0.000078	1	02/22/21 02:15	02/23/21 14:04	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Fluoride	ND	mg/L	0.10	0.050	1		02/16/21 20:16	16984-48-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92521578

QC Batch: 601867
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92521578004, 92521578005, 92521578006, 92521578007, 92521578008, 92521578009, 92521578012, 92521578013, 92521578014

METHOD BLANK: 3171184 Matrix: Water
Associated Lab Samples: 92521578004, 92521578005, 92521578006, 92521578007, 92521578008, 92521578009, 92521578012, 92521578013, 92521578014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	02/23/21 20:30	
Arsenic	mg/L	ND	0.0050	0.00078	02/23/21 20:30	
Barium	mg/L	ND	0.010	0.00071	02/23/21 20:30	
Beryllium	mg/L	ND	0.0030	0.000046	02/23/21 20:30	
Cadmium	mg/L	ND	0.0025	0.00012	02/23/21 20:30	
Chromium	mg/L	ND	0.010	0.00055	02/23/21 20:30	
Cobalt	mg/L	ND	0.0050	0.00038	02/23/21 20:30	
Lead	mg/L	ND	0.0050	0.000036	02/23/21 20:30	
Lithium	mg/L	ND	0.030	0.00081	02/23/21 20:30	
Molybdenum	mg/L	ND	0.010	0.00069	02/23/21 20:30	
Selenium	mg/L	ND	0.010	0.0016	02/23/21 20:30	
Thallium	mg/L	ND	0.0010	0.00014	02/23/21 20:30	

LABORATORY CONTROL SAMPLE: 3171185

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	108	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Cadmium	mg/L	0.1	0.10	103	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.090	90	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3171186 3171187

Parameter	Units	92521578009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	110	108	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Barium	mg/L	0.078	0.1	0.1	0.18	0.18	105	99	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92521578

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3171186 3171187

Parameter	Units	92521578009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium	mg/L	ND	0.1	0.1	0.093	0.096	93	96	75-125	2	20	
Cadmium	mg/L	0.00052J	0.1	0.1	0.10	0.10	103	104	75-125	0	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.099	0.098	99	98	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.097	100	97	75-125	2	20	
Lithium	mg/L	0.0070J	0.1	0.1	0.10	0.10	93	93	75-125	1	20	
Molybdenum	mg/L	0.0012J	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.092	0.091	92	91	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.097	0.095	97	95	75-125	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3171188 3171189

Parameter	Units	92521578011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.11	103	106	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.093	0.096	93	96	75-125	3	20	
Barium	mg/L	0.0057J	0.1	0.1	0.10	0.10	95	97	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.090	0.093	90	93	75-125	4	20	
Cadmium	mg/L	ND	0.1	0.1	0.098	0.10	98	103	75-125	5	20	
Chromium	mg/L	ND	0.1	0.1	0.096	0.099	96	98	75-125	3	20	
Cobalt	mg/L	0.00086J	0.1	0.1	0.093	0.097	92	96	75-125	4	20	
Lead	mg/L	0.000044J	0.1	0.1	0.094	0.098	94	98	75-125	3	20	
Lithium	mg/L	0.010J	0.1	0.1	0.10	0.11	90	96	75-125	5	20	
Molybdenum	mg/L	0.0080J	0.1	0.1	0.10	0.11	95	99	75-125	3	20	
Selenium	mg/L	ND	0.1	0.1	0.086	0.089	86	89	75-125	3	20	
Thallium	mg/L	ND	0.1	0.1	0.092	0.095	92	95	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92521578

QC Batch: 600023 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92521578004, 92521578005, 92521578006, 92521578007, 92521578008, 92521578009

METHOD BLANK: 3163248 Matrix: Water
Associated Lab Samples: 92521578004, 92521578005, 92521578006, 92521578007, 92521578008, 92521578009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	02/16/21 11:30	

LABORATORY CONTROL SAMPLE: 3163249

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3163250 3163251

Parameter	Units	92521578009 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	94	92	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92521578

QC Batch: 601295
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92521578012, 92521578013, 92521578014

METHOD BLANK: 3168813 Matrix: Water
Associated Lab Samples: 92521578012, 92521578013, 92521578014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.000078	02/23/21 13:14	

LABORATORY CONTROL SAMPLE: 3168814

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: 3168815 3168816

Parameter	Units	92521578011 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	89	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92521578

QC Batch: 599663 | 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: 92521578004, 92521578005, 92521578006, 92521578007, 92521578008

METHOD BLANK: 3161251 Matrix: Water
Associated Lab Samples: 92521578004, 92521578005, 92521578006, 92521578007, 92521578008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	02/12/21 20:16	

LABORATORY CONTROL SAMPLE: 3161252

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.6	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3161253 3161254

Parameter	Units	92521574009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	109	108	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3161255 3161256

Parameter	Units	92521581005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	2.5	2.7	100	108	90-110	8	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92521578

QC Batch: 599664
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92521578009

METHOD BLANK: 3161257 Matrix: Water
Associated Lab Samples: 92521578009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	02/12/21 15:24	

LABORATORY CONTROL SAMPLE: 3161258

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.6	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3161259 3161260

Parameter	Units	92521578009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	0.066J	2.5	2.5	2.4	2.5	93	99	90-110	6	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3161575 3161576

Parameter	Units	92521143010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	0.21	2.5	2.5	2.3	2.5	84	91	90-110	7	10	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92521578

QC Batch: 600235
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92521578012, 92521578013, 92521578014

METHOD BLANK: 3164171 Matrix: Water
Associated Lab Samples: 92521578012, 92521578013, 92521578014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	02/16/21 14:16	

LABORATORY CONTROL SAMPLE: 3164172

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.4	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3164173 3164174

Parameter	Units	92522138001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	95	97	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3164175 3164176

Parameter	Units	92521578011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	0.068J	2.5	2.5	2.6	2.6	100	100	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: YATES AP-2
Pace Project No.: 92521578

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.

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AP-2
Pace Project No.: 92521578

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92521578004	**YGWC-26S (021021)**				
92521578005	**YGWC-26I (021021)**				
92521578006	**YGWC-27S (021021)**				
92521578007	**YGWC-27I (021021)**				
92521578009	**YGWC-28I(021121)**				
92521578012	**YGWC-28S (021221)**				
92521578013	**YGWC-29I (021221)**				
92521578004	**YGWC-26S (021021)**	EPA 3005A	601867	EPA 6020B	601989
92521578005	**YGWC-26I (021021)**	EPA 3005A	601867	EPA 6020B	601989
92521578006	**YGWC-27S (021021)**	EPA 3005A	601867	EPA 6020B	601989
92521578007	**YGWC-27I (021021)**	EPA 3005A	601867	EPA 6020B	601989
92521578008	**DUP-2 (021021)**	EPA 3005A	601867	EPA 6020B	601989
92521578009	**YGWC-28I(021121)**	EPA 3005A	601867	EPA 6020B	601989
92521578012	**YGWC-28S (021221)**	EPA 3005A	601867	EPA 6020B	601989
92521578013	**YGWC-29I (021221)**	EPA 3005A	601867	EPA 6020B	601989
92521578014	**EB-02 (021221)**	EPA 3005A	601867	EPA 6020B	601989
92521578004	**YGWC-26S (021021)**	EPA 7470A	600023	EPA 7470A	600226
92521578005	**YGWC-26I (021021)**	EPA 7470A	600023	EPA 7470A	600226
92521578006	**YGWC-27S (021021)**	EPA 7470A	600023	EPA 7470A	600226
92521578007	**YGWC-27I (021021)**	EPA 7470A	600023	EPA 7470A	600226
92521578008	**DUP-2 (021021)**	EPA 7470A	600023	EPA 7470A	600226
92521578009	**YGWC-28I(021121)**	EPA 7470A	600023	EPA 7470A	600226
92521578012	**YGWC-28S (021221)**	EPA 7470A	601295	EPA 7470A	601814
92521578013	**YGWC-29I (021221)**	EPA 7470A	601295	EPA 7470A	601814
92521578014	**EB-02 (021221)**	EPA 7470A	601295	EPA 7470A	601814
92521578004	**YGWC-26S (021021)**	EPA 300.0 Rev 2.1 1993	599663		
92521578005	**YGWC-26I (021021)**	EPA 300.0 Rev 2.1 1993	599663		
92521578006	**YGWC-27S (021021)**	EPA 300.0 Rev 2.1 1993	599663		
92521578007	**YGWC-27I (021021)**	EPA 300.0 Rev 2.1 1993	599663		
92521578008	**DUP-2 (021021)**	EPA 300.0 Rev 2.1 1993	599663		
92521578009	**YGWC-28I(021121)**	EPA 300.0 Rev 2.1 1993	599664		
92521578012	**YGWC-28S (021221)**	EPA 300.0 Rev 2.1 1993	600235		
92521578013	**YGWC-29I (021221)**	EPA 300.0 Rev 2.1 1993	600235		
92521578014	**EB-02 (021221)**	EPA 300.0 Rev 2.1 1993	600235		

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GAPower

Project #: WO#: 92521578

92521578

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other: ☑ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/10/21

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: 2.1 **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): 2.1

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

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

COC 2

Section A — Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Canton, GA 30114
Email:
Phone: (770)384-6526 Fax
Requested Due Date:

Section B — Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates AP-2
Project #:

Section C — Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	92521578
1	~~YGWA-1I~~	WT																	X	X	X		-
2	~~YGWA-4D~~	WT																	X	X	X		-
3	~~YGWA-2I~~	WT																	X	X	X		-
4	~~YGWA-3I~~	WT																	X	X	X		-
5	~~YGWA-3D~~ EB-02	WT		02/10/21	1130			4											X	X	X		-
6	YGWA-14S	WT		02/10/21	0830			4											X	X	X		pH : 5.35
7	~~YGWA-3S~~ Dup-1	WT		02/10/21	—			4											X	X	X		~~pH : 5.18~~
8	YGWC-26S	WT		02/10/21	1000			4											X	X	X		pH : 5.18
9	YGWC-26I	WT		02/10/21	1100			4											X	X	X		pH = 5.96
10	YGWC-27S	WT		02/10/21	1210			4											X	X	X		pH = 6.21
11	YGWC-27I	WT		02/10/21	1315			4											X	X	X		pH = 6.29
12	~~YGWC-28S~~ Dup-2	WT		02/10/21	—			4											X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
				Charles Hardy	2/10/21	1710	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Peter Argyropoulos
SIGNATURE of SAMPLER:
DATE Signed: 02/10/2021

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

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A
Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Canton, GA 30114
Email:
Phone: (770)384-6526 Fax:
Requested Due Date:

Section B
Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates AP-2
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

COC 2

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

ITEM #	SAMPLE ID	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	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	92521578
13	YGWC-28I (021121)	WT		2/11/21	0940		1224												x	x	x		pH = 6.57
14	~~YGWC-28I~~	WT																	~~x~~	~~x~~	~~x~~		
15		WT																	x	x	x		
16		WT																	x	x	x		
17		WT																	x	x	x		
18		WT																	x	x	x		
19		WT																	x	x	x		
20		WT																	x	x	x		
21																							
22																							
23																							
24																							

MS/MSD

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	PJA			Charles Hink	2/11/21	1303	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Peter Arguelles
SIGNATURE of SAMPLER: [signature]
DATE Signed: 02/11/2021

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

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Company:	Georgia Power
Address:	1070 Bridge Mill Ave
	...on, GA 30114
Email:	
Phone:	(770)384-6526 Fax
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Section B – Required Project Information:

Report To:	Becky Steever
Copy To:	
Purchase Order #:	
Project Name:	~~Yates Rd~~ AP-2
Project #:	

Section C – Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	kevin.herring@pacelabs.com,
Pace Profile #:	10840

Regulatory Agency:

State / Location: GA

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

Requested Analysis Filtered (Y/N)

#	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	92521578
1	~~[illegible]~~ YGWA-1-I	WT		2/12	1320														X	X	X		pH 6.21
2	~~[illegible]~~ YGWA-IT (021221)	WT		2/12	1155				12	X		X							X	X	X		pH 7.14 MS/MSD
3	~~[illegible]~~	WT																	X	X	X		
4	~~[illegible]~~	WT																	X	X	X		
5	~~[illegible]~~	WT																	X	X	X		
6	~~[illegible]~~	WT																	X	X	X		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Becky Steever / Arcadis	2/12/21	1710	K. Wellington / Pace	2/12/21	1710	2.5	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Becky Steever

SIGNATURE of SAMPLER: [signature]

DATE Signed: 2/12/21

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

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Page : 1 Of 1

Section A — Required Client Information:
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Project Name: Yates AP-2
Project #:

Section C — Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

SAMPLE ID
One Character per box. (A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product PD; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID	MATRIX CODE	SAMPLE TYPE	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	
YGWC-28 (02122)	WT		2/1/2	1520				4	X		X							X	X	X		pH 6.60 02
YGWC-29I (02122)	WT		2/1/2	1420				4	X		X							X	X	X		pH 6.24 03
EB-02 (02122)	WT		2/1/2	1530				4	X		X							X	X	X		04
	WT																	X	X	X		
	WT																	X	X	X		
	WT																	X	X	X		
	WT																	X	X	X		
	WT																	X	X	X		

92521578

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)
Becky Steever / AECOM	2/2/2	1705	K. Herring / PACE	2/2/22	1210	2.5	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Becky Steever
SIGNATURE of SAMPLER: DATE Signed: 2/1/22

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

March 11, 2021

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

RE: Project: YATES AMA RADS
Pace Project No.: 92521568

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 10, 2021 and February 12, 2021. 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,

Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: YATES AMA RADS
Pace Project No.: 92521568

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 #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92521568001	**YGWA-5D (020821)**	Water	02/08/21 16:45	02/10/21 17:10
92521568002	**DUP-01(020821)**	Water	02/08/21 00:00	02/10/21 17:10
92521568003	**YGWA-5I (020821)**	Water	02/08/21 16:20	02/10/21 17:10
92521568004	**YGWA-39 (021021)**	Water	02/10/21 09:30	02/10/21 17:10
92521568005	**YGWA-40 (021021)**	Water	02/10/21 10:50	02/10/21 17:10
92521568006	**FB-01(021021)**	Water	02/10/21 11:05	02/10/21 17:10
92521568007	**YGWA-20S (020921)**	Water	02/09/21 16:50	02/10/21 17:10
92521568008	**YGWA-4I(020921)**	Water	02/09/21 09:50	02/10/21 17:10
92521568009	**YGWA-17S(020921)**	Water	02/09/21 11:15	02/10/21 17:10
92521568010	**YGWA-18S(020921)**	Water	02/09/21 13:25	02/10/21 17:10
92521568011	**YGWA-18I(020921)**	Water	02/09/21 14:00	02/10/21 17:10
92521568012	**YGWA-21I(020921)**	Water	02/09/21 16:10	02/10/21 17:10
92521568013	**YGWA-3I(021021)**	Water	02/10/21 16:40	02/11/21 13:03
92521568014	**YGWA-3D(021021)**	Water	02/10/21 17:25	02/11/21 13:03
92521568015	**YGWA-30I(021121)**	Water	02/11/21 09:50	02/11/21 13:03
92521568016	**FB-01(021121)**	Water	02/11/21 10:00	02/11/21 13:03
92521568017	**EB-01(021121)**	Water	02/11/21 12:05	02/11/21 13:03
92521568018	**YGWA-40 (021021) MS**	Water	02/10/21 10:50	02/10/21 17:10
92521568019	**YGWA-40 (021021) MSD**	Water	02/10/21 10:50	02/10/21 17:10
92521567001	**EB-02 (021021)**	Water	02/10/21 11:30	02/10/21 17:10
92521567003	**DUP-1 (021021)**	Water	02/10/21 00:00	02/10/21 17:10
92521567002	**YGWA-14S (021021)**	Water	02/10/21 08:50	02/10/21 17:10
92521567010	**YGWA-1I (021221)**	Water	02/12/21 13:20	02/12/21 17:10
92521567011	**YGWA-1D (021221)**	Water	02/12/21 11:55	02/12/21 17:10
92521567017	**YGWA-1D (021221) MS**	Water	02/12/21 11:55	02/12/21 17:10
92521567018	**YGWA-1D (021221) MSD**	Water	02/12/21 11:55	02/12/21 17:10
92521572002	**YGWA-2I(021021)**	Water	02/10/21 12:40	02/10/21 17:10

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92521568001	**YGWA-5D (020821)**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568002	**DUP-01(020821)**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568003	**YGWA-5I (020821)**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568004	**YGWA-39 (021021)**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568005	**YGWA-40 (021021)**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568006	**FB-01(021021)**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568007	**YGWA-20S (020921)**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568008	**YGWA-4I(020921)**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568009	**YGWA-17S(020921)**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568010	**YGWA-18S(020921)**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568011	**YGWA-18I(020921)**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568012	**YGWA-21I(020921)**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568013	**YGWA-3I(021021)**	EPA 9315	LAL	1	PASI-PA

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568014	**YGWA-3D(021021)**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568015	**YGWA-30I(021121)**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568016	**FB-01(021121)**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568017	**EB-01(021121)**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521568018	**YGWA-40 (021021) MS**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92521568019	**YGWA-40 (021021) MSD**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92521567001	**EB-02 (021021)**	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521567003	**DUP-1 (021021)**	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521567002	**YGWA-14S (021021)**	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521567010	**YGWA-1I (021221)**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92521567011	**YGWA-1D (021221)**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92521567017	**YGWA-1D (021221) MS**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92521567018	**YGWA-1D (021221) MSD**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92521572002	**YGWA-2I(021021)**	EPA 9315	JJY	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521568001	**YGWA-5D (020821)**					
EPA 9315	Radium-226	2.30 ± 0.514 (0.306) C:89% T:NA	pCi/L		03/05/21 07:15	
EPA 9320	Radium-228	0.591 ± 0.501 (1.00) C:79% T:67%	pCi/L		03/01/21 16:19	
Total Radium Calculation	Total Radium	2.89 ± 1.02 (1.31)	pCi/L		03/05/21 14:00	
92521568002	**DUP-01(020821)**					
EPA 9315	Radium-226	0.171 ± 0.133 (0.235) C:92% T:NA	pCi/L		03/05/21 07:15	
EPA 9320	Radium-228	0.0142 ± 0.351 (0.815) C:80% T:79%	pCi/L		03/01/21 16:19	
Total Radium Calculation	Total Radium	0.185 ± 0.484 (1.05)	pCi/L		03/05/21 14:00	
92521568003	**YGWA-5I (020821)**					
EPA 9315	Radium-226	0.476 ± 0.249 (0.427) C:90% T:NA	pCi/L		03/05/21 07:15	
EPA 9320	Radium-228	0.137 ± 0.351 (0.783) C:82% T:79%	pCi/L		03/01/21 16:19	
Total Radium Calculation	Total Radium	0.613 ± 0.600 (1.21)	pCi/L		03/05/21 14:00	
92521568004	**YGWA-39 (021021)**					
EPA 9315	Radium-226	0.363 ± 0.187 (0.306) C:96% T:NA	pCi/L		03/05/21 07:15	
EPA 9320	Radium-228	0.155 ± 0.298 (0.655) C:87% T:90%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.518 ± 0.485 (0.961)	pCi/L		03/05/21 14:00	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521568005	**YGWA-40 (021021)**					
EPA 9315	Radium-226	0.346 ± 0.178 (0.255) C:93% T:NA	pCi/L		03/05/21 07:15	
EPA 9320	Radium-228	0.437 ± 0.487 (1.02) C:90% T:61%	pCi/L		03/01/21 16:19	
Total Radium Calculation	Total Radium	0.783 ± 0.665 (1.28)	pCi/L		03/05/21 14:00	
92521568006	**FB-01(021021)**					
EPA 9315	Radium-226	0.0756 ± 0.104 (0.217) C:87% T:NA	pCi/L		03/05/21 07:15	
EPA 9320	Radium-228	0.0378 ± 0.302 (0.696) C:86% T:83%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.113 ± 0.406 (0.913)	pCi/L		03/05/21 14:00	
92521568007	**YGWA-20S (020921)**					
EPA 9315	Radium-226	0.0222 ± 0.0899 (0.230) C:94% T:NA	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	0.262 ± 0.354 (0.756) C:84% T:79%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.284 ± 0.444 (0.986)	pCi/L		03/05/21 14:00	
92521568008	**YGWA-4I(020921)**					
EPA 9315	Radium-226	0.492 ± 0.201 (0.224) C:89% T:NA	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	0.134 ± 0.379 (0.848) C:84% T:78%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.626 ± 0.580 (1.07)	pCi/L		03/05/21 14:00	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521568009	**YGWA-17S(020921)**					
EPA 9315	Radium-226	0.0845 ± 0.101 (0.203) C:86% T:NA	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	0.444 ± 0.512 (1.08) C:89% T:63%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.529 ± 0.613 (1.28)	pCi/L		03/05/21 14:00	
92521568010	**YGWA-18S(020921)**					
EPA 9315	Radium-226	0.0536 ± 0.0925 (0.208) C:92% T:NA	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	0.205 ± 0.313 (0.676) C:82% T:78%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.259 ± 0.406 (0.884)	pCi/L		03/05/21 14:00	
92521568011	**YGWA-18I(020921)**					
EPA 9315	Radium-226	0.147 ± 0.123 (0.217) C:89% T:NA	pCi/L		03/05/21 07:48	
EPA 9320	Radium-228	0.167 ± 0.338 (0.745) C:86% T:79%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.314 ± 0.461 (0.962)	pCi/L		03/05/21 14:00	
92521568012	**YGWA-21I(020921)**					
EPA 9315	Radium-226	0.925 ± 0.287 (0.231) C:91% T:NA	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	0.315 ± 0.363 (0.763) C:88% T:79%	pCi/L		03/01/21 16:21	
Total Radium Calculation	Total Radium	1.24 ± 0.650 (0.994)	pCi/L		03/05/21 14:00	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521568013	**YGWA-3I(021021)**					
EPA 9315	Radium-226	1.10 ± 0.317 (0.250) C:91% T:NA	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	1.36 ± 0.549 (0.874) C:90% T:68%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	2.46 ± 0.866 (1.12)	pCi/L		03/05/21 14:00	
92521568014	**YGWA-3D(021021)**					
EPA 9315	Radium-226	1.59 ± 0.397 (0.248) C:91% T:NA	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	2.06 ± 0.635 (0.822) C:84% T:79%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	3.65 ± 1.03 (1.07)	pCi/L		03/05/21 14:00	
92521568015	**YGWA-30I(021121)**					
EPA 9315	Radium-226	0.0594 ± 0.0766 (0.153) C:94% T:NA	pCi/L		03/05/21 07:27	
EPA 9320	Radium-228	0.619 ± 0.427 (0.833) C:86% T:79%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.678 ± 0.504 (0.986)	pCi/L		03/05/21 14:00	
92521568016	**FB-01(021121)**					
EPA 9315	Radium-226	0.0929 ± 0.0996 (0.196) C:96% T:NA	pCi/L		03/05/21 07:28	
EPA 9320	Radium-228	0.419 ± 0.398 (0.821) C:88% T:80%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.512 ± 0.498 (1.02)	pCi/L		03/05/21 14:00	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521568017	**EB-01(021121)**					
EPA 9315	Radium-226	0.0319 ± 0.0775 (0.187) C:87% T:NA	pCi/L		03/05/21 07:28	
EPA 9320	Radium-228	0.648 ± 0.478 (0.941) C:86% T:67%	pCi/L		03/01/21 16:20	
Total Radium Calculation	Total Radium	0.680 ± 0.556 (1.13)	pCi/L		03/05/21 14:00	
92521568018	**YGWA-40 (021021) MS**					
EPA 9315	Radium-226	102.72 %REC ± NA (NA) C:NA T:NA	pCi/L		03/05/21 07:28	
EPA 9320	Radium-228	82.38 %REC ± NA (NA) C:NA T:NA	pCi/L		03/01/21 16:20	
92521568019	**YGWA-40 (021021) MSD**					
EPA 9315	Radium-226	93.67%REC 9.21RPD ± NA (NA) C:NA T:NA	pCi/L		03/05/21 07:28	
EPA 9320	Radium-228	62.49 %REC 27.45 RPD ± NA (NA) C:NA T:NA	pCi/L		03/01/21 16:20	
92521567001	**EB-02 (021021)**					
EPA 9315	Radium-226	0.0550 ± 0.0861 (0.188) C:84% T:NA	pCi/L		03/05/21 07:30	
EPA 9320	Radium-228	-0.0344 ± 0.302 (0.716) C:69% T:90%	pCi/L		02/26/21 11:30	
Total Radium Calculation	Total Radium	0.0550 ± 0.388 (0.904)	pCi/L		03/05/21 14:01	
92521567003	**DUP-1 (021021)**					
EPA 9315	Radium-226	0.0865 ± 0.0955 (0.184) C:82% T:NA	pCi/L		03/05/21 07:30	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521567003	**DUP-1 (021021)**					
EPA 9320	Radium-228	0.528 ± 0.390 (0.755) C:71% T:78%	pCi/L		02/26/21 11:30	
Total Radium Calculation	Total Radium	0.615 ± 0.486 (0.939)	pCi/L		03/05/21 14:01	
92521567002	**YGWA-14S (021021)**					
EPA 9315	Radium-226	0.173 ± 0.123 (0.203) C:90% T:NA	pCi/L		03/05/21 07:30	
EPA 9320	Radium-228	0.180 ± 0.339 (0.746) C:73% T:75%	pCi/L		02/26/21 11:30	
Total Radium Calculation	Total Radium	0.353 ± 0.462 (0.949)	pCi/L		03/05/21 14:01	
92521567010	**YGWA-1I (021221)**					
EPA 9315	Radium-226	0.136 ± 0.0809 (0.131) C:94% T:NA	pCi/L		03/09/21 19:03	
EPA 9320	Radium-228	0.322 ± 0.541 (1.18) C:72% T:83%	pCi/L		03/09/21 17:17	
Total Radium Calculation	Total Radium	0.458 ± 0.622 (1.31)	pCi/L		03/10/21 15:19	
92521567011	**YGWA-1D (021221)**					
EPA 9315	Radium-226	0.275 ± 0.0990 (0.123) C:95% T:NA	pCi/L		03/09/21 19:03	
EPA 9320	Radium-228	0.0910 ± 0.322 (0.726) C:81% T:87%	pCi/L		03/09/21 15:27	
Total Radium Calculation	Total Radium	0.366 ± 0.421 (0.849)	pCi/L		03/10/21 14:15	
92521567017	**YGWA-1D (021221) MS**					
EPA 9315	Radium-226	98.68 %REC ± NA (NA) C:NA T:NA	pCi/L		03/09/21 19:03	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521567017	**YGWA-1D (021221) MS**					
EPA 9320	Radium-228	106.48 %REC ± NA (NA) C:NA T:NA	pCi/L		03/09/21 15:27	
92521567018	**YGWA-1D (021221) MSD**					
EPA 9315	Radium-226	91.79 %REC 7.24 RPD ± NA (NA) C:NA T:NA	pCi/L		03/09/21 19:03	
EPA 9320	Radium-228	91.25 %REC 15.40 RPD ± NA (NA) C:NA T:NA	pCi/L		03/09/21 15:28	
92521572002	**YGWA-2I(021021)**					
EPA 9315	Radium-226	0.209 ± 0.130 (0.198) C:83% T:NA	pCi/L		03/02/21 11:26	
EPA 9320	Radium-228	0.831 ± 0.551 (1.06) C:70% T:78%	pCi/L		02/24/21 15:31	
Total Radium Calculation	Total Radium	1.04 ± 0.681 (1.26)	pCi/L		03/02/21 16:35	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

Sample: YGWA-5D (020821) **Lab ID: 92521568001** Collected: 02/08/21 16:45 Received: 02/10/21 17:10 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	**2.30 ± 0.514 (0.306) C:89% T:NA**	pCi/L	03/05/21 07:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.591 ± 0.501 (1.00) C:79% T:67%**	pCi/L	03/01/21 16:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.89 ± 1.02 (1.31)**	pCi/L	03/05/21 14:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

Sample: DUP-01(020821) **Lab ID: 92521568002** Collected: 02/08/21 00:00 Received: 02/10/21 17:10 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	**0.171 ± 0.133 (0.235) C:92% T:NA**	pCi/L	03/05/21 07:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0142 ± 0.351 (0.815) C:80% T:79%**	pCi/L	03/01/21 16:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.185 ± 0.484 (1.05)**	pCi/L	03/05/21 14:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

Sample: YGWA-5I (020821) **Lab ID: 92521568003** Collected: 02/08/21 16:20 Received: 02/10/21 17:10 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	**0.476 ± 0.249 (0.427) C:90% T:NA**	pCi/L	03/05/21 07:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.137 ± 0.351 (0.783) C:82% T:79%**	pCi/L	03/01/21 16:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.613 ± 0.600 (1.21)**	pCi/L	03/05/21 14:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

Sample: YGWA-39 (021021) **Lab ID: 92521568004** Collected: 02/10/21 09:30 Received: 02/10/21 17:10 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	**0.363 ± 0.187 (0.306) C:96% T:NA**	pCi/L	03/05/21 07:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.155 ± 0.298 (0.655) C:87% T:90%**	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.518 ± 0.485 (0.961)**	pCi/L	03/05/21 14:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

Sample: YGWA-40 (021021) **Lab ID: 92521568005** Collected: 02/10/21 10:50 Received: 02/10/21 17:10 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	**0.346 ± 0.178 (0.255) C:93% T:NA**	pCi/L	03/05/21 07:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.437 ± 0.487 (1.02) C:90% T:61%**	pCi/L	03/01/21 16:19	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.783 ± 0.665 (1.28)**	pCi/L	03/05/21 14:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

Sample: FB-01(021021) **Lab ID: 92521568006** Collected: 02/10/21 11:05 Received: 02/10/21 17:10 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	**0.0756 ± 0.104 (0.217) C:87% T:NA**	pCi/L	03/05/21 07:15	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0378 ± 0.302 (0.696) C:86% T:83%**	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.113 ± 0.406 (0.913)**	pCi/L	03/05/21 14:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

Sample: YGWA-20S (020921) **Lab ID: 92521568007** Collected: 02/09/21 16:50 Received: 02/10/21 17:10 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	**0.0222 ± 0.0899 (0.230) C:94% T:NA**	pCi/L	03/05/21 07:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.262 ± 0.354 (0.756) C:84% T:79%**	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.284 ± 0.444 (0.986)**	pCi/L	03/05/21 14:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

Sample: YGWA-4I(020921) **Lab ID: 92521568008** Collected: 02/09/21 09:50 Received: 02/10/21 17:10 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	**0.492 ± 0.201 (0.224) C:89% T:NA**	pCi/L	03/05/21 07:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.134 ± 0.379 (0.848) C:84% T:78%**	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.626 ± 0.580 (1.07)**	pCi/L	03/05/21 14:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

Sample: YGWA-17S(020921) **Lab ID: 92521568009** Collected: 02/09/21 11:15 Received: 02/10/21 17:10 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	**0.0845 ± 0.101 (0.203) C:86% T:NA**	pCi/L	03/05/21 07:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.444 ± 0.512 (1.08) C:89% T:63%**	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.529 ± 0.613 (1.28)**	pCi/L	03/05/21 14:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

Sample: YGWA-18S(020921) **Lab ID: 92521568010** Collected: 02/09/21 13:25 Received: 02/10/21 17:10 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	**0.0536 ± 0.0925 (0.208) C:92% T:NA**	pCi/L	03/05/21 07:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.205 ± 0.313 (0.676) C:82% T:78%**	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.259 ± 0.406 (0.884)**	pCi/L	03/05/21 14:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

Sample: YGWA-18I(020921) **Lab ID: 92521568011** Collected: 02/09/21 14:00 Received: 02/10/21 17:10 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 ± 0.123 (0.217) C:89% T:NA**	pCi/L	03/05/21 07:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.167 ± 0.338 (0.745) C:86% T:79%**	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.314 ± 0.461 (0.962)**	pCi/L	03/05/21 14:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

Sample: YGWA-21I(020921) **Lab ID: 92521568012** Collected: 02/09/21 16:10 Received: 02/10/21 17:10 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	**0.925 ± 0.287 (0.231) C:91% T:NA**	pCi/L	03/05/21 07:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.315 ± 0.363 (0.763) C:88% T:79%**	pCi/L	03/01/21 16:21	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.24 ± 0.650 (0.994)**	pCi/L	03/05/21 14:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

Sample: YGWA-3I(021021) **Lab ID: 92521568013** Collected: 02/10/21 16:40 Received: 02/11/21 13:03 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	**1.10 ± 0.317 (0.250) C:91% T:NA**	pCi/L	03/05/21 07:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.36 ± 0.549 (0.874) C:90% T:68%**	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.46 ± 0.866 (1.12)**	pCi/L	03/05/21 14:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

Sample: YGWA-3D(021021) **Lab ID: 92521568014** Collected: 02/10/21 17:25 Received: 02/11/21 13:03 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	**1.59 ± 0.397 (0.248) C:91% T:NA**	pCi/L	03/05/21 07:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**2.06 ± 0.635 (0.822) C:84% T:79%**	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.65 ± 1.03 (1.07)**	pCi/L	03/05/21 14:00	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

Sample: YGWA-30I(021121) **Lab ID: 92521568015** Collected: 02/11/21 09:50 Received: 02/11/21 13:03 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	**0.0594 ± 0.0766 (0.153) C:94% T:NA**	pCi/L	03/05/21 07:27	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.619 ± 0.427 (0.833) C:86% T:79%**	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.678 ± 0.504 (0.986)**	pCi/L	03/05/21 14:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

Sample: FB-01(021121) **Lab ID: 92521568016** Collected: 02/11/21 10:00 Received: 02/11/21 13:03 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	**0.0929 ± 0.0996 (0.196) C:96% T:NA**	pCi/L	03/05/21 07:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.419 ± 0.398 (0.821) C:88% T:80%**	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.512 ± 0.498 (1.02)**	pCi/L	03/05/21 14:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

Sample: EB-01(021121) **Lab ID: 92521568017** Collected: 02/11/21 12:05 Received: 02/11/21 13:03 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	**0.0319 ± 0.0775 (0.187) C:87% T:NA**	pCi/L	03/05/21 07:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.648 ± 0.478 (0.941) C:86% T:67%**	pCi/L	03/01/21 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.680 ± 0.556 (1.13)**	pCi/L	03/05/21 14:00	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

Sample: YGWA-40 (021021) MS **Lab ID: 92521568018** Collected: 02/10/21 10:50 Received: 02/10/21 17:10 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	**102.72 %REC ± NA (NA) C:NA T:NA**	pCi/L	03/05/21 07:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**82.38 %REC ± NA (NA) C:NA T:NA**	pCi/L	03/01/21 16:20	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

Sample: YGWA-40 (021021) MSD **Lab ID: 92521568019** Collected: 02/10/21 10:50 Received: 02/10/21 17:10 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	**93.67%REC 9.21RPD ± NA (NA) C:NA T:NA**	pCi/L	03/05/21 07:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**62.49 %REC 27.45 RPD ± NA (NA) C:NA T:NA**	pCi/L	03/01/21 16:20	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

Sample: EB-02 (021021) **Lab ID: 92521567001** Collected: 02/10/21 11:30 Received: 02/10/21 17:10 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	**0.0550 ± 0.0861 (0.188) C:84% T:NA**	pCi/L	03/05/21 07:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0344 ± 0.302 (0.716) C:69% T:90%**	pCi/L	02/26/21 11:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0550 ± 0.388 (0.904)**	pCi/L	03/05/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

Sample: DUP-1 (021021) **Lab ID: 92521567003** Collected: 02/10/21 00:00 Received: 02/10/21 17:10 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	**0.0865 ± 0.0955 (0.184) C:82% T:NA**	pCi/L	03/05/21 07:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.528 ± 0.390 (0.755) C:71% T:78%**	pCi/L	02/26/21 11:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.615 ± 0.486 (0.939)**	pCi/L	03/05/21 14:01	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

Sample: YGWA-14S (021021) **Lab ID: 92521567002** Collected: 02/10/21 08:50 Received: 02/10/21 17:10 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	**0.173 ± 0.123 (0.203) C:90% T:NA**	pCi/L	03/05/21 07:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.180 ± 0.339 (0.746) C:73% T:75%**	pCi/L	02/26/21 11:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.353 ± 0.462 (0.949)**	pCi/L	03/05/21 14:01	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

Sample: YGWA-1I (021221) **Lab ID: 92521567010** Collected: 02/12/21 13:20 Received: 02/12/21 17:10 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	**0.136 ± 0.0809 (0.131) C:94% T:NA**	pCi/L	03/09/21 19:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.322 ± 0.541 (1.18) C:72% T:83%**	pCi/L	03/09/21 17:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.458 ± 0.622 (1.31)**	pCi/L	03/10/21 15:19	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

Sample: YGWA-1D (021221) **Lab ID: 92521567011** Collected: 02/12/21 11:55 Received: 02/12/21 17:10 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	**0.275 ± 0.0990 (0.123) C:95% T:NA**	pCi/L	03/09/21 19:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0910 ± 0.322 (0.726) C:81% T:87%**	pCi/L	03/09/21 15:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.366 ± 0.421 (0.849)**	pCi/L	03/10/21 14:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

Sample: YGWA-1D (021221) MS **Lab ID: 92521567017** Collected: 02/12/21 11:55 Received: 02/12/21 17:10 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	**98.68 %REC ± NA (NA) C:NA T:NA**	pCi/L	03/09/21 19:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**106.48 %REC ± NA (NA) C:NA T:NA**	pCi/L	03/09/21 15:27	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

Sample: YGWA-1D (021221) MSD **Lab ID: 92521567018** Collected: 02/12/21 11:55 Received: 02/12/21 17:10 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	**91.79 %REC 7.24 RPD ± NA (NA) C:NA T:NA**	pCi/L	03/09/21 19:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**91.25 %REC 15.40 RPD ± NA (NA) C:NA T:NA**	pCi/L	03/09/21 15:28	15262-20-1	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

Sample: YGWA-2I(021021) **Lab ID: 92521572002** Collected: 02/10/21 12:40 Received: 02/10/21 17:10 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	**0.209 ± 0.130 (0.198) C:83% T:NA**	pCi/L	03/02/21 11:26	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.831 ± 0.551 (1.06) C:70% T:78%**	pCi/L	02/24/21 15:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.04 ± 0.681 (1.26)**	pCi/L	03/02/21 16:35	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

QC Batch: 436983
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92521567010, 92521567011, 92521567017, 92521567018

METHOD BLANK: 2109306 Matrix: Water
Associated Lab Samples: 92521567010, 92521567011, 92521567017, 92521567018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0161 ± 0.0615 (0.127) C:96% T:NA	pCi/L	03/09/21 19:03	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

QC Batch: 435783
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92521567001, 92521567002, 92521567003

METHOD BLANK: 2103740 Matrix: Water
Associated Lab Samples: 92521567001, 92521567002, 92521567003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.267 ± 0.143 (0.193) C:92% T:NA	pCi/L	03/05/21 07:29	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

QC Batch: 435459
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92521572002

METHOD BLANK: 2102227
Matrix: Water
Associated Lab Samples: 92521572002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.276 ± 0.140 (0.180) C:89% T:NA	pCi/L	03/02/21 07:53	

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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

QC Batch: 435781
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92521568001, 92521568002, 92521568003, 92521568004, 92521568005, 92521568006, 92521568007, 92521568008, 92521568009, 92521568010, 92521568011, 92521568012, 92521568013, 92521568014, 92521568015, 92521568016, 92521568017, 92521568018, 92521568019

METHOD BLANK: 2103737
Matrix: Water
Associated Lab Samples: 92521568001, 92521568002, 92521568003, 92521568004, 92521568005, 92521568006, 92521568007, 92521568008, 92521568009, 92521568010, 92521568011, 92521568012, 92521568013, 92521568014, 92521568015, 92521568016, 92521568017, 92521568018, 92521568019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0349 ± 0.0874 (0.210) C:95% T:NA	pCi/L	03/05/21 07:14	

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

QC Batch: 435116
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92521572002

METHOD BLANK: 2100680
Matrix: Water
Associated Lab Samples: 92521572002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.356 ± 0.369 (0.763) C:72% T:87%	pCi/L	02/24/21 15:29	

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

QC Batch: 435780
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92521568001, 92521568002, 92521568003, 92521568004, 92521568005, 92521568006, 92521568007, 92521568008, 92521568009, 92521568010, 92521568011, 92521568012, 92521568013, 92521568014, 92521568015, 92521568016, 92521568017, 92521568018, 92521568019

METHOD BLANK: 2103736
Matrix: Water
Associated Lab Samples: 92521568001, 92521568002, 92521568003, 92521568004, 92521568005, 92521568006, 92521568007, 92521568008, 92521568009, 92521568010, 92521568011, 92521568012, 92521568013, 92521568014, 92521568015, 92521568016, 92521568017, 92521568018, 92521568019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.175 ± 0.283 (0.615) C:84% T:89%	pCi/L	03/01/21 16:20	

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

QC Batch: 436984
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92521567010, 92521567011, 92521567017, 92521567018

METHOD BLANK: 2109307 Matrix: Water
Associated Lab Samples: 92521567010, 92521567011, 92521567017, 92521567018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0130 ± 0.299 (0.696) C:76% T:89%	pCi/L	03/09/21 15:28	

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AMA RADS
Pace Project No.: 92521568

QC Batch: 435784
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92521567001, 92521567002, 92521567003

METHOD BLANK: 2103741 Matrix: Water
Associated Lab Samples: 92521567001, 92521567002, 92521567003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.191 ± 0.338 (0.740) C:71% T:85%	pCi/L	02/26/21 11:33	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: YATES AMA RADS
Pace Project No.: 92521568

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.

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.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92521567001	**EB-02 (021021)**	EPA 9315	435783		
92521567002	**YGWA-14S (021021)**	EPA 9315	435783		
92521567003	**DUP-1 (021021)**	EPA 9315	435783		
92521568001	**YGWA-5D (020821)**	EPA 9315	435781		
92521568002	**DUP-01(020821)**	EPA 9315	435781		
92521568003	**YGWA-5I (020821)**	EPA 9315	435781		
92521568004	**YGWA-39 (021021)**	EPA 9315	435781		
92521568005	**YGWA-40 (021021)**	EPA 9315	435781		
92521568006	**FB-01(021021)**	EPA 9315	435781		
92521568007	**YGWA-20S (020921)**	EPA 9315	435781		
92521568008	**YGWA-4I(020921)**	EPA 9315	435781		
92521568009	**YGWA-17S(020921)**	EPA 9315	435781		
92521568010	**YGWA-18S(020921)**	EPA 9315	435781		
92521568011	**YGWA-18I(020921)**	EPA 9315	435781		
92521568012	**YGWA-21I(020921)**	EPA 9315	435781		
92521572002	**YGWA-2I(021021)**	EPA 9315	435459		
92521568013	**YGWA-3I(021021)**	EPA 9315	435781		
92521568014	**YGWA-3D(021021)**	EPA 9315	435781		
92521568015	**YGWA-30I(021121)**	EPA 9315	435781		
92521568016	**FB-01(021121)**	EPA 9315	435781		
92521568017	**EB-01(021121)**	EPA 9315	435781		
92521567010	**YGWA-1I (021221)**	EPA 9315	436983		
92521567011	**YGWA-1D (021221)**	EPA 9315	436983		
92521567017	**YGWA-1D (021221) MS**	EPA 9315	436983		
92521567018	**YGWA-1D (021221) MSD**	EPA 9315	436983		
92521568018	**YGWA-40 (021021) MS**	EPA 9315	435781		
92521568019	**YGWA-40 (021021) MSD**	EPA 9315	435781		
92521567001	**EB-02 (021021)**	EPA 9320	435784		
92521567002	**YGWA-14S (021021)**	EPA 9320	435784		
92521567003	**DUP-1 (021021)**	EPA 9320	435784		
92521568001	**YGWA-5D (020821)**	EPA 9320	435780		
92521568002	**DUP-01(020821)**	EPA 9320	435780		
92521568003	**YGWA-5I (020821)**	EPA 9320	435780		
92521568004	**YGWA-39 (021021)**	EPA 9320	435780		
92521568005	**YGWA-40 (021021)**	EPA 9320	435780		
92521568006	**FB-01(021021)**	EPA 9320	435780		
92521568007	**YGWA-20S (020921)**	EPA 9320	435780		
92521568008	**YGWA-4I(020921)**	EPA 9320	435780		
92521568009	**YGWA-17S(020921)**	EPA 9320	435780		
92521568010	**YGWA-18S(020921)**	EPA 9320	435780		
92521568011	**YGWA-18I(020921)**	EPA 9320	435780		
92521568012	**YGWA-21I(020921)**	EPA 9320	435780		
92521572002	**YGWA-2I(021021)**	EPA 9320	435116		
92521568013	**YGWA-3I(021021)**	EPA 9320	435780		

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AMA RADS
Pace Project No.: 92521568

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92521568014	**YGWA-3D(021021)**	EPA 9320	435780		
92521568015	**YGWA-30I(021121)**	EPA 9320	435780		
92521568016	**FB-01(021121)**	EPA 9320	435780		
92521568017	**EB-01(021121)**	EPA 9320	435780		
92521567010	**YGWA-1I (021221)**	EPA 9320	436984		
92521567011	**YGWA-1D (021221)**	EPA 9320	436984		
92521567017	**YGWA-1D (021221) MS**	EPA 9320	436984		
92521567018	**YGWA-1D (021221) MSD**	EPA 9320	436984		
92521568018	**YGWA-40 (021021) MS**	EPA 9320	435780		
92521568019	**YGWA-40 (021021) MSD**	EPA 9320	435780		
92521567001	**EB-02 (021021)**	Total Radium Calculation	437456		
92521567002	**YGWA-14S (021021)**	Total Radium Calculation	437456		
92521567003	**DUP-1 (021021)**	Total Radium Calculation	437456		
92521568001	**YGWA-5D (020821)**	Total Radium Calculation	437454		
92521568002	**DUP-01(020821)**	Total Radium Calculation	437454		
92521568003	**YGWA-5I (020821)**	Total Radium Calculation	437454		
92521568004	**YGWA-39 (021021)**	Total Radium Calculation	437454		
92521568005	**YGWA-40 (021021)**	Total Radium Calculation	437454		
92521568006	**FB-01(021021)**	Total Radium Calculation	437454		
92521568007	**YGWA-20S (020921)**	Total Radium Calculation	437454		
92521568008	**YGWA-4I(020921)**	Total Radium Calculation	437454		
92521568009	**YGWA-17S(020921)**	Total Radium Calculation	437454		
92521568010	**YGWA-18S(020921)**	Total Radium Calculation	437454		
92521568011	**YGWA-18I(020921)**	Total Radium Calculation	437454		
92521568012	**YGWA-21I(020921)**	Total Radium Calculation	437454		
92521572002	**YGWA-2I(021021)**	Total Radium Calculation	436928		
92521568013	**YGWA-3I(021021)**	Total Radium Calculation	437454		
92521568014	**YGWA-3D(021021)**	Total Radium Calculation	437454		
92521568015	**YGWA-30I(021121)**	Total Radium Calculation	437454		
92521568016	**FB-01(021121)**	Total Radium Calculation	437454		
92521568017	**EB-01(021121)**	Total Radium Calculation	437454		
92521567010	**YGWA-1I (021221)**	Total Radium Calculation	438070		
92521567011	**YGWA-1D (021221)**	Total Radium Calculation	438070		

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	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# : 92521568

92521568

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☑ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/10/21

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

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

Cooler Temp: 2.1 **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): 2.1

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

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www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 3 Of 3

COC 3

Section A Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Canton, GA 30114
Email:
Phone: (770)384-6526 Fax:
Requested Due Date:

Section B Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates AMA
Project #:

Section C Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

Valid matrix codes: MATRIX / CODE — Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	Start DATE	Start TIME	End DATE	End TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)
13	YGWA-5D	WT		02/05/21	1645			4											x	x	x	
14		WT																	x	x	x	
15		WT																	x	x	x	
16		WT																	x	x	x	
17		WT																	x	x	x	
18		WT																	x	x	x	
19		WT																	x	x	x	
20		WT																	x	x	x	
21																						
22																						
23																						
24																						

Pace Project No./Lab I.D.: 92521568

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
				Charles Henley	2/10/21	1710	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Peter Argyrakis
SIGNATURE of SAMPLER: [signature]
DATE Signed: 02/10/2021

TEMP in C	Received on Ice (Y/N)	Custody 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.

Page: 2 Of 3

[illegible] 3 COC 3

Section A — Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
[illegible]ton, GA 30114
Email:
Phone: (770)384-6526 Fax:
Requested Due Date:

Section B — Required Project Information:
Report To: Becky Sleever
Copy To:
Purchase Order #:
Project Name: Yates AMA
Project #:

Section C — Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

Requested Analysis Filtered (Y/N)

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	92521568
1	~~YGWA-[illegible]~~ DUP-01(020821)	WT		2-8-21	—				4	/		/							x	x	x		—
2	YGWA-5I	WT		2-8-21	1620				4	/	[illegible]	/							x	x	x		pH:5.67
3	~~[illegible]~~ YGWA-39	WT		2-10-21	0936				4	/		/							x	x	x		— pH:5.80
4	~~[illegible]~~ YGWA-40	WT		2-10-21	1050				12	/		/							x	x	x		— pH:5.19 MS/MSD
5	~~YGWA-[illegible]~~ FB-01(021021)	WT		2-10-21	1105				4	/		/							x	x	x		—
6	~~[illegible]~~	WT																	~~x~~	~~x~~	~~x~~		—
7	YGWA-20S	WT		2-7-21	1650				4	/		/							x	x	x		pH:5.80
8	~~YGWA-[illegible]~~	WT																	~~x~~	~~x~~	~~x~~		—
9	~~[illegible]~~	~~WT~~		~~[illegible]~~	~~[illegible]~~				~~4~~	~~/~~		~~/~~							~~x~~	~~x~~	~~x~~		~~[illegible]~~
10	~~[illegible]~~	WT																	~~x~~	~~x~~	~~x~~		—
11	~~[illegible]~~	WT																	~~x~~	~~x~~	~~x~~		—
12	~~[illegible]~~	WT																	~~x~~	~~x~~	~~x~~		—

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Katie Pypkiewicz/Arcadis	2/10/21	1512	Charles [illegible]	2/10/21	1710	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Katie Pypkiewicz
SIGNATURE of SAMPLER: [signature]
DATE Signed: 2-9-2021

TEMP in C | Received on Ice (Y/N) | Custody 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.

Page : 3 Of 3

Section A	Section B	Section C
Required Client Information:	Required Project Information:	Invoice Information:
Company: Georgia Power	Report To: Becky Steever	Attention:
Address: 1070 Bridge Mill Ave	Copy To:	Company Name:
Hinton, GA 30114		Address:
Email:	Purchase Order #:	Pace Quote:
Phone: (770)384-6526 Fax	Project Name: Yates AMA	Pace Project Manager: kevin.herring@pacelabs.com,
Requested Due Date:	Project #:	Pace Profile #: 10640

Regulatory Agency: GA

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: Y/N	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	
1	YGWA-4I (020921)	WT		2/9	0950				4	N		X							X	X	X		G2521568
2	~~MGWA-6S~~	WT																	X	X	X		pH 6.06
3	~~YGWA-9D~~	WT																	X	X	X		
4	YGWA-17S (020921)	WT		2/9	1115				4	N		X							X	X	X		pH 5.62
5	YGWA-18S (020921)	WT		2/9	1325				4	X		X							X	X	X		pH ~~6.12~~ 5.43
6	YGWA-18I (020921)	WT		2/9	1400				4	X		X							X	X	X		pH 6.12
7	~~YGWA-20S~~	WT																	X	X	X		
8	YGWA-21I (020921)	WT		2/9	1610				4	X		X							X	X	X		pH 6.95
9	~~YGWC-23S~~	WT																	X	X	X		
10	~~YGWC-24BA~~	WT																	X	X	X		
11	~~YGWC-38A~~	WT																	X	X	X		
12	~~YGWC-40~~ (020921)	WT		2/9	1586				4	X		X	X						X	X	X		pH

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	B Steever / Arcadis	2/10/21	1500	Peter Angradis	2/10/21	1500	
				Chase Kenley	2/10/21	1710	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Becky Steever

SIGNATURE of SAMPLER: DATE Signed: 2/10/21

TEMP in C	Received on Ice (Y/N)	Custody 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.

Page : 1 Of 2

CoCB

Section A
Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Marietta, GA 30114
Email:
Phone: (770)384-6525 Fax:
Requested Due Date:

Section B
Required Project Information:
Report To: Becky Sleever
Copy To:
Purchase Order #:
Project Name: ~~Yates/McDonough~~ AP-2
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com
Pace Profile #: 10640

Regulatory Agency: GA
State / Location:

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~YAMW-01~~ YGWA-3I (021021)	WT		2/10	1640				4	X		X							X	X	X		G2521564
2	~~YAMW-02~~ YGWA-3D (021021)	WT		2/10	1725				4	X		X							X	X	X		pH 7.53 013
3	~~YAMW-03~~	WT																	X	X	X		pH 7.81 014
4	~~YAMW-04~~	WT																	X	X	X		
5	~~YAMW-05~~	WT																	X	X	X		
6	~~YAMW-06~~	WT																	X	X	X		
7																							
8																							
9																							
10																							
11																							
12																							

MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
				Charles Hale	2/11/21	1307	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Becky Sleever
SIGNATURE of SAMPLER:
DATE Signed: 2/11/21

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.

Page: 2 Of 2

COC 3

Section A
Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Canton, GA 30114
Email:
Phone: (770)384-6526 Fax:
Requested Due Date:

Section B
Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates AP-2
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10640

Regulatory Agency:
State / Location: GA

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test (Y/N)	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~YGWA-29~~	WT																	X	X	X		
2	~~YGWA-30~~	WT																	X	X	X		
3	~~YGWA-31~~	WT																	X	X	X		
4	~~YGWA-32~~	WT																	X	X	X		
5	~~YGWA-33~~	WT																	X	X	X		
6	~~YGWA-34~~	WT																	X	X	X		
7	YGWA-301 (021121)	WT		2-11-21	0950				4	/		/							X	X	X		pH: 5.73 015
8	~~YGWC-302~~ FB-01 (021121)	WT		2-11-21	1000				4	/		/							X	X	X		016
9	~~YGWA-303~~ EB-01 (021121)	WT		2-11-21	1305				4	/		/							X	X	X		017
10	~~YGWC-304~~	WT																	X	X	X		
11	~~YGWC-305~~	WT																	X	X	X		
12	~~YGWC-306~~	WT																	X	X	X		

Matrix Codes: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
				Charles Hook	2/11/21	1303	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Katie Pyrkiewicz

SIGNATURE of SAMPLER: [signature]

DATE Signed: 2-11-21

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

42521568

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-226
Analyst:	LAL
Date:	2/26/2021
Worklist:	58911
Matrix:	DW

Method Blank Assessment	
MB Sample ID	2103737
MB concentration:	0.035
M/B Counting Uncertainty:	0.087
MB MDC:	0.210
MB Numerical Performance Indicator:	0.78
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS58911	**LCSD58911**
Count Date:	3/5/2021	3/5/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.040	24.040
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.508	0.501
Target Conc. (pCi/L, g, F):	4.737	4.795
Uncertainty (Calculated):	0.057	0.058
Result (pCi/L, g, F):	4.762	4.738
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.526	0.516
Numerical Performance Indicator:	0.09	-0.21
Percent Recovery:	100.53%	98.83%
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:	2/10/2021	
Sample I.D.	92521568005	
Sample MS I.D.	92521568018	
Sample MSD I.D.	92521568019	
Spike I.D.:	19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.040	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.507	
MS Target Conc.(pCi/L, g, F):	9.481	
MSD Aliquot (L, g, F):	0.504	
MSD Target Conc. (pCi/L, g, F):	9.531	
MS Spike Uncertainty (calculated):	0.114	
MSD Spike Uncertainty (calculated):	0.114	
Sample Result:	0.346	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.170	
Sample Matrix Spike Result:	10.085	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	0.759	
Sample Matrix Spike Duplicate Result:	9.274	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.719	
MS Numerical Performance Indicator:	0.643	
MSD Numerical Performance Indicator:	-1.581	
MS Percent Recovery:	102.72%	
MSD Percent Recovery:	93.67%	
MS Status vs Numerical Indicator:	N/A	
MSD Status vs Numerical Indicator:	N/A	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	125%	
MS/MSD Lower % Recovery Limits:	75%	

Duplicate Sample Assessment		
Sample I.D.:	LCS58911	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD58911	
Sample Result (pCi/L, g, F):	4.762	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.526	
Sample Duplicate Result (pCi/L, g, F):	4.738	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.516	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.062	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	1.71%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.	92521568005
Sample MS I.D.	92521568018
Sample MSD I.D.	92521568019
Sample Matrix Spike Result:	10.085
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	0.759
Sample Matrix Spike Duplicate Result:	9.274
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.719
Duplicate Numerical Performance Indicator:	1.522
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	9.21%
MS/ MSD Duplicate Status vs Numerical Indicator:	N/A
MS/ MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

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

Comments:

Quality Control Sample Performance Assessment

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Test:	Ra-228
Analyst:	VAL
Date:	2/24/2021
Worklist:	58910
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2103736
MB concentration:	0.175
M/B 2 Sigma CSU:	0.283
MB MDC:	0.615
MB Numerical Performance Indicator:	1.21
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS58910	LCSD58910
Count Date:	3/1/2021	
Spike I.D.:	21-003	
Decay Corrected Spike Concentration (pCi/mL):	38.633	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.813	
Target Conc. (pCi/L, g, F):	4.751	
Uncertainty (Calculated):	0.233	
Result (pCi/L, g, F):	3.106	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.756	
Numerical Performance Indicator:	-4.07	
Percent Recovery:	65.39%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	2/10/2021	
Sample I.D.	92521568005	
Sample MS I.D.	92521568018	
Sample MSD I.D.	92521568019	
Spike I.D.:	21-003	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	38.879	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.805	
MS Target Conc.(pCi/L, g, F):	9.656	
MSD Aliquot (L, g, F):	0.808	
MSD Target Conc. (pCi/L, g, F):	9.628	
MS Spike Uncertainty (calculated):	0.473	
MSD Spike Uncertainty (calculated):	0.472	
Sample Result:	0.437	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.487	
Sample Matrix Spike Result:	8.391	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.709	
Sample Matrix Spike Duplicate Result:	6.453	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.402	
MS Numerical Performance Indicator:	-1.814	
MSD Numerical Performance Indicator:	-4.545	
MS Percent Recovery:	82.38%	
MSD Percent Recovery:	62.49%	
MS Status vs Numerical Indicator:	Pass	
MSD Status vs Numerical Indicator:	Fail****	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	135%	
MS/MSD Lower % Recovery Limits:	60%	

Duplicate Sample Assessment		
Sample I.D.:		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.		
Sample Result (pCi/L, g, F):		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.	92521568005
Sample MS I.D.	92521568018
Sample MSD I.D.	92521568019
Sample Matrix Spike Result:	8.391
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.709
Sample Matrix Spike Duplicate Result:	6.453
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.402
Duplicate Numerical Performance Indicator:	1.718
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	27.45%
MS/ MSD Duplicate Status vs Numerical Indicator:	Pass
MS/ MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

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

Comments:

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

March 11, 2021

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

RE: Project: YATES AP-2 RADS
Pace Project No.: 92521567

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 10, 2021 and February 12, 2021. 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,

Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: YATES AP-2 RADS
Pace Project No.: 92521567

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 #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: YATES AP-2 RADS
Pace Project No.: 92521567

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92521567004	**YGWC-26S (021021)**	Water	02/10/21 10:00	02/10/21 17:10
92521567005	**YGWC-26I (021021)**	Water	02/10/21 11:00	02/10/21 17:10
92521567006	**YGWC-27S (021021)**	Water	02/10/21 12:10	02/10/21 17:10
92521567007	**YGWC-27I (021021)**	Water	02/10/21 13:15	02/10/21 17:10
92521567008	**DUP-2 (021021)**	Water	02/10/21 00:00	02/10/21 17:10
92521567009	**YGWC-28I(021121)**	Water	02/11/21 09:40	02/11/21 13:03
92521567012	**YGWC-28S (021221)**	Water	02/12/21 15:20	02/12/21 17:10
92521567013	**YGWC-29I (021221)**	Water	02/12/21 14:20	02/12/21 17:10
92521567014	**EB-02 (021221)**	Water	02/12/21 15:30	02/12/21 17:10
92521567015	**YGWC-28I(021121) MS**	Water	02/11/21 09:40	02/11/21 13:03
92521567016	**YGWC-28I(021121) MSD**	Water	02/11/21 09:40	02/11/21 13:03

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES AP-2 RADS
Pace Project No.: 92521567

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92521567004	**YGWC-26S (021021)**	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521567005	**YGWC-26I (021021)**	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521567006	**YGWC-27S (021021)**	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521567007	**YGWC-27I (021021)**	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521567008	**DUP-2 (021021)**	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521567009	**YGWC-28I(021121)**	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92521567012	**YGWC-28S (021221)**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92521567013	**YGWC-29I (021221)**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92521567014	**EB-02 (021221)**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92521567015	**YGWC-28I(021121) MS**	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92521567016	**YGWC-28I(021121) MSD**	EPA 9315	MK1	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: YATES AP-2 RADS
Pace Project No.: 92521567

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521567004	**YGWC-26S (021021)**					
EPA 9315	Radium-226	0.0274 ± 0.0730 (0.179) C:86% T:NA	pCi/L		03/05/21 07:43	
EPA 9320	Radium-228	0.383 ± 0.365 (0.748) C:71% T:86%	pCi/L		02/26/21 11:30	
Total Radium Calculation	Total Radium	0.410 ± 0.438 (0.927)	pCi/L		03/05/21 14:01	
92521567005	**YGWC-26I (021021)**					
EPA 9315	Radium-226	0.240 ± 0.141 (0.192) C:83% T:NA	pCi/L		03/05/21 07:43	
EPA 9320	Radium-228	0.273 ± 0.374 (0.802) C:74% T:81%	pCi/L		02/26/21 11:30	
Total Radium Calculation	Total Radium	0.513 ± 0.515 (0.994)	pCi/L		03/05/21 14:01	
92521567006	**YGWC-27S (021021)**					
EPA 9315	Radium-226	0.179 ± 0.157 (0.307) C:84% T:NA	pCi/L		03/05/21 07:43	
EPA 9320	Radium-228	0.484 ± 0.373 (0.732) C:75% T:79%	pCi/L		02/26/21 11:30	
Total Radium Calculation	Total Radium	0.663 ± 0.530 (1.04)	pCi/L		03/05/21 14:01	
92521567007	**YGWC-27I (021021)**					
EPA 9315	Radium-226	1.57 ± 0.386 (0.235) C:87% T:NA	pCi/L		03/05/21 07:43	
EPA 9320	Radium-228	0.900 ± 0.418 (0.698) C:75% T:84%	pCi/L		02/26/21 11:31	
Total Radium Calculation	Total Radium	2.47 ± 0.804 (0.933)	pCi/L		03/05/21 14:01	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

SUMMARY OF DETECTION

Project: YATES AP-2 RADS
Pace Project No.: 92521567

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521567008	**DUP-2 (021021)**					
EPA 9315	Radium-226	0.209 ± 0.140 (0.222) C:80% T:NA	pCi/L		03/05/21 07:43	
EPA 9320	Radium-228	-0.0571 ± 0.352 (0.830) C:74% T:81%	pCi/L		02/26/21 11:31	
Total Radium Calculation	Total Radium	0.209 ± 0.492 (1.05)	pCi/L		03/05/21 14:01	
92521567009	**YGWC-28I(021121)**					
EPA 9315	Radium-226	0.181 ± 0.145 (0.267) C:84% T:NA	pCi/L		03/05/21 07:43	
EPA 9320	Radium-228	0.891 ± 0.393 (0.645) C:82% T:86%	pCi/L		02/26/21 11:31	
Total Radium Calculation	Total Radium	1.07 ± 0.538 (0.912)	pCi/L		03/05/21 14:01	
92521567012	**YGWC-28S (021221)**					
EPA 9315	Radium-226	0.295 ± 0.102 (0.124) C:93% T:NA	pCi/L		03/09/21 19:03	
EPA 9320	Radium-228	0.124 ± 0.277 (0.616) C:77% T:87%	pCi/L		03/09/21 15:27	
Total Radium Calculation	Total Radium	0.419 ± 0.379 (0.740)	pCi/L		03/10/21 14:15	
92521567013	**YGWC-29I (021221)**					
EPA 9315	Radium-226	0.332 ± 0.108 (0.130) C:95% T:NA	pCi/L		03/09/21 19:03	
EPA 9320	Radium-228	0.494 ± 0.334 (0.632) C:80% T:89%	pCi/L		03/09/21 15:27	
Total Radium Calculation	Total Radium	0.826 ± 0.442 (0.762)	pCi/L		03/10/21 14:15	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: YATES AP-2 RADS
Pace Project No.: 92521567

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92521567014	**EB-02 (021221)**					
EPA 9315	Radium-226	-0.0448 ± 0.0859 (0.187) C:97% T:NA	pCi/L		03/09/21 19:03	
EPA 9320	Radium-228	-0.0392 ± 0.349 (0.818) C:79% T:83%	pCi/L		03/09/21 15:27	
Total Radium Calculation	Total Radium	0.000 ± 0.435 (1.01)	pCi/L		03/10/21 14:15	
92521567015	**YGWC-28I(021121) MS**					
EPA 9315	Radium-226	107.09 %REC ± NA (NA) C:NA T:NA	pCi/L		03/05/21 07:43	
EPA 9320	Radium-228	82.63 %REC ± NA (NA) C:NA T:NA	pCi/L		02/26/21 11:31	
92521567016	**YGWC-28I(021121) MSD**					
EPA 9315	Radium-226	90.68 %REC 16.60RPD ± NA (NA) C:NA T:NA	pCi/L		03/05/21 07:44	
EPA 9320	Radium-228	80.99 %REC 2.01 RPD ± NA (NA) C:NA T:NA	pCi/L		02/26/21 14:46	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS
Pace Project No.: 92521567

Sample: YGWC-26S (021021) **Lab ID: 92521567004** Collected: 02/10/21 10:00 Received: 02/10/21 17:10 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	**0.0274 ± 0.0730 (0.179) C:86% T:NA**	pCi/L	03/05/21 07:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.383 ± 0.365 (0.748) C:71% T:86%**	pCi/L	02/26/21 11:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.410 ± 0.438 (0.927)**	pCi/L	03/05/21 14:01	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS
Pace Project No.: 92521567

Sample: YGWC-26I (021021) **Lab ID: 92521567005** Collected: 02/10/21 11:00 Received: 02/10/21 17:10 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	**0.240 ± 0.141 (0.192) C:83% T:NA**	pCi/L	03/05/21 07:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.273 ± 0.374 (0.802) C:74% T:81%**	pCi/L	02/26/21 11:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.513 ± 0.515 (0.994)**	pCi/L	03/05/21 14:01	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS
Pace Project No.: 92521567

Sample: YGWC-27S (021021) **Lab ID: 92521567006** Collected: 02/10/21 12:10 Received: 02/10/21 17:10 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 ± 0.157 (0.307) C:84% T:NA**	pCi/L	03/05/21 07:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.484 ± 0.373 (0.732) C:75% T:79%**	pCi/L	02/26/21 11:30	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.663 ± 0.530 (1.04)**	pCi/L	03/05/21 14:01	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS
Pace Project No.: 92521567

Sample: YGWC-27I (021021) **Lab ID: 92521567007** Collected: 02/10/21 13:15 Received: 02/10/21 17:10 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	**1.57 ± 0.386 (0.235) C:87% T:NA**	pCi/L	03/05/21 07:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.900 ± 0.418 (0.698) C:75% T:84%**	pCi/L	02/26/21 11:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.47 ± 0.804 (0.933)**	pCi/L	03/05/21 14:01	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS
Pace Project No.: 92521567

Sample: DUP-2 (021021) **Lab ID: 92521567008** Collected: 02/10/21 00:00 Received: 02/10/21 17:10 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	**0.209 ± 0.140 (0.222) C:80% T:NA**	pCi/L	03/05/21 07:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0571 ± 0.352 (0.830) C:74% T:81%**	pCi/L	02/26/21 11:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.209 ± 0.492 (1.05)**	pCi/L	03/05/21 14:01	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS
Pace Project No.: 92521567

Sample: YGWC-28I(021121) **Lab ID: 92521567009** Collected: 02/11/21 09:40 Received: 02/11/21 13:03 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 ± 0.145 (0.267) C:84% T:NA**	pCi/L	03/05/21 07:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.891 ± 0.393 (0.645) C:82% T:86%**	pCi/L	02/26/21 11:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.07 ± 0.538 (0.912)**	pCi/L	03/05/21 14:01	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS
Pace Project No.: 92521567

Sample: YGWC-28S (021221) **Lab ID: 92521567012** Collected: 02/12/21 15:20 Received: 02/12/21 17:10 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	**0.295 ± 0.102 (0.124) C:93% T:NA**	pCi/L	03/09/21 19:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.124 ± 0.277 (0.616) C:77% T:87%**	pCi/L	03/09/21 15:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.419 ± 0.379 (0.740)**	pCi/L	03/10/21 14:15	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS
Pace Project No.: 92521567

Sample: YGWC-29I (021221) **Lab ID: 92521567013** Collected: 02/12/21 14:20 Received: 02/12/21 17:10 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	**0.332 ± 0.108 (0.130) C:95% T:NA**	pCi/L	03/09/21 19:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.494 ± 0.334 (0.632) C:80% T:89%**	pCi/L	03/09/21 15:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.826 ± 0.442 (0.762)**	pCi/L	03/10/21 14:15	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS
Pace Project No.: 92521567

Sample: EB-02 (021221) **Lab ID: 92521567014** Collected: 02/12/21 15:30 Received: 02/12/21 17:10 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	**-0.0448 ± 0.0859 (0.187) C:97% T:NA**	pCi/L	03/09/21 19:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0392 ± 0.349 (0.818) C:79% T:83%**	pCi/L	03/09/21 15:27	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.000 ± 0.435 (1.01)**	pCi/L	03/10/21 14:15	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS
Pace Project No.: 92521567

Sample: YGWC-28I(021121) MS **Lab ID: 92521567015** Collected: 02/11/21 09:40 Received: 02/11/21 13:03 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	**107.09 %REC ± NA (NA) C:NA T:NA**	pCi/L	03/05/21 07:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**82.63 %REC ± NA (NA) C:NA T:NA**	pCi/L	02/26/21 11:31	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS
Pace Project No.: 92521567

Sample: YGWC-28I(021121) MSD **Lab ID: 92521567016** Collected: 02/11/21 09:40 Received: 02/11/21 13:03 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	**90.68 %REC 16.60RPD ± NA (NA) C:NA T:NA**	pCi/L	03/05/21 07:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**80.99 %REC 2.01 RPD ± NA (NA) C:NA T:NA**	pCi/L	02/26/21 14:46	15262-20-1	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AP-2 RADS
Pace Project No.: 92521567

QC Batch: 435783
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92521567004, 92521567005, 92521567006, 92521567007, 92521567008, 92521567009, 92521567015, 92521567016

METHOD BLANK: 2103740 Matrix: Water
Associated Lab Samples: 92521567004, 92521567005, 92521567006, 92521567007, 92521567008, 92521567009, 92521567015, 92521567016

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.267 ± 0.143 (0.193) C:92% T:NA	pCi/L	03/05/21 07:29	

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 AP-2 RADS
Pace Project No.: 92521567

QC Batch: 436983
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92521567012, 92521567013, 92521567014

METHOD BLANK: 2109306 Matrix: Water
Associated Lab Samples: 92521567012, 92521567013, 92521567014

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0161 ± 0.0615 (0.127) C:96% T:NA	pCi/L	03/09/21 19:03	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AP-2 RADS
Pace Project No.: 92521567

QC Batch: 436984
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92521567012, 92521567013, 92521567014

METHOD BLANK: 2109307 Matrix: Water
Associated Lab Samples: 92521567012, 92521567013, 92521567014

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0130 ± 0.299 (0.696) C:76% T:89%	pCi/L	03/09/21 15:28	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AP-2 RADS
Pace Project No.: 92521567

QC Batch: 435784
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92521567004, 92521567005, 92521567006, 92521567007, 92521567008, 92521567009, 92521567015, 92521567016

METHOD BLANK: 2103741 Matrix: Water
Associated Lab Samples: 92521567004, 92521567005, 92521567006, 92521567007, 92521567008, 92521567009, 92521567015, 92521567016

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.191 ± 0.338 (0.740) C:71% T:85%	pCi/L	02/26/21 11:33	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: YATES AP-2 RADS
Pace Project No.: 92521567

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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AP-2 RADS
Pace Project No.: 92521567

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92521567004	**YGWC-26S (021021)**	EPA 9315	435783		
92521567005	**YGWC-26I (021021)**	EPA 9315	435783		
92521567006	**YGWC-27S (021021)**	EPA 9315	435783		
92521567007	**YGWC-27I (021021)**	EPA 9315	435783		
92521567008	**DUP-2 (021021)**	EPA 9315	435783		
92521567009	**YGWC-28I(021121)**	EPA 9315	435783		
92521567012	**YGWC-28S (021221)**	EPA 9315	436983		
92521567013	**YGWC-29I (021221)**	EPA 9315	436983		
92521567014	**EB-02 (021221)**	EPA 9315	436983		
92521567015	**YGWC-28I(021121) MS**	EPA 9315	435783		
92521567016	**YGWC-28I(021121) MSD**	EPA 9315	435783		
92521567004	**YGWC-26S (021021)**	EPA 9320	435784		
92521567005	**YGWC-26I (021021)**	EPA 9320	435784		
92521567006	**YGWC-27S (021021)**	EPA 9320	435784		
92521567007	**YGWC-27I (021021)**	EPA 9320	435784		
92521567008	**DUP-2 (021021)**	EPA 9320	435784		
92521567009	**YGWC-28I(021121)**	EPA 9320	435784		
92521567012	**YGWC-28S (021221)**	EPA 9320	436984		
92521567013	**YGWC-29I (021221)**	EPA 9320	436984		
92521567014	**EB-02 (021221)**	EPA 9320	436984		
92521567015	**YGWC-28I(021121) MS**	EPA 9320	435784		
92521567016	**YGWC-28I(021121) MSD**	EPA 9320	435784		
92521567004	**YGWC-26S (021021)**	Total Radium Calculation	437456		
92521567005	**YGWC-26I (021021)**	Total Radium Calculation	437457		
92521567006	**YGWC-27S (021021)**	Total Radium Calculation	437457		
92521567007	**YGWC-27I (021021)**	Total Radium Calculation	437457		
92521567008	**DUP-2 (021021)**	Total Radium Calculation	437457		
92521567009	**YGWC-28I(021121)**	Total Radium Calculation	437457		
92521567012	**YGWC-28S (021221)**	Total Radium Calculation	438070		
92521567013	**YGWC-29I (021221)**	Total Radium Calculation	438070		
92521567014	**EB-02 (021221)**	Total Radium Calculation	438070		

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	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# : 92521567

92521567

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☑ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/10/21

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

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

Cooler Temp: 2.1 **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): 2.1

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

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CDC 2

Section A — Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Kingston, GA 30114
Email:
Phone: (770)384-6526 Fax:
Requested Due Date:

Section B — Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates AP-2
Project #:

Section C — Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	92521567
1	~~YGWA-4I~~	WT																	x	x	x		-
2	~~YGWA-4S~~	WT																	x	x	x		-
3	YGWA-2I	WT																	x	x	x		-
4	~~YGWA-2I~~	WT																	x	x	x		-
5	~~YGWA-3D~~ EB-02	WT		02/10/24	1130			4											x	x	x		-
6	YGWA-14S	WT		02/10/24	0850			4											x	x	x		pH : 5.35
7	~~YGWA-39I~~ Dup-1	WT		02/10/24	—			4											x	x	x		~~pH : 5.18~~
8	YGWC-26S	WT		02/10/24	1000			4											x	x	x		pH : 5.18
9	YGWC-26I	WT		02/10/24	1100			4											x	x	x		pH = 5.96
10	YGWC-27S	WT		02/10/24	1210			4											x	x	x		pH = 6.21
11	YGWC-27I	WT		02/10/24	1315			4											x	x	x		pH = 6.89
12	~~YGWC-28S~~ Dup-2	WT		02/10/24	—			4											x	x	x		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
				Charles Herring	2/10/24	1710	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Peter Argyrakis
SIGNATURE of SAMPLER:
DATE Signed: 02/10/2021

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

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CHAIN-OF-CUSTODY / Analytical Request Document

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COC 2

Section A
Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Canton, GA 30114
Email:
Phone: (770)384-6526 Fax:
Requested Due Date:

Section B
Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates AP-2
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	9252166
13	YGWC-28I (021121)	WT		2/11/21	0940			12.4											X	X	X		pH = 6.57
14	~~YGWC-28I~~	WT																	~~X~~	~~X~~	~~X~~		
15		WT																	X	X	X		
16		WT																	X	X	X		
17		WT																	X	X	X		
18		WT																	X	X	X		
19		WT																	X	X	X		
20		WT																	X	X	X		
21																							
22																							
23																							
24																							

MS/MSD

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	PJA [signature]			Charles Hank [signature]	2/11/21	1303	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Peter Argyiqlu
SIGNATURE of SAMPLER: [signature]
DATE Signed: 02/11/2021

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

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Section A — Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
[illegible]on, GA 30114
Email:
Phone: (770)384-6526 Fax
Requested Due Date:

Section B — Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: ~~Yates Rd~~ AP-2
Project #:

Section C — Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Regulatory Agency
State / Location: GA

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

Residual Chlorine (Y/N): 92521567

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)
1	~~[illegible]~~ YGWA-1-I	WT		2/12	1320														X	X	X	pH 6.21
2	~~[illegible]~~ YGWA-I-I (021221)	WT		2/12	1155				12	X		X							X	X	X	pH 7.14
3	~~[illegible]~~	WT																	X	X	X	
4	~~[illegible]~~	WT																	X	X	X	
5	~~[illegible]~~	WT																	X	X	X	
6	~~[illegible]~~	WT																	X	X	X	
7																						
8																						
9																						
10																						
11																						
12																						

Margin notes: 010 ms/msd 011

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)
	Becky Steever / Arcadis	2/12/21	1710	K. [illegible] / Pace	2/12/21	1710	2.5	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Becky Steever
SIGNATURE of SAMPLER: [signature] DATE Signed: 2/12/21

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CHAIN-OF-CUSTODY / Analytical Request Document

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Section A
Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
on, GA 30114
Email:
Phone: (770)384-6526 Fax
Requested Due Date:

Section B
Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates AP-2
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com
Pace Profile #: 10840

Regulatory Agency
State / Location: GA

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: Y/N	App IV Metals	Fluoride	RAD 9315/9320	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
YGWC-28 (02122)	WT		2/12	1520				4	X		X							X	X	X		01Z
YGWC-29I (02122)	WT		2/12	1420				4	X		X							X	X	X		pH 6.60 01J
EB-02 (02122)	WT		2/12	1530				4	X		X							X	X	X		pH 6.24 01U
	WT																	X	X	X		
	WT																	X	X	X		
	WT																	X	X	X		
	WT																	X	X	X		
	WT																	X	X	X		

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Becky Steever / Atlantic	2/12/22	1705	K. Herring / PACE	2/12/22	1210

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Becky Steever
SIGNATURE of SAMPLER:
DATE Signed: 2/12/22

Quality Control Sample Performance Assessment

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Test:	Ra-226
Analyst:	MK1
Date:	2/26/2021
Worklist:	58912
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2103740
MB concentration:	0.267
M/B Counting Uncertainty:	0.137
MB MDC:	0.193
MB Numerical Performance Indicator:	3.81
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS58912	LCSD58912
Count Date:	3/5/2021	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.040	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.508	
Target Conc. (pCi/L, g, F):	4.733	
Uncertainty (Calculated):	0.057	
Result (pCi/L, g, F):	4.870	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.530	
Numerical Performance Indicator:	0.50	
Percent Recovery:	102.88%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	125%	
Lower % Recovery Limits:	75%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	2/11/2021	2/11/2021
Sample I.D.	92521567009	92521564001
Sample MS I.D.	92521567015	92521564011
Sample MSD I.D.	92521567016	92521564012
Spike I.D.:	19-033	19-033
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.040	24.040
Spike Volume Used in MS (mL):	0.20	0.20
Spike Volume Used in MSD (mL):	0.20	0.20
MS Aliquot (L, g, F):	0.505	0.511
MS Target Conc.(pCi/L, g, F):	9.519	9.411
MSD Aliquot (L, g, F):	0.508	0.505
MSD Target Conc. (pCi/L, g, F):	9.464	9.529
MS Spike Uncertainty (calculated):	0.114	0.113
MSD Spike Uncertainty (calculated):	0.114	0.114
Sample Result:	0.181	0.302
Sample Result Counting Uncertainty (pCi/L, g, F):	0.143	0.154
Sample Matrix Spike Result:	10.375	9.287
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	0.766	0.714
Sample Matrix Spike Duplicate Result:	8.763	9.868
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.699	0.770
MS Numerical Performance Indicator:	1.680	-1.128
MSD Numerical Performance Indicator:	-2.392	0.091
MS Percent Recovery:	107.09%	95.48%
MSD Percent Recovery:	90.68%	100.39%
MS Status vs Numerical Indicator:	N/A	N/A
MSD Status vs Numerical Indicator:	N/A	N/A
MS Status vs Recovery:	Pass	Pass
MSD Status vs Recovery:	Pass	Pass
MS/MSD Upper % Recovery Limits:	125%	125%
MS/MSD Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment		
Sample I.D.:		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.		
Sample Result (pCi/L, g, F):		
Sample Result Counting Uncertainty (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):		
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.	92521567009	92521564001
Sample MS I.D.	92521567015	92521564011
Sample MSD I.D.	92521567016	92521564012
Sample Matrix Spike Result:	10.375	9.287
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	0.766	0.714
Sample Matrix Spike Duplicate Result:	8.763	9.868
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.699	0.770
Duplicate Numerical Performance Indicator:	3.046	-1.083
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	16.60%	5.01%
MS/ MSD Duplicate Status vs Numerical Indicator:	N/A	N/A
MS/ MSD Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	25%	25%

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

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

CW 3/5/21

LAM 3/5/21

Quality Control Sample Performance Assessment

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Test:	Ra-226
Analyst:	LAL
Date:	3/8/2021
Worklist:	59076
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2109306
MB concentration:	0.016
M/B Counting Uncertainty:	0.061
MB MDC:	0.127
MB Numerical Performance Indicator:	0.51
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS59076	LCSD59076
Count Date:	3/9/2021	3/9/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.039	24.039
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.515	0.504
Target Conc. (pCi/L, g, F):	4.670	4.770
Uncertainty (Calculated):	0.056	0.057
Result (pCi/L, g, F):	4.824	4.558
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.322	0.307
Numerical Performance Indicator:	0.92	-1.34
Percent Recovery:	103.30%	95.54%
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:	2/12/2021	
Sample I.D.	92521567011	
Sample MS I.D.	92521567017	
Sample MSD I.D.	92521567018	
Spike I.D.:	19-033	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	24.040	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.509	
MS Target Conc.(pCi/L, g, F):	9.441	
MSD Aliquot (L, g, F):	0.516	
MSD Target Conc. (pCi/L, g, F):	9.321	
MS Spike Uncertainty (calculated):	0.113	
MSD Spike Uncertainty (calculated):	0.112	
Sample Result:	0.275	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.091	
Sample Matrix Spike Result:	9.592	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	0.420	
Sample Matrix Spike Duplicate Result:	8.832	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.389	
MS Numerical Performance Indicator:	-0.549	
MSD Numerical Performance Indicator:	-3.620	
MS Percent Recovery:	98.68%	
MSD Percent Recovery:	91.79%	
MS Status vs Numerical Indicator:	N/A	
MSD Status vs Numerical Indicator:	N/A	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	125%	
MS/MSD Lower % Recovery Limits:	75%	

Duplicate Sample Assessment		
Sample I.D.:	LCS59076	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD59076	
Sample Result (pCi/L, g, F):	4.824	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.322	
Sample Duplicate Result (pCi/L, g, F):	4.558	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.307	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.175	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.80%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.	92521567011	
Sample MS I.D.	92521567017	
Sample MSD I.D.	92521567018	
Sample Matrix Spike Result:	9.592	
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	0.420	
Sample Matrix Spike Duplicate Result:	8.832	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.389	
Duplicate Numerical Performance Indicator:	2.607	
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	7.24%	
MS/ MSD Duplicate Status vs Numerical Indicator:	N/A	
MS/ MSD Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

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

Comments:

LAm 3/10/21

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	2/24/2021
Worklist:	58913
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2103741
MB concentration:	0.191
M/B 2 Sigma CSU:	0.338
MB MDC:	0.740
MB Numerical Performance Indicator:	1.11
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS58913	LCSD58913
Count Date:	2/26/2021	
Spike I.D.:	21-003	
Decay Corrected Spike Concentration (pCi/mL):	38.674	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.817	
Target Conc. (pCi/L, g, F):	4.733	
Uncertainty (Calculated):	0.232	
Result (pCi/L, g, F):	3.843	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.893	
Numerical Performance Indicator:	-1.89	
Percent Recovery:	81.20%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	2/11/2021	2/9/2021
Sample I.D.	92521567009	92521564001
Sample MS I.D.	92521567015	92521564011
Sample MSD I.D.	92521567016	92521564012
Spike I.D.:	21-003	21-003
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	38.867	38.867
Spike Volume Used in MS (mL):	0.20	0.20
Spike Volume Used in MSD (mL):	0.20	0.20
MS Aliquot (L, g, F):	0.807	0.808
MS Target Conc.(pCi/L, g, F):	9.638	9.616
MSD Aliquot (L, g, F):	0.804	0.808
MSD Target Conc. (pCi/L, g, F):	9.668	9.623
MS Spike Uncertainty (calculated):	0.472	0.471
MSD Spike Uncertainty (calculated):	0.474	0.472
Sample Result:	0.891	0.320
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.393	0.348
Sample Matrix Spike Result:	8.855	10.063
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.785	2.018
Sample Matrix Spike Duplicate Result:	8.720	9.243
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.753	1.842
MS Numerical Performance Indicator:	-1.738	0.118
MSD Numerical Performance Indicator:	-1.939	-0.709
MS Percent Recovery:	82.63%	101.32%
MSD Percent Recovery:	80.99%	92.73%
MS Status vs Numerical Indicator:	Pass	Pass
MSD Status vs Numerical Indicator:	Pass	Pass
MS Status vs Recovery:	Pass	Pass
MSD Status vs Recovery:	Pass	Pass
MS/MSD Upper % Recovery Limits:	135%	135%
MS/MSD Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment		
Sample I.D.:		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.		
Sample Result (pCi/L, g, F):		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment		
Sample I.D.	92521567009	92521564001
Sample MS I.D.	92521567015	92521564011
Sample MSD I.D.	92521567016	92521564012
Sample Matrix Spike Result:	8.855	10.063
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	1.785	2.018
Sample Matrix Spike Duplicate Result:	8.720	9.243
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.753	1.842
Duplicate Numerical Performance Indicator:	0.105	0.588
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	2.01%	8.85%
MS/ MSD Duplicate Status vs Numerical Indicator:	Pass	Pass
MS/ MSD Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	36%	36%

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

Comments:

3/1/21

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	VAL
Date:	3/5/2021
Worklist:	59077
Matrix:	WT

Method Blank Assessment	
MB Sample ID	2109307
MB concentration:	0.013
M/B 2 Sigma CSU:	0.299
MB MDC:	0.696
MB Numerical Performance Indicator:	0.09
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS59077	**LCSD59077**
Count Date:	3/9/2021	
Spike I.D.:	21-003	
Decay Corrected Spike Concentration (pCi/mL):	38.532	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.804	
Target Conc. (pCi/L, g, F):	4.794	
Uncertainty (Calculated):	0.235	
Result (pCi/L, g, F):	4.455	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.022	
Numerical Performance Indicator:	-0.63	
Percent Recovery:	92.93%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:	2/12/2021	
Sample I.D.	92521567011	
Sample MS I.D.	92521567017	
Sample MSD I.D.	92521567018	
Spike I.D.:	21-003	
MS/MSD Decay Corrected Spike Concentration (pCi/mL):	38.853	
Spike Volume Used in MS (mL):	0.20	
Spike Volume Used in MSD (mL):	0.20	
MS Aliquot (L, g, F):	0.802	
MS Target Conc.(pCi/L, g, F):	9.694	
MSD Aliquot (L, g, F):	0.817	
MSD Target Conc. (pCi/L, g, F):	9.511	
MS Spike Uncertainty (calculated):	0.475	
MSD Spike Uncertainty (calculated):	0.466	
Sample Result:	0.091	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.322	
Sample Matrix Spike Result:	10.413	
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.066	
Sample Matrix Spike Duplicate Result:	8.770	
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.764	
MS Numerical Performance Indicator:	0.574	
MSD Numerical Performance Indicator:	-0.880	
MS Percent Recovery:	106.48%	
MSD Percent Recovery:	91.25%	
MS Status vs Numerical Indicator:	Pass	
MSD Status vs Numerical Indicator:	Pass	
MS Status vs Recovery:	Pass	
MSD Status vs Recovery:	Pass	
MS/MSD Upper % Recovery Limits:	135%	
MS/MSD Lower % Recovery Limits:	60%	

Duplicate Sample Assessment		
Sample I.D.:		Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.		
Sample Result (pCi/L, g, F):		
Sample Result 2 Sigma CSU (pCi/L, g, F):		
Sample Duplicate Result (pCi/L, g, F):		
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:		
Duplicate RPD:		
Duplicate Status vs Numerical Indicator:		
Duplicate Status vs RPD:		
% RPD Limit:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.	92521567011
Sample MS I.D.	92521567017
Sample MSD I.D.	92521567018
Sample Matrix Spike Result:	10.413
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):	2.066
Sample Matrix Spike Duplicate Result:	8.770
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.764
Duplicate Numerical Performance Indicator:	1.186
(Based on the Percent Recoveries) MS/ MSD Duplicate RPD:	15.40%
MS/ MSD Duplicate Status vs Numerical Indicator:	Pass
MS/ MSD Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

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

Comments:

March 2021

ARCADIS Design & Consultancy for natural and built assets

Georgia Power Co. – Plant Yates

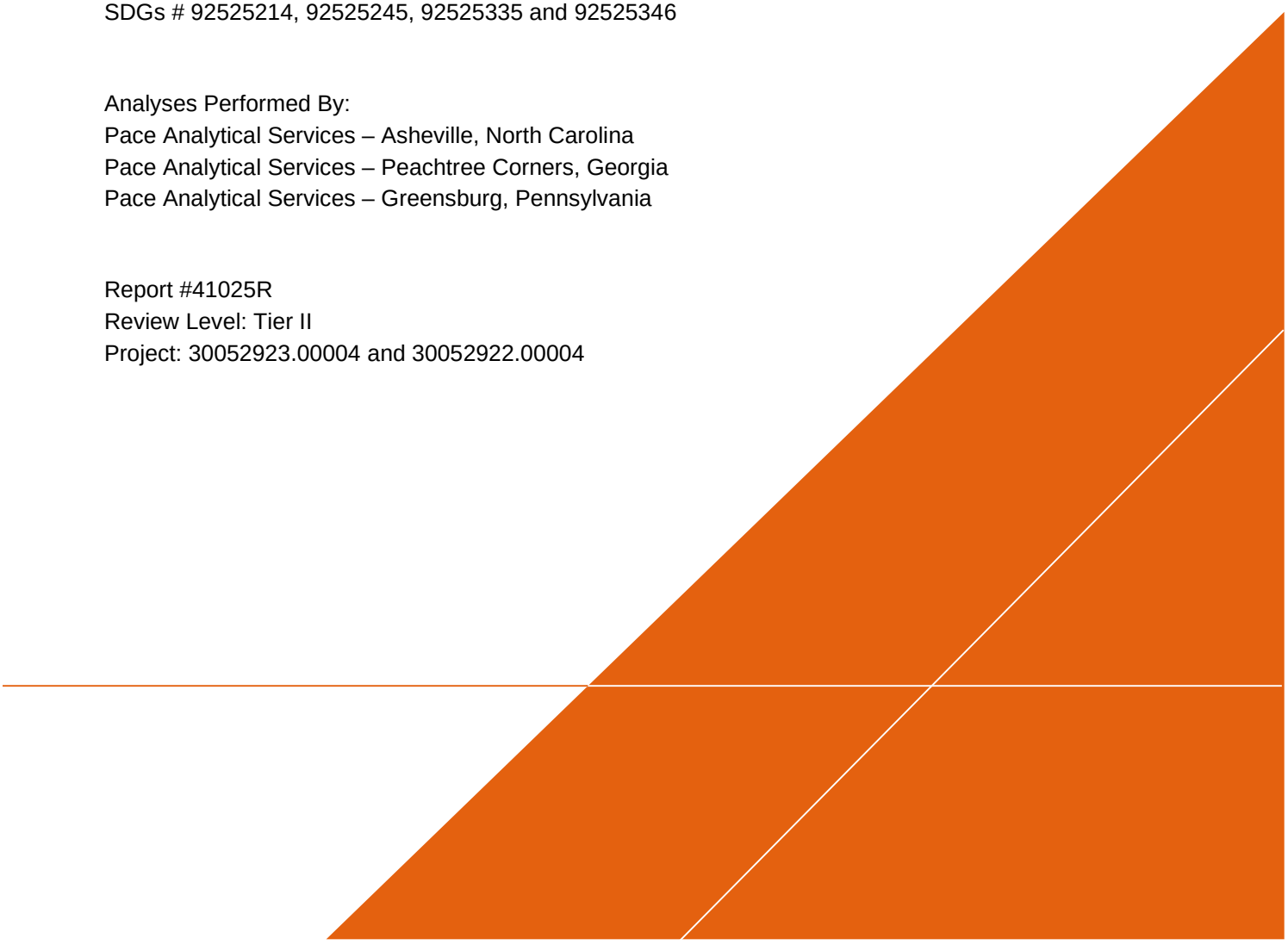
DATA REVIEW

Metals, Radium, and General Chemistry Analyses

SDGs # 92525214, 92525245, 92525335 and 92525346

Analyses Performed By:
Pace Analytical Services – Asheville, North Carolina
Pace Analytical Services – Peachtree Corners, Georgia
Pace Analytical Services – Greensburg, Pennsylvania

Report #41025R
Review Level: Tier II
Project: 30052923.00004 and 30052922.00004



SUMMARY

This data quality assessment summarizes the review of Sample Delivery Groups (SDGs) # 92525214, 92525245, 92525335 and 92525346 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:

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
						RAD	MET	GEN CHEM
92525214 92525335	YGWA-5I	92525214-1 92525335-1	Water	03/02/21		X	X	X
	YGWA-5D	92525214-2 92525335-2	Water	03/02/21		X	X	X
	DUP-1E DUP-1S	92525214-3 92525335-3	Water	03/02/21	YGWA-5D	X	X	X
	YGWA-14S	92525214-5 92525335-5	Water	03/02/21		X	X	X
	YGWA-30I	92525214-6 92525335-6	Water	03/01/21		X	X	X
	FB-01	92525214-7 92525335-7	Water	03/02/21		X	X	X
	DUP-01G DUP-01P	92525214-8 92525335-8	Water	03/02/21	YGWA-14S	X	X	X
	FB-01	92525214-9 92525335-9	Water	03/02/21		X	X	X
	YGWA-40	92525214-11 92525335-11	Water	03/04/21		X	X	X
	YGWA-17S	92525214-12 92525335-12	Water	03/03/21		X	X	X
	YGWA-18S	92525214-13 92525335-13	Water	03/03/21		X	X	X
	YGWA-18I	92525214-14 92525335-14	Water	03/03/21		X	X	X
	YGWA-39	92525214-15 92525335-15	Water	03/04/21		X	X	X
	YGWA-1D	92525214-16	Water	03/03/21		X	X	X

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
						RAD	MET	GEN CHEM
		92525335-16						
92525214 92525335	YGWA-1I	92525214-17 92525335-17	Water	03/03/21		X	X	X
	YGWA-2I	92525214-18 92525335-18	Water	03/03/21		X	X	X
	YGWA-3I	92525214-19 92525335-19	Water	03/03/21		X	X	X
	YGWA-3D	92525214-20 92525335-20	Water	03/03/21		X	X	X
	EB-02	92525214-21 92525335-21	Water	03/03/21		X	X	X
	YGWA-4I	92525214-22 92525335-22	Water	03/03/21		X	X	X
	YGWA-20S	92525214-23 92525335-23	Water	03/03/21		X	X	X
	YGWA-21I	92525214-24 92525335-24	Water	03/04/21		X	X	X
92525245 92525346	YGWC-26S	92525245-1 92525346-1	Water	03/02/21		X	X	X
	YGWC-28I	92525245-2 92525346-2	Water	03/03/21		X	X	X
	YGWC-29I	92525245-3 92525346-3	Water	03/03/21		X	X	X
	EB-01	92525245-4 92525346-4	Water	03/03/21		X	X	X
	DUP-02	92525245-5 92525346-5	Water	03/03/21	YGWC-26I	X	X	X
	YGWC-26I	92525245-6 92525346-6	Water	03/03/21		X	X	X
	YGWV-27S	92525245-7 92525346-7	Water	03/03/21		X	X	X
	YGWC-27I	92525245-8 92525346-8	Water	03/03/21		X	X	X
	YGWC-28S	92525245-9 92525346-9	Water	03/03/21		X	X	X
	EB-01	92525237-7 92525346-10	Water	03/03/21		X	X	X

Notes:

1. Metals and total dissolved solids (TDS) were performed by Pace Analytical Services – Peachtree Corners, Georgia.
2. Anions (chloride, fluoride and sulfide) 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 is the evaluation of 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 (COC) 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 SM 2540C; 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 National Functional Guidelines for Inorganic Superfund Methods Data Review (January2017).

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 reported sample detection 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 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.

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 associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (B) of data. 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-2I YGWA-3I	Barium (EB)	Detected sample results <RL and <BAL	“UB” at the RL
YGWA-18S	Calcium (EB)	Detected sample results <RL and <BAL	“UB” at the RL
DUP-01G DUP-1E YGWA-14S YGWA-15D YGWA-5I YGWA-5D	Calcium (FB) Barium (FB)	Detected sample results >RL and <BAL	“UB” at detected sample concentration

Sample Locations	Analytes	Sample Result	Qualification
YGWA-17S YGWA-18I	Calcium (EB)	Detected sample results >RL and <BAL	"UB" at detected sample concentration
YGWA-1D YGWA-1I YGWA-20S YGWA-2I YGWA-3D YGWA-3I YGWA-4I	Calcium (EB)	Detected sample results >RL and <BAL	"UB" at detected sample concentration
YGWA-17S YGWA-18I YGWA-18S YGWA-1D YGWA-1I YGWA-20S YGWA-3D YGWA-4I	Barium (EB)	Detected sample results >RL and <BAL	"UB" at detected sample concentration
YGWA-17S YGWA-18I YGWA-18S YGWA-4I	Chromium (EB)	Detected sample results <RL and <BAL	"UB" at the RL
YGWA-18I YGWA-18S YGWA-1I YGWA-2I YGWA-3D YGWA-4I	Lithium (EB)	Detected sample results <RL and <BAL	"UB" at the RL

Note:

EB = Equipment blank

RL = Reporting limit

FB = Field Blank

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 performed on samples YGWA-5I, YGWA-40, YGWA-5D, YGWA-17S and YGWC-28I exhibited recoveries and RPDs 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 RPD.

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
YGWA-5D / DUP-1E	Antimony	0.0030 U	0.0015 J	AC
	Barium	0.014	0.014	0.0%
	Boron	0.0068 J	0.013 J	AC
	Lead	0.000051 J	0.000069 J	AC
	Lithium	0.0018 J	0.0016 J	AC
YGWA-14S / DUP-01G	Barium	0.0076	0.0078	AC
	Beryllium	0.00018 J	0.00020 J	AC
	Boron	0.017 J	0.016 J	AC
YGWC-26I / DUP-02	Barium	0.064	0.065	1.6%
	Boron	0.69	0.69	0.0%
	Chromium	0.0050 U	0.00072 J	AC
	Lithium	0.0077 J	0.0078 J	AC
	Selenium	0.0034 J	0.0029 J	AC

Note:

AC = Acceptable

The RPD between the parent samples and the field duplicate samples 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	
Field/Lab Duplicate (RPD)		X		X	
Reporting Limit Verification		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
Fluoride by USEPA 300.0	Water	28 days from collection to analysis	Cool to <6°C
Total Dissolved Solids by SM2540C	Water	7 days from collection to analysis	Cool to <6°C

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

All compounds associated with the QA blanks exhibited a concentration less than the MDL, with the exception of the compounds listed in the following table. Sample results associated with QA blank contamination that were greater than the BAL resulted in the removal of the laboratory qualifier (B) of data. 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-1D YGWA-2I YGWA-3I	Chloride (EB)	Detected sample results <RL and <BAL	“UB” at the RL
DUP-01G DUP-1E YGWA-14S YGWA-15D YGWA-5I YGWA-5D YGWA-4I	Chloride (FB) Sulfate (FB)	Detected sample results >RL and <BAL	“UB” at detected sample concentration

Sample Locations	Analytes	Sample Result	Qualification
YGWA-17S YGWA-18I	Chloride (EB)	Detected sample results >RL and <BAL	"UB" at detected sample concentration
YGWA-18S YGWA-1I YGWA-20S YGWA-3D	Chloride (EB)	Detected sample results >RL and <BAL	"UB" at detected sample concentration
YGWA-17S YGWA-18S YGWA-1D YGWA-1I YGWA-2I YGWA-3D YGWA-3I	Sulfate (EB)	Detected sample results >RL and <BAL	"UB" at detected sample concentration

Note:

EB = Equipment blank

RL = Reporting limit

MB = Method Blank

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 performed on sample YGWA-5I for the anions exhibited recoveries and RPDs within the control limits.

All analytes associated with MS/MSD recoveries were within control limits with the exception of the following analyte present in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
YGWA-3I	Sulfate	65.5%	64.7%
DUP-02	Sulfate	53.0%	56.0%

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 the parent sample.

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 performed on sample YGWC-28S for TDS exhibited an RPD within the control limits.

All analytes associated with laboratory duplicate RPD were within the control limit, with the exception of the analytes presented in the following table.

Sample Location	Analytes	Laboratory RPD
YGWA-30I	TDS	56%

The criteria used to evaluate laboratory duplicate RPD are presented in the following table. In the case of a laboratory duplicate RPD deviation, the sample results are qualified. The qualifications are applied to the parent sample result associated with this SDG.

Sample Concentration	Control Limit	Sample Result	Qualification
Parent sample and laboratory sample concentration >5 times RL	Water 20%	Non-detect	UJ
		Detect	J
Parent sample and/or laboratory duplicate sample result ≤ five times the RL and difference between samples >RL	Water one times RL	Non-detect	UJ
		Detect	J

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
YGWA-5D / DUP-1E	TDS	52	48	8.0%
	Chloride	3.2	3.0	AC
	Sulfate	2.6	2.0	AC
YGWA-14S / DUP-01G	TDS	67	32	NC
	Chloride	4.9	5.0	AC
	Sulfate	6.0	6.1	1.7%
YGWC-26I / DUP-02	TDS	205	216	5.2%
	Chloride	16.6	16.6	0.0%
	Fluoride	0.050 J	0.10 U	AC
	Sulfate	89.3	88.8	0.6%

Notes:

AC = Acceptable

NC = Non Compliant

The analyte TDS associated with samples locations YGWA-14S and DUP-01G exhibited a field duplicate RPD greater than the control limit. The associated sample results from sample locations for the listed analyte were qualified as estimated.

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 and 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 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	
Field/Lab Duplicate (RPD)		X	X		
Dilution Factor		X		X	
Moisture Content	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 reporting limit (RL) of 1 pCi/L.

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 minimum detectable concentration (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*

* = 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.

x_0 = measured concentration of the unspiked sample.

c = spike concentration added.

$u^2(x)$, $u^2(x0)$, $u^2(c)$ = 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.

A MS/MSD was not included in the data package.

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 performed on sample YGWA-5I exhibited RPDs within the control limits.

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:

For all analyses in soil matrices, 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 analysis is used to assess the overall precision of the field sampling procedures and analytical method. For results greater than five times the MDC, a control limit of 35 percent for water matrices is applied to the RPD between the parent and field duplicate sample results. If the parent and field duplicate sample results are less than five times the MDC, for water matrices a control limit of two times the MDC is applied to the difference between the results.

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

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YGWA-5D / DUP-1S	Radium-226	1.21 +/- 0.344	0.838 +/- 0.268	AC
	Radium-228	0.457 +/- 0.363	0.784 +/- 0.426	
	Total Radium	1.67 +/- 0.707	1.62 +/- 0.694	
YGWA-14S / DUP-01P	Radium-226	0.283 +/- 0.267	0.118 +/- 0.120	AC

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	Radium-228	0.427 +/- 0.338	0.809 +/- 0.394	
	Total Radium	0.710 +/- 0.605	0.927 +/- 0.514	
YGWC-26I / DUP-02	Radium-226	0.247 +/- 0.138	0.132 +/- 0.133	AC
	Radium-228	0.172 +/- 0.331	0.222 +/- 0.291	
	Total Radium	0.419 +/- 0.469	0.354 +/- 0.424	

Notes:

AC = Acceptable

The RPD between the parent samples and the field duplicate samples 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% to110% 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-5I – Radium 226, Radium 228 and Total Radium
- YGWA-5D – Radium-228
- YGWA-14S - Radium 226, Radium 228 and Total Radium
- YGWA-30I - Radium 226, Radium 228 and Total Radium
- FB-01 - Radium 226, Radium 228 and Total Radium
- DUP-01P – Radium 226 and Total Radium
- FB-01 - Radium 226 and Total Radium
- GWA-2 - Radium 226 and Total Radium
- YGWA-40 - Radium 226, Radium 228 and Total Radium
- YGWA-17S - Radium 226, Radium 228 and Total Radium
- YGWA-18S - Radium 226, Radium 228 and Total Radium
- YGWA-18I - Radium 228 and Total Radium
- YGWA-39 - Radium 228 and Total Radium
- YGWA-1D - Radium 226, Radium 228 and Total Radium
- YGWA-1I - Radium 226, Radium 228 and Total Radium
- YGWA-2I - Radium 226, Radium 228 and Total Radium
- YGWA-3D – Radium 226 and Total Radium
- EB-02 - Radium 226, Radium 228 and Total Radium
- YGWA-4I – Radium 228
- YGWA-20S - Radium 226, Radium 228 and Total Radium
- YGWA-21I – Radium 228
- YGWC-26S - Radium 226, Radium 228 and Total Radium
- YGWC-28I - Radium 226, Radium 228 and Total Radium
- YGWC-29I – Radium 228
- EB-01 - Radium 226, Radium 228 and Total Radium
- DUP-02 - Radium 226, Radium 228 and Total Radium

- YGWC-26I – Radium 228 and Total Radium
- YGWC-27S - Radium 226, Radium 228 and Total Radium
- YGWC-27I – Radium 228
- YGWC-28S – Radium 228
- EB-01 - 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	
Gas-Flow Proportional System					
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)		X		X	
Laboratory Control Sample Duplicate (LCSD)		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	
Field/Lab Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

VALIDATION PERFORMED BY: Rachelle Borne

SIGNATURE: 

DATE: May 14, 2021

PEER REVIEW: Jennifer Singer

DATE: May 18, 2021

CHAIN OF CUSTODY / DATA QUALIFIER SUMMARY TABLE

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COC 1 of 1

Section A
Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Acton, GA 30114
Email:
Phone: (770)384-6526 Fax:
Requested Due Date:

Section B
Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates AMA
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/8320	Residual Chlorine (Y/N)
1		WT																	X	X	X	X	9252524
2		WT																	X	X	X	X	
3		WT																	X	X	X	X	
4	YGWA-4I	WT																	X	X	X	X	
5	~~YGWA-5I~~ YGWA-5I	WT		3/2	1405				5	1			1						X	X	X	X	
6	YGWA-5D YGWA-5D	WT		3/2	1440				5	1			1						X	X	X	X	pH 5.63
7	~~YGWA-17S~~ DUP-1	WT		3/2	-				5	1			1						X	X	X	X	pH 7.15
8	~~YGWA-18S~~	WT							5	1			1						X	X	X	X	→
9	YGWA-18I	WT																	X	X	X	X	
10	YGWA-20S	WT																	X	X	X	X	
11	~~YGWA-24I~~	WT																	X	X	X	X	
12	YGWA-33S	WT																	X	X	X	X	

MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		03/02/2021	1600		3.2.21	1600				
		3.2.21	1730		3/2/21	1730	410	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Peter Angyalics
SIGNATURE of SAMPLER:
DATE Signed: 03/02/2021

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

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COC 1 - 06

Section A
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Acton, GA 30114
Email:
Phone: (770)384-6526 Fax:
Requested Due Date:

Section B
Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates APPT Up Gradient
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
1		WT																	X	X	X	X		92525214
2		WT																	X	X	X	X		pH
3		WT																	X	X	X	X		
4	YGWA-47	WT		3/1	1210				5	1									X	X	X	X		pH 5.48
5	~~YGWC-60~~	WT																	X	X	X	X		
6	~~YGWC-44~~	WT																	X	X	X	X		
7	~~YGWC-45~~	WT																	X	X	X	X		
8	~~YGWC-45A~~	WT																	X	X	X	X		
9																								
10																								
11																								
12																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		03/02/2021	1530	Vault	3-2-21	1536				
		3.2.21	1736	Via Fedex	3/2/21	1730	4.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Reese Argyrakis

SIGNATURE of SAMPLER:

DATE Signed: 03/02/2021

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

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COC 1 - UG

Section A
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Ellijay, GA 30114
Email:
Phone: (770)384-6526 Fax:
Requested Due Date:

Section B
Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates ~~AP-2~~ Gp Gradient
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)
~~YGWA-4S~~	WT																	x	x	x	x	
~~YGWA-4I~~	WT																	x	x	x	x	
~~YGWA-8I~~	WT																	x	x	x	x	
~~YGWA-8D~~	WT																	x	x	x	x	
~~YGWA-8D~~	WT																	x	x	x	x	
YGWA-14S	WT		3/2	1120				5	✓		✓							x	x	x	x	
YGWA-30I	WT		3/2	1125				5	✓		✓							x	x	x	x	
~~YGWG-26S~~ FB-01	WT		3/2	1130				5	✓		✓							x	x	x	x	
~~YGWG-26I~~ DUP-01	WT		3/2	—				5	✓		✓							x	x	x	x	
~~YGWG-27S~~	WT																	x	x	x	x	
~~YGWG-27I~~	WT																	x	x	x	x	
~~YGWG-28S~~	WT																	x	x	x	x	

Residual Chlorine (Y/N): 92525214

pH 5.49
pH 5.78
—
—

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		3/2/21	17:30		3/2/21	1730	4.0	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Katie Jurkiewicz
SIGNATURE of SAMPLER:
DATE Signed: 3/2/2021

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

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COC 1 (updradient)

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- Phone: (770)384-6526 Fax:
- Requested Due Date:

Section B — Required Project Information:
- Report To: Becky Steever
- Copy To:
- Purchase Order #:
- Project Name: Yates Gypsum LF ~~Up Grad.~~
- Project #:

Section C — Invoice Information:
- Attention:
- Company Name:
- Address:
- Pace Quote:
- Pace Project Manager: kevin.herring@pacelabs.com,
- Pace Profile #: 10840

Regulatory Agency:

State / Location: GA

SAMPLE ID
One Character per box. (A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS

SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: TDS	Cl, F, SO4	App III/III/IV Metals	RAD 9315/8320	Residual Chlorine (Y/N)
	WT																x	x	x	x	
	WT																x	x	x	x	
FB-01	WT		3/2	1520				5	✓		✓						x	x	x	x	
GWA-2	WT		3/2	1510				5	✓		✓						x	x	x	x	
~~GWC-6R~~	WT																x	x	x	x	
~~GWC-6R~~	WT																x	x	x	x	
~~GWC-1R~~	WT																x	x	x	x	
~~GWC-2R~~	WT																x	x	x	x	
~~GWC-4R~~	WT																x	x	x	x	
~~GWC-8R~~	WT																x	x	x	x	

Residual Chlorine (Y/N): 42525214

PM 5.42

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
		3/2/21	1520		3.2.21	1520
		3.2.21	1738		3/4/21	1230

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER:

DATE Signed: 3/2/21

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CoC 3 AP2 DG

Section A
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Requested Due Date:

Section B
Required Project Information:
Report To: Becky Steever
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Project Name: Yates AP-2
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Regulatory Agency
State / Location: GA

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)
~~YGWA-1I~~	WT																					
~~YGWA-1D~~	WT																					
~~YGWA-2I~~	WT																					
~~YGWA-3I~~	WT																					
~~YGWA-6D~~	WT																					
~~TGWA-11S~~	WT																					
~~YGWA-30S~~	WT																					
YGWC-26S	WT		3/2	1400			5	1	1									X	X	X	X	
~~YGWC-28S~~	WT																	X	X	X	X	
~~TGWC-37S~~	WT																	X	X	X	X	
~~YGWC-40S~~	WT																	X	X	X	X	
~~YGWC-42S~~	WT																	X	X	X	X	

Residual Chlorine (Y/N): 9252524ST

pH: 5.38

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	3/2/21	1730	[signature]	3/2/21	1730	4.0	Y	N	Y

SAMPLER NAME AND SIGNATURE:
PRINT Name of SAMPLER: Katie Pepperman
SIGNATURE of SAMPLER: [signature]
DATE Signed: 3/2/21

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

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 4

COC 1 of 1

Section A
Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Marietta, GA 30114
Email:
Phone: (770)384-6526 Fax:
Requested Due Date:

Section B
Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates AMA
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)
1		WT																	x	x	x	x	
2		WT																	x	x	x	x	
3		WT																	x	x	x	x	
4	YGWA-4I	WT																	x	x	x	x	
5	~~YGWA-5I~~ YGWA-5I	WT		3/2	1405			8	5	1		1							x	x	x	x	pH: 5.63
6	YGWA-5D YGWA-5D	WT		3/2	1440			8	5	1		1							x	x	x	x	pH: 7.15
7	~~YGWA-17S~~ DUP-1	WT		3/2	-			8	5	1		1							x	x	x	x	
8	~~YGWA-18S~~	WT																	x	x	x	x	
9	~~YGWA-18I~~	WT																	x	x	x	x	
10	~~YGWA-20S~~	WT																	x	x	x	x	
11	~~YGWA-24I~~	WT																	x	x	x	x	
12	~~YGWA-33S~~	WT																	x	x	x	x	

92525335

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)
		3/2/2021	1600		3.2.21	1600				
		3-2-21	1730		3/2/21	1730	4.0	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Peter Argyrakis
SIGNATURE of SAMPLER:
DATE Signed: 03/02/2021

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Page: 2 of 4

COC 1 - 06

Section A
Required Client Information:

Company: Georgia Power
Address: 1070 Bridge Mill Ave
Acworth, GA 30114
Email:
Phone: (770)384-6526 Fax:
Requested Due Date:

Section B
Required Project Information:

Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates APWP Up Gradient
Project #:

Section C
Invoice Information:

Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)
1		WT																	X	X	X	X	pH
2		WT																	X	X	X	X	
3		WT																	X	X	X	X	
4	YGWA-47	WT		3/1	1210				5			/							X	X	X	X	
5	~~YGWC-50~~	WT																	X	X	X	X	pH 5.48
6	~~YGWC-44~~	WT																	X	X	X	X	
7	~~YGWC-45~~	WT																	X	X	X	X	
8	~~YGWC-45A~~	WT																	X	X	X	X	
9																							
10																							
11																							
12																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		03/02/2021	1530		3-2-21	1530				
		3-2-21	1730		3/2/21	1730	4.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Reiga Argyrakis

SIGNATURE of SAMPLER:

DATE Signed: 03/02/2021

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

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COC 1 - UG

Section A
Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Marietta, GA 30114
Email:
Phone: (770)384-6526 Fax
Requested Due Date:

Section B
Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates Ash Pond Upgradient
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS

Item #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: Y/N	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)
1	~~YGWA-4S~~	WT																	X	X	X	X	
2	~~YGWA-4I~~	WT																	X	X	X	X	
3	~~YGWA-4D~~	WT																	X	X	X	X	
4	~~YGWA-3S~~	WT																	X	X	X	X	
5	~~YGWA-3D~~	WT																	X	X	X	X	
6	YGWA-14S	WT	3/2	1120					5	✓		✓							X	X	X	X	pH 5.49
7	YGWA-30I	WT	3/2	1125					5	✓		✓							X	X	X	X	pH 5.78
8	~~YGWC-26S~~ FB-01	WT	3/2	1130					5	✓		✓							X	X	X	X	—
9	~~YGWC-26I~~ DUP-01	WT	3/2	—					5	✓		✓							X	X	X	X	—
10	~~YGWC-27S~~	WT																	X	X	X	X	
11	~~YGWC-27I~~	WT																	X	X	X	X	
12	~~YGWC-28S~~	WT																	X	X	X	X	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		3/2/21	1730		3/2/21	1730	4.0	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Katie Rapkievich
SIGNATURE of SAMPLER:
DATE Signed: 3/2/2021

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

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Page: 4 Of 4

COC 1 (updradient)

Section A — Required Client Information:

- Company: Georgia Power
- Address: 1070 Bridge Mill Ave
- n, GA 30114
- Phone: (770)384-6526 Fax:
- Requested Due Date:

Section B — Required Project Information:

- Report To: Becky Steever
- Copy To:
- Purchase Order #:
- Project Name: Yates ~~Gypsum LF~~ Up Grad.
- Project #:

Section C — Invoice Information:

- Attention:
- Company Name:
- Address:
- Pace Quote:
- Pace Project Manager: kevin.herring@pacelabs.com,
- Pace Profile #: 10840

Regulatory Agency:

State / Location: GA

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS	Cl, F, SO4	App III/III/V Metals	RAD 9315/9320	Residual Chlorine (Y/N)
	WT																	X	X	X	X	
	WT																	X	X	X	X	
FB-01	WT		3/2	1520				5	✓		✓							X	X	X	X	
GWA-2	WT		3/2	1510				5	✓		✓							X	X	X	X	PH 5.42
~~GWC-6R~~	WT																	X	X	X	X	
~~GWC-6R~~	WT																	X	X	X	X	
~~GWC-1R~~	WT																	X	X	X	X	
~~GWC-2R~~	WT																	X	X	X	X	
~~GWC-4R~~	WT																	X	X	X	X	
~~GWC-8R~~	WT																	X	X	X	X	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		3/2/21	1520		3.2.21	1520				
		3.2.21	1736		3/4/21	1730	4.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER: DATE Signed: 3/2/21

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

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

COC 3 AP2 DG

Section A
Required Client Information:

Company: Georgia Power
Address: 1070 Bridge Mill Ave
Ton, GA 30114
Email:
Phone: (770)384-6526 Fax:
Requested Due Date:

Section B
Required Project Information:

Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates AP-2
Project #:

Section C
Invoice Information:

Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com
Pace Profile #: 10640

Regulatory Agency:
State / Location: GA

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS	Cl, F, SO4	App ilu/V Metals	RAD 9315/9320	Residual Chlorine (Y/N)	9272546
~~YGWA-1I~~	WT																						
~~YGWA-4D~~	WT																						
~~YGWA-21~~	WT																						
~~YGWA-3L~~	WT																						
~~YGWA-6D~~	WT																						
~~YGWA-14S~~	WT																						
~~YGWA-30I~~	WT																						
YGWC-26S	WT		3/22	1400			5	1	1														pH: 5.38
~~YGWC-28I~~	WT																						
~~YGWC-27S~~	WT																						
~~YGWC-29I~~	WT																						
~~YGWC-29D~~	WT																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION
	[signature]	3/22	1732	[signature]	3/22/21	1730	4.0 Y N Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Katie Pyrkiewicz

SIGNATURE of SAMPLER: [signature]

DATE Signed: 3.22.21

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

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier
92525335	YGWA-5I	6010D	Calcium	2.6	mg/L	UB
		6020B	Barium	0.019	mg/L	UB
		300	Chloride	4.3	mg/L	UB
		300	Sulfate	2.3	mg/L	UB
	YGWA-5D	6010D	Calcium	1.6	mg/L	UB
		6020B	Barium	0.014	mg/L	UB
		300	Chloride	3.2	mg/L	UB
		300	Sulfate	2.6	mg/L	UB
	DUP-1E	6010D	Calcium	1.5	mg/L	UB
		6020B	Barium	0.014	mg/L	UB
		300	Chloride	3.0	mg/L	UB
		300	Sulfate	2.0	mg/L	UB
	YGWA-14S	6010D	Calcium	1.2	mg/L	UB
		6020B	Barium	0.0076	mg/L	UB
		300	Chloride	4.9	mg/L	UB
		300	Sulfate	6.0	mg/L	UB
		SM2540C	TDS	67.0	mg/L	J
	DUP-01G	6010D	Calcium	1.2	mg/L	UB
		6020B	Barium	0.0078	mg/L	UB
		300	Chloride	5.0	mg/L	UB
		300	Sulfate	6.1	mg/L	UB
		SM2540C	TDS	32.0	mg/L	J
	YGWA-17S	6010D	Calcium	2.5	mg/L	UB
		6020B	Barium	0.017	mg/L	UB
		6020B	Chromium	0.005	mg/L	UB
		300	Chloride	7.1	mg/L	UB
		300	Sulfate	5.2	mg/L	UB
	YGWA-18S	6010D	Calcium	1.0	mg/L	UB
		6020B	Barium	0.017	mg/L	UB
		6020B	Chromium	0.005	mg/L	UB
		6020B	Lithium	0.03	mg/L	UB
		300	Chloride	7.2	mg/L	UB
		300	Sulfate	1.0	mg/L	UB
	YGWA-18I	6010D	Calcium	5.2	mg/L	UB
		6020B	Barium	0.023	mg/L	UB
		6020B	Chromium	0.005	mg/L	UB
		6020B	Lithium	0.03	mg/L	UB
		300	Chloride	7.0	mg/L	UB
	YGWA-1D	6010D	Calcium	14.1	mg/L	UB
		6020B	Barium	0.0068	mg/L	UB
		6020B	Lithium	0.03	mg/L	UB
		300	Chloride	1.0	mg/L	UB
		300	Sulfate	9.0	mg/L	UB
		6010D	Calcium	1.8	mg/L	UB

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier
	YGWA-1I	6020B	Barium	0.0094	mg/L	UB
		6020B	Lithium	0.03	mg/L	UB
		300	Chloride	1.2	mg/L	UB
		300	Sulfate	4.4	mg/L	UB
	YGWA-2I	6010D	Calcium	25.6	mg/L	UB
		6020B	Barium	0.0050	mg/L	UB
		6020B	Lithium	0.03	mg/L	UB
		300	Chloride	1.0	mg/L	UB
		300	Sulfate	10.6	mg/L	UB
	YGWA-3I	6010D	Calcium	20.6	mg/L	UB
		6020B	Barium	0.0050	mg/L	UB
		6020B	Lithium	0.03	mg/L	UB
		300	Chloride	1.0	mg/L	UB
		300	Sulfate	9.6	mg/L	UBJ
	YGWA-3D	6010D	Calcium	29.8	mg/L	UB
		6020B	Barium	0.0064	mg/L	UB
		6020B	Lithium	0.03	mg/L	UB
		300	Chloride	1.1	mg/L	UB
		300	Sulfate	7.0	mg/L	UB
	YGWA-4I	6010D	Calcium	7.7	mg/L	UB
		6020B	Barium	0.014	mg/L	UB
		6020B	Chromium	0.005	mg/L	UB
		6020B	Lithium	0.03	mg/L	UB
		300	Chloride	4.1	mg/L	UB
		300	Sulfate	7.8	mg/L	UB
	YGWA-20S	6010D	Calcium	2.4	mg/L	UB
		6020B	Barium	0.015	mg/L	UB
		300	Chloride	2.7	mg/L	UB
	YGWA-30I	SM2540C	TDS	23.0	mg/L	J
92525214	No Qualifiers Added					
92525245	No Qualifiers Added					
92525346	DUP-02	300	Sulfate	88.8	mg/L	J

Abbreviations:
mg/L = milligrams per liter

Qualifiers:
UB = not detected due to blank contamina
J/UJ = Estimated

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

March 22, 2021

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

RE: Project: YATES
Pace Project No.: 92525346

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between March 02, 2021 and March 05, 2021. 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,

Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: YATES
Pace Project No.: 92525346

Pace Analytical Services Charlotte
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
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 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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: YATES
Pace Project No.: 92525346

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92525346001	**YGWC-26S**	Water	03/02/21 14:00	03/02/21 17:30
92525346002	**YGWC-28I**	Water	03/03/21 13:40	03/05/21 09:20
92525346003	**YGWC-29I**	Water	03/03/21 10:45	03/05/21 09:20
92525346004	**EB-01**	Water	03/03/21 16:25	03/05/21 09:20
92525346005	**DUP-02**	Water	03/03/21 00:00	03/05/21 09:20
92525346006	**YGWC-26I**	Water	03/03/21 09:15	03/05/21 09:20
92525346007	**YGWC-27S**	Water	03/03/21 14:40	03/05/21 09:20
92525346008	**YGWC-27I**	Water	03/03/21 15:40	03/05/21 09:20
92525346009	**YGWC-28S**	Water	03/03/21 11:55	03/05/21 09:20
92525346010	**EB-01**	Water	03/03/21 10:20	03/05/21 09:20

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES
Pace Project No.: 92525346

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92525346001	**YGWC-26S**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		SM 2450C-2011	JRS	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525346002	**YGWC-28I**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525346003	**YGWC-29I**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525346004	**EB-01**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525346005	**DUP-02**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525346006	**YGWC-26I**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525346007	**YGWC-27S**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525346008	**YGWC-27I**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525346009	**YGWC-28S**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525346010	**EB-01**	EPA 6010D	KH	1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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SAMPLE ANALYTE COUNT

Project: YATES
Pace Project No.: 92525346

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020B	CW1	12
		SM 2450C-2011	ALW	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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92525346

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525346001	**YGWC-26S**					
	Performed by	CUSTOMER			03/08/21 09:06	
	pH	5.38	Std. Units		03/08/21 09:06	
EPA 6010D	Calcium	12.9	mg/L	1.0	03/09/21 04:03	
EPA 6020B	Barium	0.031	mg/L	0.0050	03/05/21 19:12	
EPA 6020B	Beryllium	0.00016J	mg/L	0.00050	03/05/21 19:12	
EPA 6020B	Boron	0.57	mg/L	0.040	03/05/21 19:12	
EPA 6020B	Chromium	0.0010J	mg/L	0.0050	03/05/21 19:12	
EPA 6020B	Cobalt	0.0021J	mg/L	0.0050	03/05/21 19:12	
EPA 6020B	Lead	0.000056J	mg/L	0.0010	03/05/21 19:12	
SM 2450C-2011	Total Dissolved Solids	154	mg/L	10.0	03/05/21 11:05	
EPA 300.0 Rev 2.1 1993	Chloride	13.2	mg/L	1.0	03/07/21 02:24	
EPA 300.0 Rev 2.1 1993	Sulfate	92.7	mg/L	1.0	03/07/21 02:24	
92525346002	**YGWC-28I**					
	Performed by	CUSTOMER			03/08/21 09:06	
	pH	66.51	Std. Units		03/08/21 09:06	
EPA 6010D	Calcium	30.9	mg/L	1.0	03/10/21 04:02	
EPA 6020B	Barium	0.077	mg/L	0.0050	03/11/21 15:19	
EPA 6020B	Boron	1.8	mg/L	0.040	03/11/21 15:19	
EPA 6020B	Cadmium	0.00014J	mg/L	0.00050	03/11/21 15:19	
EPA 6020B	Lithium	0.0063J	mg/L	0.030	03/11/21 15:19	
EPA 6020B	Molybdenum	0.0011J	mg/L	0.010	03/11/21 15:19	
SM 2450C-2011	Total Dissolved Solids	184	mg/L	10.0	03/06/21 13:11	
EPA 300.0 Rev 2.1 1993	Chloride	14.6	mg/L	1.0	03/13/21 23:51	
EPA 300.0 Rev 2.1 1993	Fluoride	0.072J	mg/L	0.10	03/13/21 23:51	
EPA 300.0 Rev 2.1 1993	Sulfate	8.6	mg/L	1.0	03/13/21 23:51	
92525346003	**YGWC-29I**					
	Performed by	CUSTOMER			03/08/21 09:06	
	pH	6.27	Std. Units		03/08/21 09:06	
EPA 6010D	Calcium	9.5	mg/L	1.0	03/10/21 04:22	
EPA 6020B	Barium	0.059	mg/L	0.0050	03/11/21 15:38	
EPA 6020B	Boron	0.62	mg/L	0.040	03/11/21 15:38	
EPA 6020B	Cadmium	0.00029J	mg/L	0.00050	03/11/21 15:38	
EPA 6020B	Lead	0.00016J	mg/L	0.0010	03/11/21 15:38	
EPA 6020B	Lithium	0.0054J	mg/L	0.030	03/11/21 15:38	
SM 2450C-2011	Total Dissolved Solids	110	mg/L	10.0	03/06/21 13:11	
EPA 300.0 Rev 2.1 1993	Chloride	6.7	mg/L	1.0	03/14/21 00:06	
EPA 300.0 Rev 2.1 1993	Fluoride	0.056J	mg/L	0.10	03/14/21 00:06	
EPA 300.0 Rev 2.1 1993	Sulfate	26.6	mg/L	1.0	03/14/21 00:06	
92525346005	**DUP-02**					
EPA 6010D	Calcium	16.0	mg/L	1.0	03/10/21 04:31	
EPA 6020B	Barium	0.065	mg/L	0.0050	03/11/21 15:50	
EPA 6020B	Boron	0.69	mg/L	0.040	03/11/21 15:50	
EPA 6020B	Chromium	0.00072J	mg/L	0.0050	03/11/21 15:50	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92525346

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525346005	**DUP-02**					
EPA 6020B	Lithium	0.0078J	mg/L	0.030	03/11/21 15:50	
EPA 6020B	Selenium	0.0029J	mg/L	0.0050	03/11/21 15:50	
SM 2450C-2011	Total Dissolved Solids	216	mg/L	10.0	03/06/21 13:12	
EPA 300.0 Rev 2.1 1993	Chloride	16.6	mg/L	1.0	03/14/21 01:08	
EPA 300.0 Rev 2.1 1993	Sulfate	88.8	mg/L	1.0	03/14/21 01:08	M1
92525346006	**YGWC-26I**					
	Performed by	CUSTOMER			03/08/21 09:06	
	pH	5.93	Std. Units		03/08/21 09:06	
EPA 6010D	Calcium	16.1	mg/L	1.0	03/10/21 04:36	
EPA 6020B	Barium	0.064	mg/L	0.0050	03/11/21 15:56	
EPA 6020B	Boron	0.69	mg/L	0.040	03/11/21 15:56	
EPA 6020B	Lithium	0.0077J	mg/L	0.030	03/11/21 15:56	
EPA 6020B	Selenium	0.0034J	mg/L	0.0050	03/11/21 15:56	
SM 2450C-2011	Total Dissolved Solids	205	mg/L	10.0	03/06/21 13:12	
EPA 300.0 Rev 2.1 1993	Chloride	16.6	mg/L	1.0	03/14/21 01:55	
EPA 300.0 Rev 2.1 1993	Fluoride	0.050J	mg/L	0.10	03/14/21 01:55	
EPA 300.0 Rev 2.1 1993	Sulfate	89.3	mg/L	1.0	03/14/21 01:55	
92525346007	**YGWC-27S**					
	Performed by	CUSTOMER			03/08/21 09:06	
	pH	6.35	Std. Units		03/08/21 09:06	
EPA 6010D	Calcium	30.2	mg/L	1.0	03/10/21 04:50	
EPA 6020B	Barium	0.075	mg/L	0.0050	03/11/21 16:01	
EPA 6020B	Boron	1.2	mg/L	0.040	03/11/21 16:01	
EPA 6020B	Chromium	0.00058J	mg/L	0.0050	03/11/21 16:01	
EPA 6020B	Cobalt	0.0017J	mg/L	0.0050	03/11/21 16:01	
SM 2450C-2011	Total Dissolved Solids	178	mg/L	10.0	03/06/21 13:12	
EPA 300.0 Rev 2.1 1993	Chloride	4.0	mg/L	1.0	03/14/21 03:10	
EPA 300.0 Rev 2.1 1993	Sulfate	451	mg/L	11.0	03/14/21 05:13	
92525346008	**YGWC-27I**					
	Performed by	CUSTOMER			03/08/21 09:06	
	pH	6.43	Std. Units		03/08/21 09:06	
EPA 6010D	Calcium	25.7	mg/L	1.0	03/10/21 04:55	
EPA 6020B	Barium	0.080	mg/L	0.0050	03/11/21 16:07	
EPA 6020B	Beryllium	0.00013J	mg/L	0.00050	03/11/21 16:07	
EPA 6020B	Boron	2.0	mg/L	0.040	03/11/21 16:07	
EPA 6020B	Cobalt	0.0042J	mg/L	0.0050	03/11/21 16:07	
EPA 6020B	Lithium	0.0066J	mg/L	0.030	03/11/21 16:07	
EPA 6020B	Molybdenum	0.0017J	mg/L	0.010	03/11/21 16:07	
SM 2450C-2011	Total Dissolved Solids	173	mg/L	10.0	03/06/21 13:12	
EPA 300.0 Rev 2.1 1993	Chloride	13.0	mg/L	1.0	03/14/21 03:26	
EPA 300.0 Rev 2.1 1993	Fluoride	0.058J	mg/L	0.10	03/14/21 03:26	
EPA 300.0 Rev 2.1 1993	Sulfate	2.6	mg/L	1.0	03/14/21 03:26	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92525346

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525346009	**YGWC-28S**					
	Performed by	CUSTOMER			03/08/21 09:06	
	pH	6.61	Std. Units		03/08/21 09:06	
EPA 6010D	Calcium	28.4	mg/L	1.0	03/10/21 05:00	
EPA 6020B	Barium	0.25	mg/L	0.0050	03/11/21 16:13	
EPA 6020B	Boron	2.3	mg/L	0.040	03/11/21 16:13	
EPA 6020B	Cobalt	0.0010J	mg/L	0.0050	03/11/21 16:13	
EPA 6020B	Molybdenum	0.00083J	mg/L	0.010	03/11/21 16:13	
SM 2450C-2011	Total Dissolved Solids	217	mg/L	10.0	03/06/21 12:29	
EPA 300.0 Rev 2.1 1993	Chloride	18.0	mg/L	1.0	03/14/21 03:41	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	03/14/21 03:41	
EPA 300.0 Rev 2.1 1993	Sulfate	4.9	mg/L	1.0	03/14/21 03:41	

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525346

Sample: YGWC-26S **Lab ID: 92525346001** Collected: 03/02/21 14:00 Received: 03/02/21 17:30 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		03/08/21 09:06		
pH	**5.38**	Std. Units			1		03/08/21 09:06		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**12.9**	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 04:03	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	0.00028	1	03/04/21 11:29	03/05/21 19:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 19:12	7440-38-2	
Barium	**0.031**	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 19:12	7440-39-3	
Beryllium	**0.00016J**	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 19:12	7440-41-7	
Boron	**0.57**	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 19:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 19:12	7440-43-9	
Chromium	**0.0010J**	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 19:12	7440-47-3	
Cobalt	**0.0021J**	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 19:12	7440-48-4	
Lead	**0.000056J**	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 19:12	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 19:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 19:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 19:12	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**154**	mg/L	10.0	10.0	1		03/05/21 11:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**13.2**	mg/L	1.0	0.60	1		03/07/21 02:24	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/07/21 02:24	16984-48-8	
Sulfate	**92.7**	mg/L	1.0	0.50	1		03/07/21 02:24	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525346

Sample: YGWC-28I **Lab ID: 92525346002** Collected: 03/03/21 13:40 Received: 03/05/21 09:20 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		03/08/21 09:06		
pH	**66.51**	Std. Units			1		03/08/21 09:06		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**30.9**	mg/L	1.0	0.070	1	03/09/21 11:24	03/10/21 04:02	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	0.00028	1	03/09/21 12:48	03/11/21 15:19	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 12:48	03/11/21 15:19	7440-38-2	
Barium	**0.077**	mg/L	0.0050	0.00071	1	03/09/21 12:48	03/11/21 15:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 12:48	03/11/21 15:19	7440-41-7	
Boron	**1.8**	mg/L	0.040	0.0052	1	03/09/21 12:48	03/11/21 15:19	7440-42-8	
Cadmium	**0.00014J**	mg/L	0.00050	0.00012	1	03/09/21 12:48	03/11/21 15:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 12:48	03/11/21 15:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/09/21 12:48	03/11/21 15:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 12:48	03/11/21 15:19	7439-92-1	
Lithium	**0.0063J**	mg/L	0.030	0.00081	1	03/09/21 12:48	03/11/21 15:19	7439-93-2	
Molybdenum	**0.0011J**	mg/L	0.010	0.00069	1	03/09/21 12:48	03/11/21 15:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/09/21 12:48	03/11/21 15:19	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**184**	mg/L	10.0	10.0	1		03/06/21 13:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**14.6**	mg/L	1.0	0.60	1		03/13/21 23:51	16887-00-6	
Fluoride	**0.072J**	mg/L	0.10	0.050	1		03/13/21 23:51	16984-48-8	
Sulfate	**8.6**	mg/L	1.0	0.50	1		03/13/21 23:51	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525346

Sample: YGWC-29I **Lab ID: 92525346003** Collected: 03/03/21 10:45 Received: 03/05/21 09:20 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		03/08/21 09:06		
pH	**6.27**	Std. Units			1		03/08/21 09:06		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**9.5**	mg/L	1.0	0.070	1	03/09/21 11:24	03/10/21 04:22	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	0.00028	1	03/09/21 12:48	03/11/21 15:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 12:48	03/11/21 15:38	7440-38-2	
Barium	**0.059**	mg/L	0.0050	0.00071	1	03/09/21 12:48	03/11/21 15:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 12:48	03/11/21 15:38	7440-41-7	
Boron	**0.62**	mg/L	0.040	0.0052	1	03/09/21 12:48	03/11/21 15:38	7440-42-8	
Cadmium	**0.00029J**	mg/L	0.00050	0.00012	1	03/09/21 12:48	03/11/21 15:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 12:48	03/11/21 15:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/09/21 12:48	03/11/21 15:38	7440-48-4	
Lead	**0.00016J**	mg/L	0.0010	0.000036	1	03/09/21 12:48	03/11/21 15:38	7439-92-1	
Lithium	**0.0054J**	mg/L	0.030	0.00081	1	03/09/21 12:48	03/11/21 15:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 12:48	03/11/21 15:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/09/21 12:48	03/11/21 15:38	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**110**	mg/L	10.0	10.0	1		03/06/21 13:11		
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		03/14/21 00:06	16887-00-6	
Fluoride	**0.056J**	mg/L	0.10	0.050	1		03/14/21 00:06	16984-48-8	
Sulfate	**26.6**	mg/L	1.0	0.50	1		03/14/21 00:06	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525346

Sample: EB-01 **Lab ID: 92525346004** Collected: 03/03/21 16:25 Received: 03/05/21 09:20 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	0.070	1	03/09/21 11:24	03/10/21 04:26	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	0.00028	1	03/09/21 12:48	03/11/21 15:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 12:48	03/11/21 15:44	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	03/09/21 12:48	03/11/21 15:44	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 12:48	03/11/21 15:44	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/09/21 12:48	03/11/21 15:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 12:48	03/11/21 15:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 12:48	03/11/21 15:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/09/21 12:48	03/11/21 15:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 12:48	03/11/21 15:44	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/09/21 12:48	03/11/21 15:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 12:48	03/11/21 15:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/09/21 12:48	03/11/21 15:44	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/06/21 13:12		
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		03/14/21 00:22	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/14/21 00:22	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/14/21 00:22	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525346

Sample: DUP-02 **Lab ID: 92525346005** Collected: 03/03/21 00:00 Received: 03/05/21 09:20 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	**16.0**	mg/L	1.0	0.070	1	03/09/21 11:24	03/10/21 04:31	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	0.00028	1	03/09/21 12:48	03/11/21 15:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 12:48	03/11/21 15:50	7440-38-2	
Barium	**0.065**	mg/L	0.0050	0.00071	1	03/09/21 12:48	03/11/21 15:50	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 12:48	03/11/21 15:50	7440-41-7	
Boron	**0.69**	mg/L	0.040	0.0052	1	03/09/21 12:48	03/11/21 15:50	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 12:48	03/11/21 15:50	7440-43-9	
Chromium	**0.00072J**	mg/L	0.0050	0.00055	1	03/09/21 12:48	03/11/21 15:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/09/21 12:48	03/11/21 15:50	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 12:48	03/11/21 15:50	7439-92-1	
Lithium	**0.0078J**	mg/L	0.030	0.00081	1	03/09/21 12:48	03/11/21 15:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 12:48	03/11/21 15:50	7439-98-7	
Selenium	**0.0029J**	mg/L	0.0050	0.0016	1	03/09/21 12:48	03/11/21 15:50	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**216**	mg/L	10.0	10.0	1		03/06/21 13:12		
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		03/14/21 01:08	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/14/21 01:08	16984-48-8	
Sulfate	**88.8**	mg/L	1.0	0.50	1		03/14/21 01:08	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525346

Sample: YGWC-26I **Lab ID: 92525346006** Collected: 03/03/21 09:15 Received: 03/05/21 09:20 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		03/08/21 09:06		
pH	**5.93**	Std. Units			1		03/08/21 09:06		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**16.1**	mg/L	1.0	0.070	1	03/09/21 11:24	03/10/21 04:36	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	0.00028	1	03/09/21 12:48	03/11/21 15:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 12:48	03/11/21 15:56	7440-38-2	
Barium	**0.064**	mg/L	0.0050	0.00071	1	03/09/21 12:48	03/11/21 15:56	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 12:48	03/11/21 15:56	7440-41-7	
Boron	**0.69**	mg/L	0.040	0.0052	1	03/09/21 12:48	03/11/21 15:56	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 12:48	03/11/21 15:56	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 12:48	03/11/21 15:56	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/09/21 12:48	03/11/21 15:56	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 12:48	03/11/21 15:56	7439-92-1	
Lithium	**0.0077J**	mg/L	0.030	0.00081	1	03/09/21 12:48	03/11/21 15:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 12:48	03/11/21 15:56	7439-98-7	
Selenium	**0.0034J**	mg/L	0.0050	0.0016	1	03/09/21 12:48	03/11/21 15:56	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**205**	mg/L	10.0	10.0	1		03/06/21 13:12		
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		03/14/21 01:55	16887-00-6	
Fluoride	**0.050J**	mg/L	0.10	0.050	1		03/14/21 01:55	16984-48-8	
Sulfate	**89.3**	mg/L	1.0	0.50	1		03/14/21 01:55	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525346

Sample: YGWC-27S **Lab ID: 92525346007** Collected: 03/03/21 14:40 Received: 03/05/21 09:20 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		03/08/21 09:06		
pH	**6.35**	Std. Units			1		03/08/21 09:06		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**30.2**	mg/L	1.0	0.070	1	03/09/21 11:24	03/10/21 04:50	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	0.00028	1	03/09/21 12:48	03/11/21 16:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 12:48	03/11/21 16:01	7440-38-2	
Barium	**0.075**	mg/L	0.0050	0.00071	1	03/09/21 12:48	03/11/21 16:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 12:48	03/11/21 16:01	7440-41-7	
Boron	**1.2**	mg/L	0.040	0.0052	1	03/09/21 12:48	03/11/21 16:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 12:48	03/11/21 16:01	7440-43-9	
Chromium	**0.00058J**	mg/L	0.0050	0.00055	1	03/09/21 12:48	03/11/21 16:01	7440-47-3	
Cobalt	**0.0017J**	mg/L	0.0050	0.00038	1	03/09/21 12:48	03/11/21 16:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 12:48	03/11/21 16:01	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/09/21 12:48	03/11/21 16:01	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 12:48	03/11/21 16:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/09/21 12:48	03/11/21 16:01	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**178**	mg/L	10.0	10.0	1		03/06/21 13:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.0**	mg/L	1.0	0.60	1		03/14/21 03:10	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/14/21 03:10	16984-48-8	
Sulfate	**451**	mg/L	11.0	5.5	11		03/14/21 05:13	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525346

Sample: YGWC-27I **Lab ID: 92525346008** Collected: 03/03/21 15:40 Received: 03/05/21 09:20 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		03/08/21 09:06		
pH	**6.43**	Std. Units			1		03/08/21 09:06		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**25.7**	mg/L	1.0	0.070	1	03/09/21 11:24	03/10/21 04:55	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	0.00028	1	03/09/21 12:48	03/11/21 16:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 12:48	03/11/21 16:07	7440-38-2	
Barium	**0.080**	mg/L	0.0050	0.00071	1	03/09/21 12:48	03/11/21 16:07	7440-39-3	
Beryllium	**0.00013J**	mg/L	0.00050	0.000046	1	03/09/21 12:48	03/11/21 16:07	7440-41-7	
Boron	**2.0**	mg/L	0.040	0.0052	1	03/09/21 12:48	03/11/21 16:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 12:48	03/11/21 16:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 12:48	03/11/21 16:07	7440-47-3	
Cobalt	**0.0042J**	mg/L	0.0050	0.00038	1	03/09/21 12:48	03/11/21 16:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 12:48	03/11/21 16:07	7439-92-1	
Lithium	**0.0066J**	mg/L	0.030	0.00081	1	03/09/21 12:48	03/11/21 16:07	7439-93-2	
Molybdenum	**0.0017J**	mg/L	0.010	0.00069	1	03/09/21 12:48	03/11/21 16:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/09/21 12:48	03/11/21 16:07	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**173**	mg/L	10.0	10.0	1		03/06/21 13:12		
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		03/14/21 03:26	16887-00-6	
Fluoride	**0.058J**	mg/L	0.10	0.050	1		03/14/21 03:26	16984-48-8	
Sulfate	**2.6**	mg/L	1.0	0.50	1		03/14/21 03:26	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525346

Sample: YGWC-28S **Lab ID: 92525346009** Collected: 03/03/21 11:55 Received: 03/05/21 09:20 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		03/08/21 09:06		
pH	**6.61**	Std. Units			1		03/08/21 09:06		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**28.4**	mg/L	1.0	0.070	1	03/09/21 11:24	03/10/21 05:00	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	0.00028	1	03/09/21 12:48	03/11/21 16:13	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 12:48	03/11/21 16:13	7440-38-2	
Barium	**0.25**	mg/L	0.0050	0.00071	1	03/09/21 12:48	03/11/21 16:13	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 12:48	03/11/21 16:13	7440-41-7	
Boron	**2.3**	mg/L	0.040	0.0052	1	03/09/21 12:48	03/11/21 16:13	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 12:48	03/11/21 16:13	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 12:48	03/11/21 16:13	7440-47-3	
Cobalt	**0.0010J**	mg/L	0.0050	0.00038	1	03/09/21 12:48	03/11/21 16:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 12:48	03/11/21 16:13	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/09/21 12:48	03/11/21 16:13	7439-93-2	
Molybdenum	**0.00083J**	mg/L	0.010	0.00069	1	03/09/21 12:48	03/11/21 16:13	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/09/21 12:48	03/11/21 16:13	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**217**	mg/L	10.0	10.0	1		03/06/21 12:29		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**18.0**	mg/L	1.0	0.60	1		03/14/21 03:41	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	0.050	1		03/14/21 03:41	16984-48-8	
Sulfate	**4.9**	mg/L	1.0	0.50	1		03/14/21 03:41	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525346

Sample: EB-01 **Lab ID: 92525346010** Collected: 03/03/21 10:20 Received: 03/05/21 09:20 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	0.070	1	03/09/21 11:24	03/10/21 05:05	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	0.00028	1	03/09/21 12:48	03/11/21 16:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/09/21 12:48	03/11/21 16:18	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	03/09/21 12:48	03/11/21 16:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/09/21 12:48	03/11/21 16:18	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/09/21 12:48	03/11/21 16:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/09/21 12:48	03/11/21 16:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/09/21 12:48	03/11/21 16:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/09/21 12:48	03/11/21 16:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/09/21 12:48	03/11/21 16:18	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/09/21 12:48	03/11/21 16:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/09/21 12:48	03/11/21 16:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/09/21 12:48	03/11/21 16:18	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/06/21 12:29		
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		03/14/21 12:36	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/14/21 12:36	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/14/21 12:36	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525346

QC Batch: 604223
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525346001

METHOD BLANK: 3183140 Matrix: Water
Associated Lab Samples: 92525346001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/09/21 01:57	

LABORATORY CONTROL SAMPLE: 3183141

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: 3183142 3183143

Parameter	Units	92525335001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	2.6	1	1	3.6	3.5	105	94	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

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525346

QC Batch: 605191
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525346002, 92525346003, 92525346004, 92525346005, 92525346006, 92525346007, 92525346008, 92525346009, 92525346010

METHOD BLANK: 3188288 Matrix: Water
Associated Lab Samples: 92525346002, 92525346003, 92525346004, 92525346005, 92525346006, 92525346007, 92525346008, 92525346009, 92525346010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/10/21 03:52	

LABORATORY CONTROL SAMPLE: 3188289

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3188290 3188291

Parameter	Units	92525346002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	30.9	1	1	32.1	31.3	120	44	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525346

QC Batch: 604224
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92525346001

METHOD BLANK: 3183148 Matrix: Water
Associated Lab Samples: 92525346001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	03/05/21 16:31	
Arsenic	mg/L	ND	0.0050	0.00078	03/05/21 16:31	
Barium	mg/L	ND	0.0050	0.00071	03/05/21 16:31	
Beryllium	mg/L	ND	0.00050	0.000046	03/05/21 16:31	
Boron	mg/L	ND	0.040	0.0052	03/05/21 16:31	
Cadmium	mg/L	ND	0.00050	0.00012	03/05/21 16:31	
Chromium	mg/L	ND	0.0050	0.00055	03/05/21 16:31	
Cobalt	mg/L	ND	0.0050	0.00038	03/05/21 16:31	
Lead	mg/L	ND	0.0010	0.000036	03/05/21 16:31	
Lithium	mg/L	ND	0.030	0.00081	03/05/21 16:31	
Molybdenum	mg/L	ND	0.010	0.00069	03/05/21 16:31	
Selenium	mg/L	ND	0.0050	0.0016	03/05/21 16:31	

LABORATORY CONTROL SAMPLE: 3183149

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	0.096	96	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	0.91	91	80-120	
Cadmium	mg/L	0.1	0.096	96	80-120	
Chromium	mg/L	0.1	0.096	96	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3183150 3183151

Parameter	Units	92525335002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	105	106	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.096	0.093	96	93	75-125	3	20	
Barium	mg/L	0.014	0.1	0.1	0.11	0.11	96	99	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.095	0.093	95	93	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525346

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3183150 3183151

Parameter	Units	92525335002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	0.0068J	1	1	0.96	0.96	96	96	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.098	99	98	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	2	20	
Lead	mg/L	0.000051J	0.1	0.1	0.098	0.095	98	95	75-125	3	20	
Lithium	mg/L	0.0018J	0.1	0.1	0.10	0.097	98	95	75-125	3	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.094	0.092	94	92	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525346

QC Batch: 605211
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525346002, 92525346003, 92525346004, 92525346005, 92525346006, 92525346007, 92525346008, 92525346009, 92525346010

METHOD BLANK: 3188368 Matrix: Water
Associated Lab Samples: 92525346002, 92525346003, 92525346004, 92525346005, 92525346006, 92525346007, 92525346008, 92525346009, 92525346010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00043J	0.0030	0.00028	03/11/21 14:28	
Arsenic	mg/L	ND	0.0050	0.00078	03/11/21 14:28	
Barium	mg/L	ND	0.0050	0.00071	03/11/21 14:28	
Beryllium	mg/L	ND	0.00050	0.000046	03/11/21 14:28	
Boron	mg/L	ND	0.040	0.0052	03/11/21 14:28	
Cadmium	mg/L	ND	0.00050	0.00012	03/11/21 14:28	
Chromium	mg/L	ND	0.0050	0.00055	03/11/21 14:28	
Cobalt	mg/L	ND	0.0050	0.00038	03/11/21 14:28	
Lead	mg/L	ND	0.0010	0.000036	03/11/21 14:28	
Lithium	mg/L	ND	0.030	0.00081	03/11/21 14:28	
Molybdenum	mg/L	ND	0.010	0.00069	03/11/21 14:28	
Selenium	mg/L	ND	0.0050	0.0016	03/11/21 14:28	

LABORATORY CONTROL SAMPLE: 3188369

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	0.093	93	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.094	94	80-120	
Boron	mg/L	1	0.98	98	80-120	
Cadmium	mg/L	0.1	0.097	97	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	0.097	97	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3188370 3188371

Parameter	Units	92525662001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.012	0.1	0.1	0.11	0.11	97	101	75-125	4	20	
Arsenic	mg/L	0.13	0.1	0.1	0.23	0.23	92	93	75-125	0	20	
Barium	mg/L	0.12	0.1	0.1	0.26	0.27	138	146	75-125	3	20	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525346

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3188370 3188371

Parameter	Units	92525662001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium	mg/L	ND	0.1	0.1	0.078	0.080	78	80	75-125	2	20	
Boron	mg/L	1.1	1	1	1.9	1.9	79	85	75-125	3	20	
Cadmium	mg/L	0.00021J	0.1	0.1	0.093	0.094	93	94	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.090	0.092	89	92	75-125	3	20	
Cobalt	mg/L	0.0030J	0.1	0.1	0.092	0.094	89	91	75-125	2	20	
Lead	mg/L	0.000081J	0.1	0.1	0.088	0.091	87	91	75-125	4	20	
Lithium	mg/L	0.19	0.1	0.1	0.26	0.27	73	77	75-125	2	20	M1
Molybdenum	mg/L	0.035	0.1	0.1	0.12	0.13	89	91	75-125	2	20	
Selenium	mg/L	0.086	0.1	0.1	0.18	0.18	89	97	75-125	4	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525346

QC Batch: 604527
QC Batch Method: SM 2450C-2011
Analysis Method: SM 2450C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525346001

METHOD BLANK: 3184654 Matrix: Water
Associated Lab Samples: 92525346001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/05/21 11:03	

LABORATORY CONTROL SAMPLE: 3184655

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	375	94	90-111	

SAMPLE DUPLICATE: 3184656

Parameter	Units	92525799001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2090	1960	6	10	

SAMPLE DUPLICATE: 3184657

Parameter	Units	92525341004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	167	152	9	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525346

QC Batch: 604764 Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525346002, 92525346003, 92525346004, 92525346005, 92525346006, 92525346007, 92525346008

METHOD BLANK: 3186295 Matrix: Water
Associated Lab Samples: 92525346002, 92525346003, 92525346004, 92525346005, 92525346006, 92525346007, 92525346008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/06/21 13:06	

LABORATORY CONTROL SAMPLE: 3186296

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	368	92	90-111	

SAMPLE DUPLICATE: 3186298

Parameter	Units	92525335021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	102	101	1	10	

SAMPLE DUPLICATE: 3186336

Parameter	Units	92525919008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	267	283	6	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525346

QC Batch: 604765
QC Batch Method: SM 2450C-2011
Analysis Method: SM 2450C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525346009, 92525346010

METHOD BLANK: 3186310 Matrix: Water
Associated Lab Samples: 92525346009, 92525346010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/06/21 12:29	

LABORATORY CONTROL SAMPLE: 3186311

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	371	93	90-111	

SAMPLE DUPLICATE: 3186312

Parameter	Units	92525346009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	217	220	1	10	

SAMPLE DUPLICATE: 3186313

Parameter	Units	92525824003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	45.0	61.0	30	10	D6

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525346

QC Batch: 604544
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92525346001

METHOD BLANK: 3184710 Matrix: Water
Associated Lab Samples: 92525346001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/06/21 20:08	
Fluoride	mg/L	ND	0.10	0.050	03/06/21 20:08	
Sulfate	mg/L	ND	1.0	0.50	03/06/21 20:08	

LABORATORY CONTROL SAMPLE: 3184711

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	2.5	98	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3184712 3184713

Parameter	Units	92525335001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.3	50	50	53.4	53.9	98	99	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	104	105	90-110	1	10	
Sulfate	mg/L	2.3	50	50	51.8	52.4	99	100	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3184714 3184715

Parameter	Units	92525341001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.5	50	50	54.6	54.8	98	98	90-110	0	10	
Fluoride	mg/L	0.18	2.5	2.5	3.3	3.3	124	125	90-110	1	10	M1
Sulfate	mg/L	94.2	50	50	135	135	81	82	90-110	0	10	M1

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REPORT OF LABORATORY ANALYSIS

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(770)734-4200

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525346

QC Batch: 606456
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92525346002, 92525346003, 92525346004, 92525346005, 92525346006, 92525346007, 92525346008, 92525346009, 92525346010

METHOD BLANK: 3195140 Matrix: Water
Associated Lab Samples: 92525346002, 92525346003, 92525346004, 92525346005, 92525346006, 92525346007, 92525346008, 92525346009, 92525346010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/13/21 20:29	
Fluoride	mg/L	ND	0.10	0.050	03/13/21 20:29	
Sulfate	mg/L	ND	1.0	0.50	03/13/21 20:29	

LABORATORY CONTROL SAMPLE: 3195141

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.5	97	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	51.4	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195142 3195143

Parameter	Units	92525335019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	0.99J	50	50	52.8	52.3	104	103	90-110	1	10	
Fluoride	mg/L	0.10	2.5	2.5	2.7	2.7	106	104	90-110	2	10	
Sulfate	mg/L	9.6	50	50	65.5	64.7	112	110	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195144 3195145

Parameter	Units	92525346005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	16.6	50	50	66.4	68.7	100	104	90-110	3	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	98	103	90-110	5	10	
Sulfate	mg/L	88.8	50	50	115	117	53	56	90-110	1	10	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: YATES
Pace Project No.: 92525346

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.

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.
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.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES
Pace Project No.: 92525346

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525346001	**YGWC-26S**				
92525346002	**YGWC-28I**				
92525346003	**YGWC-29I**				
92525346006	**YGWC-26I**				
92525346007	**YGWC-27S**				
92525346008	**YGWC-27I**				
92525346009	**YGWC-28S**				
92525346001	**YGWC-26S**	EPA 3010A	604223	EPA 6010D	604309
92525346002	**YGWC-28I**	EPA 3010A	605191	EPA 6010D	605246
92525346003	**YGWC-29I**	EPA 3010A	605191	EPA 6010D	605246
92525346004	**EB-01**	EPA 3010A	605191	EPA 6010D	605246
92525346005	**DUP-02**	EPA 3010A	605191	EPA 6010D	605246
92525346006	**YGWC-26I**	EPA 3010A	605191	EPA 6010D	605246
92525346007	**YGWC-27S**	EPA 3010A	605191	EPA 6010D	605246
92525346008	**YGWC-27I**	EPA 3010A	605191	EPA 6010D	605246
92525346009	**YGWC-28S**	EPA 3010A	605191	EPA 6010D	605246
92525346010	**EB-01**	EPA 3010A	605191	EPA 6010D	605246
92525346001	**YGWC-26S**	EPA 3005A	604224	EPA 6020B	604329
92525346002	**YGWC-28I**	EPA 3005A	605211	EPA 6020B	605315
92525346003	**YGWC-29I**	EPA 3005A	605211	EPA 6020B	605315
92525346004	**EB-01**	EPA 3005A	605211	EPA 6020B	605315
92525346005	**DUP-02**	EPA 3005A	605211	EPA 6020B	605315
92525346006	**YGWC-26I**	EPA 3005A	605211	EPA 6020B	605315
92525346007	**YGWC-27S**	EPA 3005A	605211	EPA 6020B	605315
92525346008	**YGWC-27I**	EPA 3005A	605211	EPA 6020B	605315
92525346009	**YGWC-28S**	EPA 3005A	605211	EPA 6020B	605315
92525346010	**EB-01**	EPA 3005A	605211	EPA 6020B	605315
92525346001	**YGWC-26S**	SM 2450C-2011	604527		
92525346002	**YGWC-28I**	SM 2450C-2011	604764		
92525346003	**YGWC-29I**	SM 2450C-2011	604764		
92525346004	**EB-01**	SM 2450C-2011	604764		
92525346005	**DUP-02**	SM 2450C-2011	604764		
92525346006	**YGWC-26I**	SM 2450C-2011	604764		
92525346007	**YGWC-27S**	SM 2450C-2011	604764		
92525346008	**YGWC-27I**	SM 2450C-2011	604764		
92525346009	**YGWC-28S**	SM 2450C-2011	604765		
92525346010	**EB-01**	SM 2450C-2011	604765		
92525346001	**YGWC-26S**	EPA 300.0 Rev 2.1 1993	604544		
92525346002	**YGWC-28I**	EPA 300.0 Rev 2.1 1993	606456		
92525346003	**YGWC-29I**	EPA 300.0 Rev 2.1 1993	606456		
92525346004	**EB-01**	EPA 300.0 Rev 2.1 1993	606456		
92525346005	**DUP-02**	EPA 300.0 Rev 2.1 1993	606456		
92525346006	**YGWC-26I**	EPA 300.0 Rev 2.1 1993	606456		
92525346007	**YGWC-27S**	EPA 300.0 Rev 2.1 1993	606456		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES
Pace Project No.: 92525346

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525346008	**YGWC-27I**	EPA 300.0 Rev 2.1 1993	606456		
92525346009	**YGWC-28S**	EPA 300.0 Rev 2.1 1993	606456		
92525346010	**EB-01**	EPA 300.0 Rev 2.1 1993	606456		

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia power

Project #: WO# : 92525346

92525346

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Pace ☐ Other: ☑ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: MT 3/31/21

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other

Biological Tissue Frozen? ☐ Yes ☑ No ☐ N/A

Thermometer: ☐ IR Gun ID: 230 ☑ Wet ☐ Blue ☐ None

Type of Ice:

Cooler Temp: 4.0 **Correction Factor:** Add/Subtract (°C) +0

Cooler Temp Corrected (°C): 4.0

Temp should be above freezing to 6°C

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

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

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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.

Page : 1 Of 1

CoC 3 AP2 OG

Section A – Required Client Information		Section B – Required Project Information		Section C – Invoice Information	
Company:	Georgia Power	Report To:	Becky Steever	Attention:	
Address:	1070 Bridge Mill Ave	Copy To:		Company Name:	
	Canton, GA 30114			Address:	
Email:		Purchase Order #:		Pace Quote:	
Phone:	(770)384-6526 Fax	Project Name:	Yates AP-2	Pace Project Manager:	kevin.herring@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	10640

Regulatory Agency:

State / Location: GA

SAMPLE ID – One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	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	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	9252346
1	~~YGWA-1I~~	WT																	~~X~~	~~X~~	~~X~~	~~X~~		
2	~~YGWA-1D~~	WT																	~~X~~	~~X~~	~~X~~	~~X~~		
3	~~YGWA-2I~~	WT																	~~X~~	~~X~~	~~X~~	~~X~~		
4	~~YGWA-3I~~	WT																	~~X~~	~~X~~	~~X~~	~~X~~		
5	~~YGWA-5D~~	WT																	~~X~~	~~X~~	~~X~~	~~X~~		
6	~~TGWA-11S~~	WT																	~~X~~	~~X~~	~~X~~	~~X~~		
7	~~YGWA-30I~~	WT																	~~X~~	~~X~~	~~X~~	~~X~~		
8	YGWC-26S	WT		3/22	1400			5		/		/							X	X	X	X		pH: 5.38
9	~~YGWB-23I~~	WT																	~~X~~	~~X~~	~~X~~	~~X~~		
10	~~YGWC-27S~~	WT																	~~X~~	~~X~~	~~X~~	~~X~~		
11	~~YGWC-24I~~	WT																	~~X~~	~~X~~	~~X~~	~~X~~		
12	~~YGWC-25I~~	WT																	~~X~~	~~X~~	~~X~~	~~X~~		

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)
	[signature]	3/22	1730	[signature] /Pace	3/22/21	1730	4.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Katie Pupkiewicz

SIGNATURE of SAMPLER: [signature] DATE Signed: 3.22.21

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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.

Page : 1 Of 2

COC 13

Section A — Required Client Information:	Section B — Required Project Information:	Section C — Invoice Information:
Company: Georgia Power	Report To: Becky Steever	Attention:
Address: 1070 Bridge Mill Ave	Copy To:	Company Name:
Canton, GA 30114		Address:
Email:	Purchase Order #:	Pace Quote:
Phone: (770) 384-6526 Fax:	Project Name: Yates AP-2	Pace Project Manager: kevin.herring@pacelabs.com,
Requested Due Date:	Project #:	Pace Profile #: 10840

Regulatory Agency:

State / Location: GA

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID: One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
3	YGWC-28	WT		3/24	1340				5	/		/							x	x	x	x		pH 6.51
4	YGWC-29I	WT		3/21	1045				5	/		/							x	x	x	x		pH 6.27
5		WT																	x	x	x	x		
6		WT																	x	x	x	x		
7		WT																	x	x	x	x		
8		WT																	x	x	x	x		
9		WT																	x	x	x	x		
10		WT																	x	x	x	x		
11																								
12																								
13																								
14																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature]	3-4-21	1045	[signature]	3/5/21	0920	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Katie Pepkiewicz

SIGNATURE of SAMPLER: [signature] DATE Signed: 3.3.21

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

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 2 Of 2

COC-3

Section A — Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Canton, GA 30114
Email:
Phone: (770)384-6526 Fax:
Requested Due Date:

Section B — Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates AP-2
Project #:

Section C — Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Regulatory Agency
State / Location: GA

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS	Cl, F, SO4	App III/V Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~YGWA-1I~~	WT																	X	X	X	X		
2	~~YGWC-1S~~	WT																	X	X	X	X		
3	~~YGWC-2I~~	WT																	X	X	X	X		
4	~~YGWC-2S~~	WT																	X	X	X	X		
5	~~YGWC-3D~~	WT																	X	X	X	X		
6	~~YGWA-3I~~	WT																	X	X	X	X		
7	YGWA-3DI EB-01	WT	3-3-21	1625					5	/		/							X	X	X	X		
8	~~YGWC-13S~~ DUP-02	WT	3-3-21	—					5	/		/							X	X	X	X		
9	YGWC-26I	WT	3-3-21	915					5	/		/							X	X	X	X	pH: 5.93	
10	YGWC-27S	WT	3-3-21	~~1645~~ 1648			1440		5	/		/							X	X	X	X	pH: 6.35	
11	YGWC-27I	WT	3-3-21	1548					5	/		/							X	X	X	X	pH: 6.43	
12	YGWC-28S	WT	3-3-21	1555					5	/		/							X	X	X	X	pH: 6.16	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature]	3.4.21	1045	[signature]	3/5/21	0920	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kate Pipkiewicz

SIGNATURE of SAMPLER: [signature] DATE Signed: 3-3-21

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

March 26, 2021

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

RE: Project: YATES
Pace Project No.: 92525335

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between March 02, 2021 and March 05, 2021. 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,

Tyler Forney for
Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: YATES
Pace Project No.: 92525335

Pace Analytical Services Charlotte
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
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 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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: YATES
Pace Project No.: 92525335

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92525335001	**YGWA-5I**	Water	03/02/21 14:05	03/02/21 17:30
92525335002	**YGWA-5D**	Water	03/02/21 14:40	03/02/21 17:30
92525335003	**DUP-1**	Water	03/02/21 00:00	03/02/21 17:30
92525335005	**YGWA-14S**	Water	03/02/21 11:20	03/02/21 17:30
92525335006	**YGWA-30I**	Water	03/01/21 16:25	03/02/21 17:30
92525335007	**FB-01**	Water	03/02/21 11:30	03/02/21 17:30
92525335008	**DUP-01**	Water	03/02/21 00:00	03/02/21 17:30
92525335009	**FB-01**	Water	03/02/21 15:20	03/02/21 17:30
92525335011	**YGWA-40**	Water	03/04/21 10:10	03/05/21 09:20
92525335012	**YGWA-17S**	Water	03/03/21 12:20	03/05/21 09:20
92525335013	**YGWA-18S**	Water	03/03/21 13:50	03/05/21 09:20
92525335014	**YGWA-18I**	Water	03/03/21 15:00	03/05/21 09:20
92525335015	**YGWA-39**	Water	03/04/21 10:20	03/05/21 09:20
92525335016	**YGWA-1D (030321)**	Water	03/03/21 14:25	03/05/21 09:20
92525335017	**YGWA-1I (030321)**	Water	03/03/21 13:35	03/05/21 09:20
92525335018	**YGWA-2I (030321)**	Water	03/03/21 11:45	03/05/21 09:20
92525335019	**YGWA-3I (030321)**	Water	03/03/21 17:00	03/05/21 09:20
92525335020	**YGWA-3D (030321)**	Water	03/03/21 16:00	03/05/21 09:20
92525335021	**EB-02 (03032021)**	Water	03/03/21 17:15	03/05/21 09:20
92525335022	**YGWA-4I**	Water	03/03/21 10:35	03/05/21 09:20
92525335023	**YGWA-20S**	Water	03/03/21 09:40	03/05/21 09:20
92525335024	**YGWA-21I**	Water	03/04/21 09:35	03/05/21 09:20

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES
Pace Project No.: 92525335

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92525335001	**YGWA-5I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525335002	**YGWA-5D**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525335003	**DUP-1**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525335005	**YGWA-14S**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525335006	**YGWA-30I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525335007	**FB-01**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	JRS	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525335008	**DUP-01**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	JRS	1
		EPA 300.0 Rev 2.1 1993	JLH	3
92525335009	**FB-01**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	JRS	1

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES
Pace Project No.: 92525335

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	JLH	3
92525335011	**YGWA-40**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525335012	**YGWA-17S**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525335013	**YGWA-18S**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525335014	**YGWA-18I**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525335015	**YGWA-39**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525335016	**YGWA-1D (030321)**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525335017	**YGWA-1I (030321)**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525335018	**YGWA-2I (030321)**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES
Pace Project No.: 92525335

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	CDC	3
92525335019	**YGWA-3I (030321)**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525335020	**YGWA-3D (030321)**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525335021	**EB-02 (03032021)**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525335022	**YGWA-4I**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525335023	**YGWA-20S**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92525335024	**YGWA-21I**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2450C-2011	ALW	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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92525335

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525335001	**YGWA-5I**					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	5.63	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	2.6	mg/L	1.0	03/09/21 02:21	
EPA 6020B	Barium	0.019	mg/L	0.0050	03/05/21 16:43	
EPA 6020B	Boron	0.011J	mg/L	0.040	03/05/21 16:43	
EPA 6020B	Lead	0.000092J	mg/L	0.0010	03/05/21 16:43	
EPA 6020B	Lithium	0.0031J	mg/L	0.030	03/05/21 16:43	
SM 2450C-2011	Total Dissolved Solids	67.0	mg/L	10.0	03/04/21 14:30	
EPA 300.0 Rev 2.1 1993	Chloride	4.3	mg/L	1.0	03/06/21 20:37	
EPA 300.0 Rev 2.1 1993	Sulfate	2.3	mg/L	1.0	03/06/21 20:37	
92525335002	**YGWA-5D**					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	7.15	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	1.6	mg/L	1.0	03/09/21 02:41	
EPA 6020B	Barium	0.014	mg/L	0.0050	03/05/21 16:49	
EPA 6020B	Boron	0.0068J	mg/L	0.040	03/05/21 16:49	
EPA 6020B	Lead	0.000051J	mg/L	0.0010	03/05/21 16:49	
EPA 6020B	Lithium	0.0018J	mg/L	0.030	03/05/21 16:49	
SM 2450C-2011	Total Dissolved Solids	52.0	mg/L	10.0	03/04/21 14:30	
EPA 300.0 Rev 2.1 1993	Chloride	3.2	mg/L	1.0	03/06/21 21:49	
EPA 300.0 Rev 2.1 1993	Sulfate	2.6	mg/L	1.0	03/06/21 21:49	
92525335003	**DUP-1**					
EPA 6010D	Calcium	1.5	mg/L	1.0	03/09/21 02:46	
EPA 6020B	Antimony	0.0015J	mg/L	0.0030	03/05/21 17:11	
EPA 6020B	Barium	0.014	mg/L	0.0050	03/05/21 17:11	
EPA 6020B	Boron	0.013J	mg/L	0.040	03/05/21 17:11	
EPA 6020B	Lead	0.000069J	mg/L	0.0010	03/05/21 17:11	
EPA 6020B	Lithium	0.0016J	mg/L	0.030	03/05/21 17:11	
SM 2450C-2011	Total Dissolved Solids	48.0	mg/L	10.0	03/04/21 14:30	
EPA 300.0 Rev 2.1 1993	Chloride	3.0	mg/L	1.0	03/06/21 22:04	
EPA 300.0 Rev 2.1 1993	Sulfate	2.0	mg/L	1.0	03/06/21 22:04	
92525335005	**YGWA-14S**					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	5.49	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	1.2	mg/L	1.0	03/09/21 02:56	
EPA 6020B	Barium	0.0076	mg/L	0.0050	03/05/21 17:23	
EPA 6020B	Beryllium	0.00018J	mg/L	0.00050	03/05/21 17:23	
EPA 6020B	Boron	0.017J	mg/L	0.040	03/05/21 17:23	
SM 2450C-2011	Total Dissolved Solids	67.0	mg/L	10.0	03/04/21 14:30	
EPA 300.0 Rev 2.1 1993	Chloride	4.9	mg/L	1.0	03/06/21 22:32	
EPA 300.0 Rev 2.1 1993	Sulfate	6.0	mg/L	1.0	03/06/21 22:32	

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92525335

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525335006	**YGWA-30I**					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	5.78	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	1.2	mg/L	1.0	03/09/21 03:00	
EPA 6020B	Barium	0.0070	mg/L	0.0050	03/05/21 17:58	
EPA 6020B	Cobalt	0.0061	mg/L	0.0050	03/05/21 17:58	
EPA 6020B	Lithium	0.0011J	mg/L	0.030	03/05/21 17:58	
SM 2450C-2011	Total Dissolved Solids	23.0	mg/L	10.0	03/04/21 10:19	D6
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	03/06/21 22:47	
EPA 300.0 Rev 2.1 1993	Sulfate	0.88J	mg/L	1.0	03/06/21 22:47	
92525335007	**FB-01**					
EPA 6010D	Calcium	34.4	mg/L	1.0	03/09/21 03:05	
EPA 6020B	Barium	0.022	mg/L	0.0050	03/05/21 18:04	
EPA 6020B	Chromium	0.00062J	mg/L	0.0050	03/05/21 18:04	
EPA 6020B	Lithium	0.0016J	mg/L	0.030	03/05/21 18:04	
SM 2450C-2011	Total Dissolved Solids	65.0	mg/L	10.0	03/05/21 11:04	
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	03/06/21 23:01	
EPA 300.0 Rev 2.1 1993	Sulfate	2.2	mg/L	1.0	03/06/21 23:01	
92525335008	**DUP-01**					
EPA 6010D	Calcium	1.2	mg/L	1.0	03/09/21 03:20	
EPA 6020B	Barium	0.0078	mg/L	0.0050	03/05/21 18:09	
EPA 6020B	Beryllium	0.00020J	mg/L	0.00050	03/05/21 18:09	
EPA 6020B	Boron	0.016J	mg/L	0.040	03/05/21 18:09	
SM 2450C-2011	Total Dissolved Solids	32.0	mg/L	10.0	03/05/21 11:04	
EPA 300.0 Rev 2.1 1993	Chloride	5.0	mg/L	1.0	03/06/21 23:16	
EPA 300.0 Rev 2.1 1993	Sulfate	6.1	mg/L	1.0	03/06/21 23:16	
92525335011	**YGWA-40**					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	5.23	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	4.6	mg/L	1.0	03/10/21 05:29	
EPA 6020B	Barium	0.032	mg/L	0.0050	03/09/21 15:48	
EPA 6020B	Beryllium	0.00021J	mg/L	0.00050	03/09/21 15:48	
EPA 6020B	Boron	0.078	mg/L	0.040	03/09/21 15:48	
SM 2450C-2011	Total Dissolved Solids	57.0	mg/L	10.0	03/06/21 12:32	
EPA 300.0 Rev 2.1 1993	Chloride	4.9	mg/L	1.0	03/13/21 17:54	
EPA 300.0 Rev 2.1 1993	Sulfate	21.5	mg/L	1.0	03/13/21 17:54	
92525335012	**YGWA-17S**					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	5.52	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	2.5	mg/L	1.0	03/10/21 05:59	
EPA 6020B	Barium	0.017	mg/L	0.0050	03/09/21 15:54	
EPA 6020B	Beryllium	0.000099J	mg/L	0.00050	03/09/21 15:54	
EPA 6020B	Boron	0.010J	mg/L	0.040	03/09/21 15:54	
EPA 6020B	Chromium	0.00082J	mg/L	0.0050	03/09/21 15:54	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92525335

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525335012	**YGWA-17S**					
SM 2450C-2011	Total Dissolved Solids	57.0	mg/L	10.0	03/05/21 15:36	
EPA 300.0 Rev 2.1 1993	Chloride	7.1	mg/L	1.0	03/13/21 18:10	
EPA 300.0 Rev 2.1 1993	Sulfate	5.2	mg/L	1.0	03/13/21 18:10	
92525335013	**YGWA-18S**					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	5.31	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	0.96J	mg/L	1.0	03/10/21 06:03	
EPA 6020B	Antimony	0.00067J	mg/L	0.0030	03/09/21 16:17	
EPA 6020B	Barium	0.017	mg/L	0.0050	03/09/21 16:17	
EPA 6020B	Beryllium	0.00011J	mg/L	0.00050	03/09/21 16:17	
EPA 6020B	Boron	0.0094J	mg/L	0.040	03/09/21 16:17	
EPA 6020B	Chromium	0.0010J	mg/L	0.0050	03/09/21 16:17	
EPA 6020B	Lead	0.000076J	mg/L	0.0010	03/09/21 16:17	
EPA 6020B	Lithium	0.0021J	mg/L	0.030	03/09/21 16:17	
SM 2450C-2011	Total Dissolved Solids	37.0	mg/L	10.0	03/05/21 15:36	
EPA 300.0 Rev 2.1 1993	Chloride	7.2	mg/L	1.0	03/13/21 18:56	
EPA 300.0 Rev 2.1 1993	Sulfate	1.0	mg/L	1.0	03/13/21 18:56	
92525335014	**YGWA-18I**					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	5.89	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	5.2	mg/L	1.0	03/10/21 06:08	
EPA 6020B	Barium	0.023	mg/L	0.0050	03/09/21 16:23	
EPA 6020B	Chromium	0.00087J	mg/L	0.0050	03/09/21 16:23	
EPA 6020B	Lithium	0.0034J	mg/L	0.030	03/09/21 16:23	
SM 2450C-2011	Total Dissolved Solids	95.0	mg/L	10.0	03/06/21 13:09	
EPA 300.0 Rev 2.1 1993	Chloride	7.0	mg/L	1.0	03/13/21 19:12	
92525335015	**YGWA-39**					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	5.54	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	8.2	mg/L	1.0	03/10/21 06:13	
EPA 6020B	Barium	0.028	mg/L	0.0050	03/09/21 16:28	
EPA 6020B	Boron	0.033J	mg/L	0.040	03/09/21 16:28	
EPA 6020B	Cadmium	0.00030J	mg/L	0.00050	03/09/21 16:28	
EPA 6020B	Cobalt	0.00071J	mg/L	0.0050	03/09/21 16:28	
EPA 6020B	Lithium	0.0084J	mg/L	0.030	03/09/21 16:28	
EPA 6020B	Molybdenum	0.0014J	mg/L	0.010	03/09/21 16:28	
SM 2450C-2011	Total Dissolved Solids	168	mg/L	10.0	03/06/21 12:32	
EPA 300.0 Rev 2.1 1993	Chloride	4.9	mg/L	1.0	03/13/21 19:28	
EPA 300.0 Rev 2.1 1993	Sulfate	12.0	mg/L	1.0	03/13/21 19:28	
92525335016	**YGWA-1D (030321)**					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	7.20	Std. Units		03/08/21 09:07	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92525335

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525335016	**YGWA-1D (030321)**					
EPA 6010D	Calcium	14.1	mg/L	1.0	03/10/21 06:18	
EPA 6020B	Barium	0.0068	mg/L	0.0050	03/09/21 17:01	
EPA 6020B	Lead	0.000056J	mg/L	0.0010	03/09/21 17:01	
EPA 6020B	Lithium	0.012J	mg/L	0.030	03/09/21 17:01	
EPA 6020B	Molybdenum	0.0088J	mg/L	0.010	03/09/21 17:01	
SM 2450C-2011	Total Dissolved Solids	99.0	mg/L	10.0	03/06/21 13:09	
EPA 300.0 Rev 2.1 1993	Chloride	0.96J	mg/L	1.0	03/13/21 19:43	
EPA 300.0 Rev 2.1 1993	Fluoride	0.078J	mg/L	0.10	03/13/21 19:43	
EPA 300.0 Rev 2.1 1993	Sulfate	9.0	mg/L	1.0	03/13/21 19:43	
92525335017	**YGWA-1I (030321)**					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	5.38	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	1.8	mg/L	1.0	03/10/21 06:23	
EPA 6020B	Barium	0.0094	mg/L	0.0050	03/09/21 17:07	
EPA 6020B	Cobalt	0.0030J	mg/L	0.0050	03/09/21 17:07	
EPA 6020B	Lithium	0.0025J	mg/L	0.030	03/09/21 17:07	
EPA 6020B	Molybdenum	0.0049J	mg/L	0.010	03/09/21 17:07	
SM 2450C-2011	Total Dissolved Solids	39.0	mg/L	10.0	03/06/21 13:09	
EPA 300.0 Rev 2.1 1993	Chloride	1.2	mg/L	1.0	03/13/21 19:59	
EPA 300.0 Rev 2.1 1993	Sulfate	4.4	mg/L	1.0	03/13/21 19:59	
92525335018	**YGWA-2I (030321)**					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	7.92	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	25.6	mg/L	1.0	03/10/21 06:28	
EPA 6020B	Arsenic	0.00098J	mg/L	0.0050	03/09/21 17:12	
EPA 6020B	Barium	0.0041J	mg/L	0.0050	03/09/21 17:12	
EPA 6020B	Lithium	0.0016J	mg/L	0.030	03/09/21 17:12	
EPA 6020B	Molybdenum	0.0074J	mg/L	0.010	03/09/21 17:12	
SM 2450C-2011	Total Dissolved Solids	138	mg/L	10.0	03/06/21 13:10	
EPA 300.0 Rev 2.1 1993	Chloride	0.86J	mg/L	1.0	03/13/21 20:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.085J	mg/L	0.10	03/13/21 20:14	
EPA 300.0 Rev 2.1 1993	Sulfate	10.6	mg/L	1.0	03/13/21 20:14	
92525335019	**YGWA-3I (030321)**					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	8.23	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	20.6	mg/L	1.0	03/10/21 06:32	
EPA 6020B	Barium	0.0031J	mg/L	0.0050	03/09/21 17:18	
EPA 6020B	Lithium	0.017J	mg/L	0.030	03/09/21 17:18	
EPA 6020B	Molybdenum	0.0036J	mg/L	0.010	03/09/21 17:18	
SM 2450C-2011	Total Dissolved Solids	111	mg/L	10.0	03/06/21 13:10	
EPA 300.0 Rev 2.1 1993	Chloride	0.99J	mg/L	1.0	03/13/21 21:00	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	03/13/21 21:00	
EPA 300.0 Rev 2.1 1993	Sulfate	9.6	mg/L	1.0	03/13/21 21:00	M1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92525335

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525335020	**YGWA-3D (030321)**					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	8.39	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	29.8	mg/L	1.0	03/10/21 06:47	
EPA 6020B	Barium	0.0064	mg/L	0.0050	03/09/21 17:24	
EPA 6020B	Lithium	0.024J	mg/L	0.030	03/09/21 17:24	
EPA 6020B	Molybdenum	0.013	mg/L	0.010	03/09/21 17:24	
SM 2450C-2011	Total Dissolved Solids	137	mg/L	10.0	03/06/21 13:10	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	03/13/21 22:18	
EPA 300.0 Rev 2.1 1993	Fluoride	0.44	mg/L	0.10	03/13/21 22:18	
EPA 300.0 Rev 2.1 1993	Sulfate	7.0	mg/L	1.0	03/13/21 22:18	
92525335021	**EB-02 (03032021)**					
EPA 6010D	Calcium	33.3	mg/L	1.0	03/10/21 06:52	
EPA 6020B	Barium	0.023	mg/L	0.0050	03/09/21 17:29	
EPA 6020B	Chromium	0.00057J	mg/L	0.0050	03/09/21 17:29	
EPA 6020B	Lithium	0.0016J	mg/L	0.030	03/09/21 17:29	
SM 2450C-2011	Total Dissolved Solids	102	mg/L	10.0	03/06/21 13:10	
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	03/13/21 22:33	
EPA 300.0 Rev 2.1 1993	Sulfate	2.2	mg/L	1.0	03/13/21 22:33	
92525335022	**YGWA-4I**					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	6.21	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	7.7	mg/L	1.0	03/10/21 06:56	
EPA 6020B	Barium	0.014	mg/L	0.0050	03/09/21 17:35	
EPA 6020B	Boron	0.0056J	mg/L	0.040	03/09/21 17:35	
EPA 6020B	Chromium	0.0013J	mg/L	0.0050	03/09/21 17:35	
EPA 6020B	Lithium	0.012J	mg/L	0.030	03/09/21 17:35	
EPA 6020B	Selenium	0.0019J	mg/L	0.0050	03/09/21 17:35	
SM 2450C-2011	Total Dissolved Solids	80.0	mg/L	10.0	03/06/21 13:11	
EPA 300.0 Rev 2.1 1993	Chloride	4.1	mg/L	1.0	03/13/21 22:49	
EPA 300.0 Rev 2.1 1993	Sulfate	7.8	mg/L	1.0	03/13/21 22:49	
92525335023	**YGWA-20S**					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	5.89	Std. Units		03/08/21 09:07	
EPA 6010D	Calcium	2.4	mg/L	1.0	03/10/21 07:01	
EPA 6020B	Barium	0.015	mg/L	0.0050	03/09/21 17:56	
EPA 6020B	Beryllium	0.000068J	mg/L	0.00050	03/09/21 17:56	
EPA 6020B	Lead	0.000045J	mg/L	0.0010	03/09/21 17:56	
SM 2450C-2011	Total Dissolved Solids	53.0	mg/L	10.0	03/06/21 13:11	
EPA 300.0 Rev 2.1 1993	Chloride	2.7	mg/L	1.0	03/13/21 23:04	
92525335024	**YGWA-21I**					
	Performed by	CUSTOMER			03/08/21 09:07	
	pH	6.80	Std. Units		03/08/21 09:07	

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SUMMARY OF DETECTION

Project: YATES
Pace Project No.: 92525335

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525335024	**YGWA-21I**					
EPA 6010D	Calcium	8.7	mg/L	1.0	03/10/21 07:06	
EPA 6020B	Antimony	0.0014J	mg/L	0.0030	03/09/21 18:02	
EPA 6020B	Arsenic	0.00078J	mg/L	0.0050	03/09/21 18:02	
EPA 6020B	Barium	0.011	mg/L	0.0050	03/09/21 18:02	
EPA 6020B	Boron	0.0079J	mg/L	0.040	03/09/21 18:02	
EPA 6020B	Cobalt	0.0065	mg/L	0.0050	03/09/21 18:02	
EPA 6020B	Lithium	0.0062J	mg/L	0.030	03/09/21 18:02	
SM 2450C-2011	Total Dissolved Solids	110	mg/L	10.0	03/06/21 12:32	
EPA 300.0 Rev 2.1 1993	Chloride	1.8	mg/L	1.0	03/13/21 23:20	
EPA 300.0 Rev 2.1 1993	Fluoride	0.091J	mg/L	0.10	03/13/21 23:20	
EPA 300.0 Rev 2.1 1993	Sulfate	4.5	mg/L	1.0	03/13/21 23:20	

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-5I **Lab ID: 92525335001** Collected: 03/02/21 14:05 Received: 03/02/21 17:30 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		03/08/21 09:07		
pH	**5.63**	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**2.6**	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 02:21	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	0.00028	1	03/04/21 11:29	03/05/21 16:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 16:43	7440-38-2	
Barium	**0.019**	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 16:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 16:43	7440-41-7	
Boron	**0.011J**	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 16:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 16:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 16:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 16:43	7440-48-4	
Lead	**0.000092J**	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 16:43	7439-92-1	
Lithium	**0.0031J**	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 16:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 16:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 16:43	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 10:52	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**67.0**	mg/L	10.0	10.0	1		03/04/21 14:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.3**	mg/L	1.0	0.60	1		03/06/21 20:37	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 20:37	16984-48-8	
Sulfate	**2.3**	mg/L	1.0	0.50	1		03/06/21 20:37	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-5D **Lab ID: 92525335002** Collected: 03/02/21 14:40 Received: 03/02/21 17:30 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		03/08/21 09:07		
pH	**7.15**	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**1.6**	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 02:41	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	0.00028	1	03/04/21 11:29	03/05/21 16:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 16:49	7440-38-2	
Barium	**0.014**	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 16:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 16:49	7440-41-7	
Boron	**0.0068J**	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 16:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 16:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 16:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 16:49	7440-48-4	
Lead	**0.000051J**	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 16:49	7439-92-1	
Lithium	**0.0018J**	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 16:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 16:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 16:49	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 10:55	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**52.0**	mg/L	10.0	10.0	1		03/04/21 14:30		
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		03/06/21 21:49	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 21:49	16984-48-8	
Sulfate	**2.6**	mg/L	1.0	0.50	1		03/06/21 21:49	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: DUP-1 **Lab ID: 92525335003** Collected: 03/02/21 00:00 Received: 03/02/21 17:30 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	**1.5**	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 02:46	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0015J**	mg/L	0.0030	0.00028	1	03/04/21 11:29	03/05/21 17:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 17:11	7440-38-2	
Barium	**0.014**	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 17:11	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 17:11	7440-41-7	
Boron	**0.013J**	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 17:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 17:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 17:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 17:11	7440-48-4	
Lead	**0.000069J**	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 17:11	7439-92-1	
Lithium	**0.0016J**	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 17:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 17:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 17:11	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 10:57	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**48.0**	mg/L	10.0	10.0	1		03/04/21 14:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.0**	mg/L	1.0	0.60	1		03/06/21 22:04	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 22:04	16984-48-8	
Sulfate	**2.0**	mg/L	1.0	0.50	1		03/06/21 22:04	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-14S **Lab ID: 92525335005** Collected: 03/02/21 11:20 Received: 03/02/21 17:30 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		03/08/21 09:07		
pH	**5.49**	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**1.2**	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 02:56	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	0.00028	1	03/04/21 11:29	03/05/21 17:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 17:23	7440-38-2	
Barium	**0.0076**	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 17:23	7440-39-3	
Beryllium	**0.00018J**	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 17:23	7440-41-7	
Boron	**0.017J**	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 17:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 17:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 17:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 17:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 17:23	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 17:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 17:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 17:23	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**67.0**	mg/L	10.0	10.0	1		03/04/21 14:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.9**	mg/L	1.0	0.60	1		03/06/21 22:32	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 22:32	16984-48-8	
Sulfate	**6.0**	mg/L	1.0	0.50	1		03/06/21 22:32	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-30I **Lab ID: 92525335006** Collected: 03/01/21 16:25 Received: 03/02/21 17:30 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		03/08/21 09:07		
pH	**5.78**	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**1.2**	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 03:00	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	0.00028	1	03/04/21 11:29	03/05/21 17:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 17:58	7440-38-2	
Barium	**0.0070**	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 17:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 17:58	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 17:58	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 17:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 17:58	7440-47-3	
Cobalt	**0.0061**	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 17:58	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 17:58	7439-92-1	
Lithium	**0.0011J**	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 17:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 17:58	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 17:58	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**23.0**	mg/L	10.0	10.0	1		03/04/21 10:19		D6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.6**	mg/L	1.0	0.60	1		03/06/21 22:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 22:47	16984-48-8	
Sulfate	**0.88J**	mg/L	1.0	0.50	1		03/06/21 22:47	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: FB-01 **Lab ID: 92525335007** Collected: 03/02/21 11:30 Received: 03/02/21 17:30 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	**34.4**	mg/L	1.0	0.070	1	03/04/21 11:30	03/09/21 03:05	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	0.00028	1	03/04/21 11:29	03/05/21 18:04	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 18:04	7440-38-2	
Barium	**0.022**	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 18:04	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 18:04	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 18:04	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 18:04	7440-43-9	
Chromium	**0.00062J**	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 18:04	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 18:04	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 18:04	7439-92-1	
Lithium	**0.0016J**	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 18:04	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 18:04	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 18:04	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 11:07	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**65.0**	mg/L	10.0	10.0	1		03/05/21 11:04		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.6**	mg/L	1.0	0.60	1		03/06/21 23:01	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 23:01	16984-48-8	
Sulfate	**2.2**	mg/L	1.0	0.50	1		03/06/21 23:01	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: DUP-01 **Lab ID: 92525335008** Collected: 03/02/21 00:00 Received: 03/02/21 17:30 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	0.070	1	03/04/21 11:30	03/09/21 03:20	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	0.00028	1	03/04/21 11:29	03/05/21 18:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 18:09	7440-38-2	
Barium	**0.0078**	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 18:09	7440-39-3	
Beryllium	**0.00020J**	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 18:09	7440-41-7	
Boron	**0.016J**	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 18:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 18:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 18:09	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 18:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 18:09	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 18:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 18:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 18:09	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 11:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**32.0**	mg/L	10.0	10.0	1		03/05/21 11:04		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.0**	mg/L	1.0	0.60	1		03/06/21 23:16	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 23:16	16984-48-8	
Sulfate	**6.1**	mg/L	1.0	0.50	1		03/06/21 23:16	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: FB-01 **Lab ID: 92525335009** Collected: 03/02/21 15:20 Received: 03/02/21 17:30 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	0.070	1	03/04/21 11:30	03/09/21 03:24	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	0.00028	1	03/04/21 11:29	03/05/21 18:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/04/21 11:29	03/05/21 18:15	7440-38-2	
Barium	ND	mg/L	0.0050	0.00071	1	03/04/21 11:29	03/05/21 18:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/04/21 11:29	03/05/21 18:15	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/04/21 11:29	03/05/21 18:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/04/21 11:29	03/05/21 18:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/04/21 11:29	03/05/21 18:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/04/21 11:29	03/05/21 18:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/04/21 11:29	03/05/21 18:15	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/04/21 11:29	03/05/21 18:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/04/21 11:29	03/05/21 18:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/04/21 11:29	03/05/21 18:15	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/04/21 14:15	03/05/21 11:11	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/05/21 11:05		
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		03/06/21 23:30	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/06/21 23:30	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/06/21 23:30	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-40 **Lab ID: 92525335011** Collected: 03/04/21 10:10 Received: 03/05/21 09:20 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		03/08/21 09:07		
pH	**5.23**	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**4.6**	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 05:29	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	0.00028	1	03/08/21 11:57	03/09/21 15:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 15:48	7440-38-2	
Barium	**0.032**	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 15:48	7440-39-3	
Beryllium	**0.00021J**	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 15:48	7440-41-7	
Boron	**0.078**	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 15:48	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 15:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 15:48	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 15:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 15:48	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 15:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 15:48	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 15:48	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 10:52	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**57.0**	mg/L	10.0	10.0	1		03/06/21 12:32		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.9**	mg/L	1.0	0.60	1		03/13/21 17:54	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 17:54	16984-48-8	
Sulfate	**21.5**	mg/L	1.0	0.50	1		03/13/21 17:54	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-17S **Lab ID: 92525335012** Collected: 03/03/21 12:20 Received: 03/05/21 09:20 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		03/08/21 09:07		
pH	**5.52**	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**2.5**	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 05:59	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	0.00028	1	03/08/21 11:57	03/09/21 15:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 15:54	7440-38-2	
Barium	**0.017**	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 15:54	7440-39-3	
Beryllium	**0.000099J**	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 15:54	7440-41-7	
Boron	**0.010J**	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 15:54	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 15:54	7440-43-9	
Chromium	**0.00082J**	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 15:54	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 15:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 15:54	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 15:54	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 15:54	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 15:54	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 10:54	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**57.0**	mg/L	10.0	10.0	1		03/05/21 15:36		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.1**	mg/L	1.0	0.60	1		03/13/21 18:10	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 18:10	16984-48-8	
Sulfate	**5.2**	mg/L	1.0	0.50	1		03/13/21 18:10	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-18S **Lab ID: 92525335013** Collected: 03/03/21 13:50 Received: 03/05/21 09:20 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		03/08/21 09:07		
pH	**5.31**	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**0.96J**	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:03	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00067J**	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 16:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 16:17	7440-38-2	
Barium	**0.017**	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 16:17	7440-39-3	
Beryllium	**0.00011J**	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 16:17	7440-41-7	
Boron	**0.0094J**	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 16:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 16:17	7440-43-9	
Chromium	**0.0010J**	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 16:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 16:17	7440-48-4	
Lead	**0.000076J**	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 16:17	7439-92-1	
Lithium	**0.0021J**	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 16:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 16:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 16:17	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 10:57	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**37.0**	mg/L	10.0	10.0	1		03/05/21 15:36		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.2**	mg/L	1.0	0.60	1		03/13/21 18:56	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 18:56	16984-48-8	
Sulfate	**1.0**	mg/L	1.0	0.50	1		03/13/21 18:56	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-18I **Lab ID: 92525335014** Collected: 03/03/21 15:00 Received: 03/05/21 09:20 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		03/08/21 09:07		
pH	**5.89**	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**5.2**	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:08	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	0.00028	1	03/08/21 11:57	03/09/21 16:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 16:23	7440-38-2	
Barium	**0.023**	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 16:23	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 16:23	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 16:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 16:23	7440-43-9	
Chromium	**0.00087J**	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 16:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 16:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 16:23	7439-92-1	
Lithium	**0.0034J**	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 16:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 16:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 16:23	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 10:59	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**95.0**	mg/L	10.0	10.0	1		03/06/21 13:09		
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		03/13/21 19:12	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 19:12	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/13/21 19:12	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-39 **Lab ID: 92525335015** Collected: 03/04/21 10:20 Received: 03/05/21 09:20 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		03/08/21 09:07		
pH	**5.54**	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**8.2**	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:13	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	0.00028	1	03/08/21 11:57	03/09/21 16:28	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 16:28	7440-38-2	
Barium	**0.028**	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 16:28	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 16:28	7440-41-7	
Boron	**0.033J**	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 16:28	7440-42-8	
Cadmium	**0.00030J**	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 16:28	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 16:28	7440-47-3	
Cobalt	**0.00071J**	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 16:28	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 16:28	7439-92-1	
Lithium	**0.0084J**	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 16:28	7439-93-2	
Molybdenum	**0.0014J**	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 16:28	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 16:28	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 11:01	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**168**	mg/L	10.0	10.0	1		03/06/21 12:32		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.9**	mg/L	1.0	0.60	1		03/13/21 19:28	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 19:28	16984-48-8	
Sulfate	**12.0**	mg/L	1.0	0.50	1		03/13/21 19:28	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-1D (030321) **Lab ID: 92525335016** Collected: 03/03/21 14:25 Received: 03/05/21 09:20 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		03/08/21 09:07		
pH	**7.20**	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**14.1**	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:18	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	0.00028	1	03/08/21 11:57	03/09/21 17:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:01	7440-38-2	
Barium	**0.0068**	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:01	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:01	7440-48-4	
Lead	**0.000056J**	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:01	7439-92-1	
Lithium	**0.012J**	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:01	7439-93-2	
Molybdenum	**0.0088J**	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:01	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**99.0**	mg/L	10.0	10.0	1		03/06/21 13:09		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**0.96J**	mg/L	1.0	0.60	1		03/13/21 19:43	16887-00-6	
Fluoride	**0.078J**	mg/L	0.10	0.050	1		03/13/21 19:43	16984-48-8	
Sulfate	**9.0**	mg/L	1.0	0.50	1		03/13/21 19:43	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-1I (030321) **Lab ID: 92525335017** Collected: 03/03/21 13:35 Received: 03/05/21 09:20 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		03/08/21 09:07		
pH	**5.38**	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**1.8**	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:23	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	0.00028	1	03/08/21 11:57	03/09/21 17:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:07	7440-38-2	
Barium	**0.0094**	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:07	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:07	7440-47-3	
Cobalt	**0.0030J**	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:07	7439-92-1	
Lithium	**0.0025J**	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:07	7439-93-2	
Molybdenum	**0.0049J**	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:07	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**39.0**	mg/L	10.0	10.0	1		03/06/21 13:09		
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		03/13/21 19:59	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 19:59	16984-48-8	
Sulfate	**4.4**	mg/L	1.0	0.50	1		03/13/21 19:59	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-2I (030321) **Lab ID: 92525335018** Collected: 03/03/21 11:45 Received: 03/05/21 09:20 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		03/08/21 09:07		
pH	**7.92**	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**25.6**	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:28	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	0.00028	1	03/08/21 11:57	03/09/21 17:12	7440-36-0	
Arsenic	**0.00098J**	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:12	7440-38-2	
Barium	**0.0041J**	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:12	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:12	7439-92-1	
Lithium	**0.0016J**	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:12	7439-93-2	
Molybdenum	**0.0074J**	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:12	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**138**	mg/L	10.0	10.0	1		03/06/21 13:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**0.86J**	mg/L	1.0	0.60	1		03/13/21 20:14	16887-00-6	
Fluoride	**0.085J**	mg/L	0.10	0.050	1		03/13/21 20:14	16984-48-8	
Sulfate	**10.6**	mg/L	1.0	0.50	1		03/13/21 20:14	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-3I (030321) **Lab ID: 92525335019** Collected: 03/03/21 17:00 Received: 03/05/21 09:20 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		03/08/21 09:07		
pH	**8.23**	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**20.6**	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:32	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	0.00028	1	03/08/21 11:57	03/09/21 17:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:18	7440-38-2	
Barium	**0.0031J**	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:18	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:18	7439-92-1	
Lithium	**0.017J**	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:18	7439-93-2	
Molybdenum	**0.0036J**	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:18	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**111**	mg/L	10.0	10.0	1		03/06/21 13:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**0.99J**	mg/L	1.0	0.60	1		03/13/21 21:00	16887-00-6	
Fluoride	**0.10**	mg/L	0.10	0.050	1		03/13/21 21:00	16984-48-8	
Sulfate	**9.6**	mg/L	1.0	0.50	1		03/13/21 21:00	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-3D (030321) **Lab ID: 92525335020** Collected: 03/03/21 16:00 Received: 03/05/21 09:20 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		03/08/21 09:07		
pH	**8.39**	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**29.8**	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:47	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	0.00028	1	03/08/21 11:57	03/09/21 17:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:24	7440-38-2	
Barium	**0.0064**	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:24	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:24	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:24	7439-92-1	
Lithium	**0.024J**	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:24	7439-93-2	
Molybdenum	**0.013**	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:24	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:24	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**137**	mg/L	10.0	10.0	1		03/06/21 13:10		
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		03/13/21 22:18	16887-00-6	
Fluoride	**0.44**	mg/L	0.10	0.050	1		03/13/21 22:18	16984-48-8	
Sulfate	**7.0**	mg/L	1.0	0.50	1		03/13/21 22:18	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: EB-02 (03032021) **Lab ID: 92525335021** Collected: 03/03/21 17:15 Received: 03/05/21 09:20 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	**33.3**	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:52	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	0.00028	1	03/08/21 11:57	03/09/21 17:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:29	7440-38-2	
Barium	**0.023**	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:29	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:29	7440-43-9	
Chromium	**0.00057J**	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:29	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:29	7439-92-1	
Lithium	**0.0016J**	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:29	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/08/21 11:57	03/09/21 17:29	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	0.000078	1	03/08/21 13:30	03/09/21 11:04	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**102**	mg/L	10.0	10.0	1		03/06/21 13:10		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.6**	mg/L	1.0	0.60	1		03/13/21 22:33	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 22:33	16984-48-8	
Sulfate	**2.2**	mg/L	1.0	0.50	1		03/13/21 22:33	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-4I **Lab ID: 92525335022** Collected: 03/03/21 10:35 Received: 03/05/21 09:20 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		03/08/21 09:07		
pH	**6.21**	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**7.7**	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 06:56	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	0.00028	1	03/08/21 11:57	03/09/21 17:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:35	7440-38-2	
Barium	**0.014**	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:35	7440-41-7	
Boron	**0.0056J**	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:35	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:35	7440-43-9	
Chromium	**0.0013J**	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:35	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:35	7439-92-1	
Lithium	**0.012J**	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:35	7439-98-7	
Selenium	**0.0019J**	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:35	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 11:11	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**80.0**	mg/L	10.0	10.0	1		03/06/21 13:11		
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		03/13/21 22:49	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 22:49	16984-48-8	
Sulfate	**7.8**	mg/L	1.0	0.50	1		03/13/21 22:49	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-20S **Lab ID: 92525335023** Collected: 03/03/21 09:40 Received: 03/05/21 09:20 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		03/08/21 09:07		
pH	**5.89**	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**2.4**	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 07:01	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	0.00028	1	03/08/21 11:57	03/09/21 17:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 17:56	7440-38-2	
Barium	**0.015**	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 17:56	7440-39-3	
Beryllium	**0.000068J**	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 17:56	7440-41-7	
Boron	ND	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 17:56	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 17:56	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 17:56	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 17:56	7440-48-4	
Lead	**0.000045J**	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 17:56	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 17:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 17:56	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 17:56	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 11:13	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**53.0**	mg/L	10.0	10.0	1		03/06/21 13:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.7**	mg/L	1.0	0.60	1		03/13/21 23:04	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		03/13/21 23:04	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/13/21 23:04	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES
Pace Project No.: 92525335

Sample: YGWA-21I **Lab ID: 92525335024** Collected: 03/04/21 09:35 Received: 03/05/21 09:20 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		03/08/21 09:07		
pH	**6.80**	Std. Units			1		03/08/21 09:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**8.7**	mg/L	1.0	0.070	1	03/08/21 10:47	03/10/21 07:06	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0014J**	mg/L	0.0030	0.00028	1	03/08/21 11:57	03/09/21 18:02	7440-36-0	
Arsenic	**0.00078J**	mg/L	0.0050	0.00078	1	03/08/21 11:57	03/09/21 18:02	7440-38-2	
Barium	**0.011**	mg/L	0.0050	0.00071	1	03/08/21 11:57	03/09/21 18:02	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000046	1	03/08/21 11:57	03/09/21 18:02	7440-41-7	
Boron	**0.0079J**	mg/L	0.040	0.0052	1	03/08/21 11:57	03/09/21 18:02	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00012	1	03/08/21 11:57	03/09/21 18:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.00055	1	03/08/21 11:57	03/09/21 18:02	7440-47-3	
Cobalt	**0.0065**	mg/L	0.0050	0.00038	1	03/08/21 11:57	03/09/21 18:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.000036	1	03/08/21 11:57	03/09/21 18:02	7439-92-1	
Lithium	**0.0062J**	mg/L	0.030	0.00081	1	03/08/21 11:57	03/09/21 18:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	03/08/21 11:57	03/09/21 18:02	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0016	1	03/08/21 11:57	03/09/21 18:02	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	03/08/21 13:30	03/09/21 11:16	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**110**	mg/L	10.0	10.0	1		03/06/21 12:32		
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		03/13/21 23:20	16887-00-6	
Fluoride	**0.091J**	mg/L	0.10	0.050	1		03/13/21 23:20	16984-48-8	
Sulfate	**4.5**	mg/L	1.0	0.50	1		03/13/21 23:20	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604223
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525335001, 92525335002, 92525335003, 92525335005, 92525335006, 92525335007, 92525335008, 92525335009

METHOD BLANK: 3183140 Matrix: Water
Associated Lab Samples: 92525335001, 92525335002, 92525335003, 92525335005, 92525335006, 92525335007, 92525335008, 92525335009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/09/21 01:57	

LABORATORY CONTROL SAMPLE: 3183141

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: 3183142 3183143

Parameter	Units	92525335001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	2.6	1	1	3.6	3.5	105	94	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604893
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525335011, 92525335012, 92525335013, 92525335014, 92525335015, 92525335016, 92525335017, 92525335018, 92525335019, 92525335020, 92525335021, 92525335022, 92525335023, 92525335024

METHOD BLANK: 3186898 Matrix: Water
Associated Lab Samples: 92525335011, 92525335012, 92525335013, 92525335014, 92525335015, 92525335016, 92525335017, 92525335018, 92525335019, 92525335020, 92525335021, 92525335022, 92525335023, 92525335024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	03/10/21 05:19	

LABORATORY CONTROL SAMPLE: 3186899

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: 3186900 3186901

Parameter	Units	92525335011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	4.6	1	1	5.5	5.4	92	76	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604224
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525335001, 92525335002, 92525335003, 92525335005, 92525335006, 92525335007, 92525335008, 92525335009

METHOD BLANK: 3183148 Matrix: Water
Associated Lab Samples: 92525335001, 92525335002, 92525335003, 92525335005, 92525335006, 92525335007, 92525335008, 92525335009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	03/05/21 16:31	
Arsenic	mg/L	ND	0.0050	0.00078	03/05/21 16:31	
Barium	mg/L	ND	0.0050	0.00071	03/05/21 16:31	
Beryllium	mg/L	ND	0.00050	0.000046	03/05/21 16:31	
Boron	mg/L	ND	0.040	0.0052	03/05/21 16:31	
Cadmium	mg/L	ND	0.00050	0.00012	03/05/21 16:31	
Chromium	mg/L	ND	0.0050	0.00055	03/05/21 16:31	
Cobalt	mg/L	ND	0.0050	0.00038	03/05/21 16:31	
Lead	mg/L	ND	0.0010	0.000036	03/05/21 16:31	
Lithium	mg/L	ND	0.030	0.00081	03/05/21 16:31	
Molybdenum	mg/L	ND	0.010	0.00069	03/05/21 16:31	
Selenium	mg/L	ND	0.0050	0.0016	03/05/21 16:31	

LABORATORY CONTROL SAMPLE: 3183149

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	0.096	96	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	0.91	91	80-120	
Cadmium	mg/L	0.1	0.096	96	80-120	
Chromium	mg/L	0.1	0.096	96	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3183150 3183151

Parameter	Units	92525335002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	105	106	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.096	0.093	96	93	75-125	3	20	
Barium	mg/L	0.014	0.1	0.1	0.11	0.11	96	99	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3183150 3183151

Parameter	Units	92525335002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium	mg/L	ND	0.1	0.1	0.095	0.093	95	93	75-125	2	20	
Boron	mg/L	0.0068J	1	1	0.96	0.96	96	96	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.098	99	98	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	2	20	
Lead	mg/L	0.000051J	0.1	0.1	0.098	0.095	98	95	75-125	3	20	
Lithium	mg/L	0.0018J	0.1	0.1	0.10	0.097	98	95	75-125	3	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.094	0.092	94	92	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604916
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525335011, 92525335012, 92525335013, 92525335014, 92525335015, 92525335016, 92525335017, 92525335018, 92525335019, 92525335020, 92525335021, 92525335022, 92525335023, 92525335024

METHOD BLANK: 3187128 Matrix: Water
Associated Lab Samples: 92525335011, 92525335012, 92525335013, 92525335014, 92525335015, 92525335016, 92525335017, 92525335018, 92525335019, 92525335020, 92525335021, 92525335022, 92525335023, 92525335024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	03/09/21 15:37	
Arsenic	mg/L	ND	0.0050	0.00078	03/09/21 15:37	
Barium	mg/L	ND	0.0050	0.00071	03/09/21 15:37	
Beryllium	mg/L	ND	0.00050	0.000046	03/09/21 15:37	
Boron	mg/L	ND	0.040	0.0052	03/09/21 15:37	
Cadmium	mg/L	ND	0.00050	0.00012	03/09/21 15:37	
Chromium	mg/L	ND	0.0050	0.00055	03/09/21 15:37	
Cobalt	mg/L	ND	0.0050	0.00038	03/09/21 15:37	
Lead	mg/L	ND	0.0010	0.000036	03/09/21 15:37	
Lithium	mg/L	ND	0.030	0.00081	03/09/21 15:37	
Molybdenum	mg/L	ND	0.010	0.00069	03/09/21 15:37	
Selenium	mg/L	ND	0.0050	0.0016	03/09/21 15:37	
Thallium	mg/L	ND	0.0010	0.00014	03/09/21 15:37	

LABORATORY CONTROL SAMPLE: 3187129

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.097	97	80-120	
Arsenic	mg/L	0.1	0.093	93	80-120	
Barium	mg/L	0.1	0.094	94	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.094	94	80-120	
Selenium	mg/L	0.1	0.091	91	80-120	
Thallium	mg/L	0.1	0.092	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3187130 3187131

Parameter	Units	92525335012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.094	0.096	94	96	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3187130 3187131

Parameter	Units	92525335012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.092	0.092	92	92	75-125	0	20	
Barium	mg/L	0.017	0.1	0.1	0.11	0.11	90	94	75-125	3	20	
Beryllium	mg/L	0.000099J	0.1	0.1	0.093	0.095	93	95	75-125	3	20	
Boron	mg/L	0.010J	1	1	0.98	0.99	97	98	75-125	2	20	
Cadmium	mg/L	ND	0.1	0.1	0.095	0.096	95	96	75-125	1	20	
Chromium	mg/L	0.00082J	0.1	0.1	0.098	0.098	97	97	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.092	0.091	92	91	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.098	0.10	97	100	75-125	3	20	
Molybdenum	mg/L	ND	0.1	0.1	0.092	0.091	92	91	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.089	0.087	88	86	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.089	0.090	89	90	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604308 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525335001, 92525335002, 92525335003, 92525335007, 92525335008, 92525335009

METHOD BLANK: 3183676 Matrix: Water
Associated Lab Samples: 92525335001, 92525335002, 92525335003, 92525335007, 92525335008, 92525335009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/05/21 10:07	

LABORATORY CONTROL SAMPLE: 3183677

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: 3183678 3183679

Parameter	Units	92524632013 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	0.0026	0.0026	102	102	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604928
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525335011, 92525335012, 92525335013, 92525335014, 92525335015, 92525335021, 92525335022, 92525335023, 92525335024

METHOD BLANK: 3187260 Matrix: Water
Associated Lab Samples: 92525335011, 92525335012, 92525335013, 92525335014, 92525335015, 92525335021, 92525335022, 92525335023, 92525335024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	03/09/21 10:42	

LABORATORY CONTROL SAMPLE: 3187261

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3187262 3187263

Parameter	Units	92525375013 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	0.0023	0.0019	93	78	75-125	18	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604206
QC Batch Method: SM 2450C-2011
Analysis Method: SM 2450C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525335006

METHOD BLANK: 3183000 Matrix: Water
Associated Lab Samples: 92525335006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/04/21 10:17	

LABORATORY CONTROL SAMPLE: 3183001

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	387	97	90-111	

SAMPLE DUPLICATE: 3183002

Parameter	Units	92525485001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	84.0	85.0	1	10	

SAMPLE DUPLICATE: 3183003

Parameter	Units	92525335006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	23.0	41.0	56	10	D6

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604300 Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525335001, 92525335002, 92525335003, 92525335005

METHOD BLANK: 3183609 Matrix: Water
Associated Lab Samples: 92525335001, 92525335002, 92525335003, 92525335005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/04/21 14:27	

LABORATORY CONTROL SAMPLE: 3183610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	394	98	90-111	

SAMPLE DUPLICATE: 3183611

Parameter	Units	92525102001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	175	171	2	10	

SAMPLE DUPLICATE: 3183612

Parameter	Units	92524831010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	513	520	1	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604527
QC Batch Method: SM 2450C-2011
Analysis Method: SM 2450C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525335007, 92525335008, 92525335009

METHOD BLANK: 3184654 Matrix: Water
Associated Lab Samples: 92525335007, 92525335008, 92525335009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/05/21 11:03	

LABORATORY CONTROL SAMPLE: 3184655

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	375	94	90-111	

SAMPLE DUPLICATE: 3184656

Parameter	Units	92525799001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2090	1960	6	10	

SAMPLE DUPLICATE: 3184657

Parameter	Units	92525341004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	167	152	9	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604626
QC Batch Method: SM 2450C-2011
Analysis Method: SM 2450C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525335012, 92525335013

METHOD BLANK: 3185317 Matrix: Water
Associated Lab Samples: 92525335012, 92525335013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/05/21 15:33	

LABORATORY CONTROL SAMPLE: 3185318

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	390	98	90-111	

SAMPLE DUPLICATE: 3185319

Parameter	Units	92525822001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	274	290	6	10	

SAMPLE DUPLICATE: 3185328

Parameter	Units	92524831016 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	325	354	9	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604764
QC Batch Method: SM 2450C-2011
Analysis Method: SM 2450C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525335014, 92525335016, 92525335017, 92525335018, 92525335019, 92525335020, 92525335021, 92525335022, 92525335023

METHOD BLANK: 3186295 Matrix: Water
Associated Lab Samples: 92525335014, 92525335016, 92525335017, 92525335018, 92525335019, 92525335020, 92525335021, 92525335022, 92525335023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/06/21 13:06	

LABORATORY CONTROL SAMPLE: 3186296

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	368	92	90-111	

SAMPLE DUPLICATE: 3186298

Parameter	Units	92525335021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	102	101	1	10	

SAMPLE DUPLICATE: 3186336

Parameter	Units	92525919008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	267	283	6	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604765 | Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92525335011, 92525335015, 92525335024

METHOD BLANK: 3186310 Matrix: Water
Associated Lab Samples: 92525335011, 92525335015, 92525335024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	03/06/21 12:29	

LABORATORY CONTROL SAMPLE: 3186311

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	371	93	90-111	

SAMPLE DUPLICATE: 3186312

Parameter	Units	92525346009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	217	220	1	10	

SAMPLE DUPLICATE: 3186313

Parameter	Units	92525824003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	45.0	61.0	30	10	D6

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REPORT OF LABORATORY ANALYSIS

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(770)734-4200

QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 604544
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92525335001, 92525335002, 92525335003, 92525335005, 92525335006, 92525335007, 92525335008, 92525335009

METHOD BLANK: 3184710 Matrix: Water
Associated Lab Samples: 92525335001, 92525335002, 92525335003, 92525335005, 92525335006, 92525335007, 92525335008, 92525335009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/06/21 20:08	
Fluoride	mg/L	ND	0.10	0.050	03/06/21 20:08	
Sulfate	mg/L	ND	1.0	0.50	03/06/21 20:08	

LABORATORY CONTROL SAMPLE: 3184711

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	2.5	98	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3184712 3184713

Parameter	Units	92525335001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.3	50	50	53.4	53.9	98	99	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	104	105	90-110	1	10	
Sulfate	mg/L	2.3	50	50	51.8	52.4	99	100	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3184714 3184715

Parameter	Units	92525341001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.5	50	50	54.6	54.8	98	98	90-110	0	10	
Fluoride	mg/L	0.18	2.5	2.5	3.3	3.3	124	125	90-110	1	10	M1
Sulfate	mg/L	94.2	50	50	135	135	81	82	90-110	0	10	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 606455
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92525335011, 92525335012, 92525335013, 92525335014, 92525335015, 92525335016, 92525335017, 92525335018

METHOD BLANK: 3195134 Matrix: Water
Associated Lab Samples: 92525335011, 92525335012, 92525335013, 92525335014, 92525335015, 92525335016, 92525335017, 92525335018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/13/21 12:45	
Fluoride	mg/L	ND	0.10	0.050	03/13/21 12:45	
Sulfate	mg/L	ND	1.0	0.50	03/13/21 12:45	

LABORATORY CONTROL SAMPLE: 3195135

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.8	100	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	52.8	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195136 3195137

Parameter	Units	92525912007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	50.5	51.0	101	102	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	102	103	90-110	1	10	
Sulfate	mg/L	ND	50	50	53.6	54.2	107	108	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195138 3195139

Parameter	Units	92525919009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.6	50	50	54.1	53.7	105	104	90-110	1	10	
Fluoride	mg/L	0.12	2.5	2.5	2.8	2.8	106	105	90-110	1	10	
Sulfate	mg/L	39.2	50	50	95.4	95.1	112	112	90-110	0	10	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES
Pace Project No.: 92525335

QC Batch: 606456
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92525335019, 92525335020, 92525335021, 92525335022, 92525335023, 92525335024

METHOD BLANK: 3195140 Matrix: Water
Associated Lab Samples: 92525335019, 92525335020, 92525335021, 92525335022, 92525335023, 92525335024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/13/21 20:29	
Fluoride	mg/L	ND	0.10	0.050	03/13/21 20:29	
Sulfate	mg/L	ND	1.0	0.50	03/13/21 20:29	

LABORATORY CONTROL SAMPLE: 3195141

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.5	97	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	51.4	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195142 3195143

Parameter	Units	92525335019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	0.99J	50	50	52.8	52.3	104	103	90-110	1	10	
Fluoride	mg/L	0.10	2.5	2.5	2.7	2.7	106	104	90-110	2	10	
Sulfate	mg/L	9.6	50	50	65.5	64.7	112	110	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3195144 3195145

Parameter	Units	92525346005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	16.6	50	50	66.4	68.7	100	104	90-110	3	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	98	103	90-110	5	10	
Sulfate	mg/L	88.8	50	50	115	117	53	56	90-110	1	10	M1

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REPORT OF LABORATORY ANALYSIS

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Peachtree Corners, GA 30092
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QUALIFIERS

Project: YATES
Pace Project No.: 92525335

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.

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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES
Pace Project No.: 92525335

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525335001	**YGWA-5I**				
92525335002	**YGWA-5D**				
92525335005	**YGWA-14S**				
92525335006	**YGWA-30I**				
92525335011	**YGWA-40**				
92525335012	**YGWA-17S**				
92525335013	**YGWA-18S**				
92525335014	**YGWA-18I**				
92525335015	**YGWA-39**				
92525335016	**YGWA-1D (030321)**				
92525335017	**YGWA-1I (030321)**				
92525335018	**YGWA-2I (030321)**				
92525335019	**YGWA-3I (030321)**				
92525335020	**YGWA-3D (030321)**				
92525335022	**YGWA-4I**				
92525335023	**YGWA-20S**				
92525335024	**YGWA-21I**				
92525335001	**YGWA-5I**	EPA 3010A	604223	EPA 6010D	604309
92525335002	**YGWA-5D**	EPA 3010A	604223	EPA 6010D	604309
92525335003	**DUP-1**	EPA 3010A	604223	EPA 6010D	604309
92525335005	**YGWA-14S**	EPA 3010A	604223	EPA 6010D	604309
92525335006	**YGWA-30I**	EPA 3010A	604223	EPA 6010D	604309
92525335007	**FB-01**	EPA 3010A	604223	EPA 6010D	604309
92525335008	**DUP-01**	EPA 3010A	604223	EPA 6010D	604309
92525335009	**FB-01**	EPA 3010A	604223	EPA 6010D	604309
92525335011	**YGWA-40**	EPA 3010A	604893	EPA 6010D	604969
92525335012	**YGWA-17S**	EPA 3010A	604893	EPA 6010D	604969
92525335013	**YGWA-18S**	EPA 3010A	604893	EPA 6010D	604969
92525335014	**YGWA-18I**	EPA 3010A	604893	EPA 6010D	604969
92525335015	**YGWA-39**	EPA 3010A	604893	EPA 6010D	604969
92525335016	**YGWA-1D (030321)**	EPA 3010A	604893	EPA 6010D	604969
92525335017	**YGWA-1I (030321)**	EPA 3010A	604893	EPA 6010D	604969
92525335018	**YGWA-2I (030321)**	EPA 3010A	604893	EPA 6010D	604969
92525335019	**YGWA-3I (030321)**	EPA 3010A	604893	EPA 6010D	604969
92525335020	**YGWA-3D (030321)**	EPA 3010A	604893	EPA 6010D	604969
92525335021	**EB-02 (03032021)**	EPA 3010A	604893	EPA 6010D	604969
92525335022	**YGWA-4I**	EPA 3010A	604893	EPA 6010D	604969
92525335023	**YGWA-20S**	EPA 3010A	604893	EPA 6010D	604969
92525335024	**YGWA-21I**	EPA 3010A	604893	EPA 6010D	604969
92525335001	**YGWA-5I**	EPA 3005A	604224	EPA 6020B	604329
92525335002	**YGWA-5D**	EPA 3005A	604224	EPA 6020B	604329
92525335003	**DUP-1**	EPA 3005A	604224	EPA 6020B	604329
92525335005	**YGWA-14S**	EPA 3005A	604224	EPA 6020B	604329
92525335006	**YGWA-30I**	EPA 3005A	604224	EPA 6020B	604329
92525335007	**FB-01**	EPA 3005A	604224	EPA 6020B	604329
92525335008	**DUP-01**	EPA 3005A	604224	EPA 6020B	604329
92525335009	**FB-01**	EPA 3005A	604224	EPA 6020B	604329

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES
Pace Project No.: 92525335

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525335011	**YGWA-40**	EPA 3005A	604916	EPA 6020B	605023
92525335012	**YGWA-17S**	EPA 3005A	604916	EPA 6020B	605023
92525335013	**YGWA-18S**	EPA 3005A	604916	EPA 6020B	605023
92525335014	**YGWA-18I**	EPA 3005A	604916	EPA 6020B	605023
92525335015	**YGWA-39**	EPA 3005A	604916	EPA 6020B	605023
92525335016	**YGWA-1D (030321)**	EPA 3005A	604916	EPA 6020B	605023
92525335017	**YGWA-1I (030321)**	EPA 3005A	604916	EPA 6020B	605023
92525335018	**YGWA-2I (030321)**	EPA 3005A	604916	EPA 6020B	605023
92525335019	**YGWA-3I (030321)**	EPA 3005A	604916	EPA 6020B	605023
92525335020	**YGWA-3D (030321)**	EPA 3005A	604916	EPA 6020B	605023
92525335021	**EB-02 (03032021)**	EPA 3005A	604916	EPA 6020B	605023
92525335022	**YGWA-4I**	EPA 3005A	604916	EPA 6020B	605023
92525335023	**YGWA-20S**	EPA 3005A	604916	EPA 6020B	605023
92525335024	**YGWA-21I**	EPA 3005A	604916	EPA 6020B	605023
92525335001	**YGWA-5I**	EPA 7470A	604308	EPA 7470A	604504
92525335002	**YGWA-5D**	EPA 7470A	604308	EPA 7470A	604504
92525335003	**DUP-1**	EPA 7470A	604308	EPA 7470A	604504
92525335007	**FB-01**	EPA 7470A	604308	EPA 7470A	604504
92525335008	**DUP-01**	EPA 7470A	604308	EPA 7470A	604504
92525335009	**FB-01**	EPA 7470A	604308	EPA 7470A	604504
92525335011	**YGWA-40**	EPA 7470A	604928	EPA 7470A	605029
92525335012	**YGWA-17S**	EPA 7470A	604928	EPA 7470A	605029
92525335013	**YGWA-18S**	EPA 7470A	604928	EPA 7470A	605029
92525335014	**YGWA-18I**	EPA 7470A	604928	EPA 7470A	605029
92525335015	**YGWA-39**	EPA 7470A	604928	EPA 7470A	605029
92525335021	**EB-02 (03032021)**	EPA 7470A	604928	EPA 7470A	605029
92525335022	**YGWA-4I**	EPA 7470A	604928	EPA 7470A	605029
92525335023	**YGWA-20S**	EPA 7470A	604928	EPA 7470A	605029
92525335024	**YGWA-21I**	EPA 7470A	604928	EPA 7470A	605029
92525335001	**YGWA-5I**	SM 2450C-2011	604300		
92525335002	**YGWA-5D**	SM 2450C-2011	604300		
92525335003	**DUP-1**	SM 2450C-2011	604300		
92525335005	**YGWA-14S**	SM 2450C-2011	604300		
92525335006	**YGWA-30I**	SM 2450C-2011	604206		
92525335007	**FB-01**	SM 2450C-2011	604527		
92525335008	**DUP-01**	SM 2450C-2011	604527		
92525335009	**FB-01**	SM 2450C-2011	604527		
92525335011	**YGWA-40**	SM 2450C-2011	604765		
92525335012	**YGWA-17S**	SM 2450C-2011	604626		
92525335013	**YGWA-18S**	SM 2450C-2011	604626		
92525335014	**YGWA-18I**	SM 2450C-2011	604764		
92525335015	**YGWA-39**	SM 2450C-2011	604765		
92525335016	**YGWA-1D (030321)**	SM 2450C-2011	604764		
92525335017	**YGWA-1I (030321)**	SM 2450C-2011	604764		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES
Pace Project No.: 92525335

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525335018	YGWA-2I (030321)	SM 2450C-2011	604764		
92525335019	YGWA-3I (030321)	SM 2450C-2011	604764		
92525335020	YGWA-3D (030321)	SM 2450C-2011	604764		
92525335021	EB-02 (03032021)	SM 2450C-2011	604764		
92525335022	YGWA-4I	SM 2450C-2011	604764		
92525335023	YGWA-20S	SM 2450C-2011	604764		
92525335024	YGWA-21I	SM 2450C-2011	604765		
92525335001	YGWA-5I	EPA 300.0 Rev 2.1 1993	604544		
92525335002	YGWA-5D	EPA 300.0 Rev 2.1 1993	604544		
92525335003	DUP-1	EPA 300.0 Rev 2.1 1993	604544		
92525335005	YGWA-14S	EPA 300.0 Rev 2.1 1993	604544		
92525335006	YGWA-30I	EPA 300.0 Rev 2.1 1993	604544		
92525335007	FB-01	EPA 300.0 Rev 2.1 1993	604544		
92525335008	DUP-01	EPA 300.0 Rev 2.1 1993	604544		
92525335009	FB-01	EPA 300.0 Rev 2.1 1993	604544		
92525335011	YGWA-40	EPA 300.0 Rev 2.1 1993	606455		
92525335012	YGWA-17S	EPA 300.0 Rev 2.1 1993	606455		
92525335013	YGWA-18S	EPA 300.0 Rev 2.1 1993	606455		
92525335014	YGWA-18I	EPA 300.0 Rev 2.1 1993	606455		
92525335015	YGWA-39	EPA 300.0 Rev 2.1 1993	606455		
92525335016	YGWA-1D (030321)	EPA 300.0 Rev 2.1 1993	606455		
92525335017	YGWA-1I (030321)	EPA 300.0 Rev 2.1 1993	606455		
92525335018	YGWA-2I (030321)	EPA 300.0 Rev 2.1 1993	606455		
92525335019	YGWA-3I (030321)	EPA 300.0 Rev 2.1 1993	606456		
92525335020	YGWA-3D (030321)	EPA 300.0 Rev 2.1 1993	606456		
92525335021	EB-02 (03032021)	EPA 300.0 Rev 2.1 1993	606456		
92525335022	YGWA-4I	EPA 300.0 Rev 2.1 1993	606456		
92525335023	YGWA-20S	EPA 300.0 Rev 2.1 1993	606456		
92525335024	YGWA-21I	EPA 300.0 Rev 2.1 1993	606456		

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia power

Project #: WO# : 92525335

92525335

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☑ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: MT 3/31/21

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other

Biological Tissue Frozen? ☐ Yes ☑ No ☐ N/A

Thermometer: ☐ IR Gun ID: 230 ☑ Wet ☐ Blue ☐ None

Type of Ice:

Cooler Temp: 4.0 **Correction Factor:** Add/Subtract (°C) ±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): 4.0

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

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 2 of 2
	Document No.: F-CAR-CS-033-Rev.07	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#: 92525335

PM: KLH1 Due Date: 03/16/21

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)	BP4C-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 Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 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)	BPIN	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				
2																									2				
3																									2				
4																									2				
5																									2				
6																									2				
7																									2				
8																									2				
9																									2				
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 DEHNR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

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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.

Page : 1 Of 4

COC 1 of 1

Section A
Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Atlanta, GA 30114
Email:
Phone: (770)384-6526 Fax:
Requested Due Date:

Section B
Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates AMA
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)
1		WT																	X	X	X	X	
2		WT																	X	X	X	X	
3		WT																	X	X	X	X	
4	YGWA-4I	WT																	X	X	X	X	
5	~~YGWA-5I~~ YGWA-5I	WT		3/2	1405				5	1			1						X	X	X	X	pH: 5.63
6	YGWA-5D YGWA-5D	WT		3/2	1440				5	1			1						X	X	X	X	pH: 7.15
7	YGWA-17S DUP-1	WT		3/2	-				5	1			1						X	X	X	X	
8	~~YGWA-18S~~	WT																	X	X	X	X	
9	YGWA-18I	WT																	X	X	X	X	
10	YGWA-20S	WT																	X	X	X	X	
11	~~YGWA-24I~~	WT																	X	X	X	X	
12	YGWC-33S	WT																	X	X	X	X	

92525335

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)
		03/02/2021	1600		3.2.21	1600				
		3-2-21	1730		3/2/21	1730	4.0	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Peter Argyrakis
SIGNATURE of SAMPLER:
DATE Signed: 03/02/2021

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Page : 2 of 4

COC 1 - 06

Section A
Required Client Information:

Company: Georgia Power
Address: 1070 Bridge Mill Ave
Atlanta, GA 30114
Email:
Phone: (770)384-6526 Fax:
Requested Due Date:

Section B
Required Project Information:

Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates APWP Up Gradient
Project #:

Section C
Invoice Information:

Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)
1		WT																	X	X	X	X	pH
2		WT																	X	X	X	X	
3		WT																	X	X	X	X	
4	YGWA-47	WT		3/1	1210				5		/								X	X	X	X	
5	~~YGWC-50~~	WT																	X	X	X	X	pH 5.48
6	~~YGWC-44~~	WT																	X	X	X	X	
7	~~YGWC-45~~	WT																	X	X	X	X	
8	~~YGWC-46A~~	WT																	X	X	X	X	
9																							
10																							
11																							
12																							

MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		03/02/2021	1530		3-2-21	1530				
		3-2-21	1730		3/2/21	1730	4.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Reiga Argyrakis

SIGNATURE of SAMPLER:

DATE Signed: 03/02/2021

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

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Page : 3 of 4

COC 1 - UG

Section A
Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Marietta, GA 30114
Email:
Phone: (770)384-6526 Fax
Requested Due Date:

Section B
Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates Ash Pond Upgradient
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: Y/N	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)
~~YGWA-4S~~	WT																	X	X	X	X	
~~YGWA-4I~~	WT																	X	X	X	X	
~~YGWA-4D~~	WT																	X	X	X	X	
~~YGWA-3S~~	WT																	X	X	X	X	
~~YGWA-3D~~	WT																	X	X	X	X	
YGWA-14S	WT		3/2	1126				5	/		/							X	X	X	X	pH 5.49
YGWA-30I	WT		3/2	1125				5	/		/							X	X	X	X	pH 5.78
~~YGWC-26S~~ FB-01	WT		3/2	1130				5	/		/							X	X	X	X	—
~~YGWC-26I~~ DUP-01	WT		3/2	—				5	/		/							X	X	X	X	—
~~YGWC-27S~~	WT																	X	X	X	X	
~~YGWC-27I~~	WT																	X	X	X	X	
~~YGWC-29S~~	WT																	X	X	X	X	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	[signature]	3/2/21	17:30	[signature]	3/2/21	1730

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

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Katie Rapkievich
SIGNATURE of SAMPLER: [signature]
DATE Signed: 3/2/2021

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www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 4 Of 4

COC 1 (updradient)

Section A — Required Client Information:	Section B — Required Project Information:	Section C — Invoice Information:
Company: Georgia Power	Report To: Becky Steever	Attention:
Address: 1070 Bridge Mill Ave	Copy To:	Company Name:
n, GA 30114		Address:
Phone: (770)384-6526 Fax:	Purchase Order #:	Pace Quote:
Requested Due Date:	Project Name: Yates Gypsum LF ~~Up Grad.~~	Pace Project Manager: kevin.herring@pacelabs.com,
	Project #:	Pace Profile #: 10840

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS	Cl, F, SO4	App III/III/V Metals	RAD 9315/9320	Residual Chlorine (Y/N)
	WT																	X	X	X	X	
	WT																	X	X	X	X	
FB-01	WT		3/2	1520				5	✓		✓							X	X	X	X	
GWA-2	WT		3/2	1510				5	✓		✓							X	X	X	X	PH 5.42
~~GWC-6R~~	WT																	X	X	X	X	
~~GWC-6R~~	WT																	X	X	X	X	
~~GWC-1R~~	WT																	X	X	X	X	
~~GWC-2R~~	WT																	X	X	X	X	
~~GWC-4R~~	WT																	X	X	X	X	
~~GWC-8R~~	WT																	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)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
		3/2/21	1520		3.2.21	1520				
		3.2.21	1736		3/4/21	1730	4.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER: DATE Signed: 3/2/21

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

March 28, 2021

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

RE: Project: YATES RADS
Pace Project No.: 92525214

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between March 02, 2021 and March 05, 2021. 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,

Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: YATES RADS
Pace Project No.: 92525214

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 #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: YATES RADS
Pace Project No.: 92525214

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92525214001	**YGWA-5I**	Water	03/02/21 14:05	03/02/21 17:30
92525214002	**YGWA-5D**	Water	03/02/21 14:40	03/02/21 17:30
92525214003	**DUP-1**	Water	03/02/21 00:00	03/02/21 17:30
92525214004	**YGWA-47**	Water	03/01/21 12:10	03/02/21 17:30
92525214005	**YGWA-14S**	Water	03/02/21 11:20	03/02/21 17:30
92525214006	**YGWA-30I**	Water	03/01/21 16:25	03/02/21 17:30
92525214007	**FB-01**	Water	03/02/21 11:30	03/02/21 17:30
92525214008	**DUP-01**	Water	03/02/21 00:00	03/02/21 17:30
92525214009	**FB-01**	Water	03/02/21 15:20	03/02/21 17:30
92525214010	**GWA-2**	Water	03/02/21 15:10	03/02/21 17:30
92525214011	**YGWA-40**	Water	03/04/21 10:10	03/05/21 09:20
92525214012	**YGWA-17S**	Water	03/03/21 12:20	03/05/21 09:20
92525214013	**YGWA-18S**	Water	03/03/21 13:50	03/05/21 09:20
92525214014	**YGWA-18I**	Water	03/03/21 15:00	03/05/21 09:20
92525214015	**YGWA-39**	Water	03/04/21 10:20	03/05/21 09:20
92525214016	**YGWA-1D (030321)**	Water	03/03/21 14:25	03/05/21 09:20
92525214017	**YGWA-1I (030321)**	Water	03/03/21 13:35	03/05/21 09:20
92525214018	**YGWA-2I (030321)**	Water	03/03/21 11:45	03/05/21 09:20
92525214019	**YGWA-3I (030321)**	Water	03/03/21 17:00	03/05/21 09:20
92525214020	**YGWA-3D (030321)**	Water	03/03/21 16:00	03/05/21 09:20
92525214021	**EB-02 (03032021)**	Water	03/03/21 17:15	03/05/21 09:20
92525214022	**YGWA-4I**	Water	03/03/21 10:35	03/05/21 09:20
92525214023	**YGWA-20S**	Water	03/03/21 09:40	03/05/21 09:20
92525214024	**YGWA-21I**	Water	03/03/21 09:35	03/05/21 09:20

Pace Analytical Services, LLC
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SAMPLE ANALYTE COUNT

Project: YATES RADS
Pace Project No.: 92525214

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525214001	**YGWA-5I**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214002	**YGWA-5D**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214003	**DUP-1**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214004	**YGWA-47**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214005	**YGWA-14S**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214006	**YGWA-30I**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214007	**FB-01**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214008	**DUP-01**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214009	**FB-01**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214010	**GWA-2**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214011	**YGWA-40**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214012	**YGWA-17S**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214013	**YGWA-18S**	EPA 9315	LAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: YATES RADS
Pace Project No.: 92525214

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214014	**YGWA-18I**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214015	**YGWA-39**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214016	**YGWA-1D (030321)**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214017	**YGWA-1I (030321)**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214018	**YGWA-2I (030321)**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214019	**YGWA-3I (030321)**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214020	**YGWA-3D (030321)**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214021	**EB-02 (03032021)**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214022	**YGWA-4I**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214023	**YGWA-20S**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525214024	**YGWA-21I**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: YATES RADS
Pace Project No.: 92525214

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525214001	**YGWA-5I**					
EPA 9315	Radium-226	0.114 ± 0.190 (0.428) C:68% T:NA	pCi/L		03/22/21 08:37	
EPA 9320	Radium-228	0.465 ± 0.327 (0.633) C:78% T:92%	pCi/L		03/18/21 12:44	
Total Radium Calculation	Total Radium	0.579 ± 0.517 (1.06)	pCi/L		03/26/21 14:34	
92525214002	**YGWA-5D**					
EPA 9315	Radium-226	1.21 ± 0.344 (0.294) C:69% T:NA	pCi/L		03/22/21 08:37	
EPA 9320	Radium-228	0.457 ± 0.363 (0.727) C:76% T:95%	pCi/L		03/18/21 12:45	
Total Radium Calculation	Total Radium	1.67 ± 0.707 (1.02)	pCi/L		03/26/21 14:34	
92525214003	**DUP-1**					
EPA 9315	Radium-226	0.838 ± 0.268 (0.250) C:76% T:NA	pCi/L		03/22/21 08:37	
EPA 9320	Radium-228	0.784 ± 0.426 (0.783) C:78% T:87%	pCi/L		03/18/21 12:45	
Total Radium Calculation	Total Radium	1.62 ± 0.694 (1.03)	pCi/L		03/26/21 14:34	
92525214004	**YGWA-47**					
EPA 9315	Radium-226	0.387 ± 0.184 (0.224) C:64% T:NA	pCi/L		03/22/21 08:40	
EPA 9320	Radium-228	0.816 ± 0.389 (0.666) C:75% T:89%	pCi/L		03/18/21 12:45	
Total Radium Calculation	Total Radium	1.20 ± 0.573 (0.890)	pCi/L		03/26/21 14:37	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES RADS
Pace Project No.: 92525214

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525214005	**YGWA-14S**					
EPA 9315	Radium-226	0.283 ± 0.267 (0.565) C:72% T:NA	pCi/L		03/22/21 08:41	
EPA 9320	Radium-228	0.427 ± 0.338 (0.673) C:76% T:92%	pCi/L		03/18/21 12:45	
Total Radium Calculation	Total Radium	0.710 ± 0.605 (1.24)	pCi/L		03/26/21 14:37	
92525214006	**YGWA-30I**					
EPA 9315	Radium-226	0.0562 ± 0.172 (0.408) C:79% T:NA	pCi/L		03/22/21 08:41	
EPA 9320	Radium-228	0.356 ± 0.278 (0.545) C:76% T:92%	pCi/L		03/18/21 12:46	
Total Radium Calculation	Total Radium	0.412 ± 0.450 (0.953)	pCi/L		03/26/21 14:37	
92525214007	**FB-01**					
EPA 9315	Radium-226	0.121 ± 0.131 (0.267) C:78% T:NA	pCi/L		03/22/21 08:41	
EPA 9320	Radium-228	0.512 ± 0.332 (0.620) C:73% T:88%	pCi/L		03/18/21 12:46	
Total Radium Calculation	Total Radium	0.633 ± 0.463 (0.887)	pCi/L		03/26/21 14:37	
92525214008	**DUP-01**					
EPA 9315	Radium-226	0.118 ± 0.120 (0.237) C:78% T:NA	pCi/L		03/22/21 08:48	
EPA 9320	Radium-228	0.809 ± 0.394 (0.692) C:79% T:90%	pCi/L		03/18/21 12:46	
Total Radium Calculation	Total Radium	0.927 ± 0.514 (0.929)	pCi/L		03/26/21 14:37	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES RADS
Pace Project No.: 92525214

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525214009	**FB-01**					
EPA 9315	Radium-226	-0.00506 ± 0.0722 (0.204) C:84% T:NA	pCi/L		03/22/21 08:48	
EPA 9320	Radium-228	0.675 ± 0.361 (0.652) C:76% T:96%	pCi/L		03/18/21 12:46	
Total Radium Calculation	Total Radium	0.675 ± 0.433 (0.856)	pCi/L		03/26/21 14:37	
92525214010	**GWA-2**					
EPA 9315	Radium-226	0.170 ± 0.157 (0.313) C:75% T:NA	pCi/L		03/22/21 08:47	
EPA 9320	Radium-228	0.778 ± 0.413 (0.738) C:76% T:81%	pCi/L		03/18/21 12:46	
Total Radium Calculation	Total Radium	0.948 ± 0.570 (1.05)	pCi/L		03/26/21 14:37	
92525214011	**YGWA-40**					
EPA 9315	Radium-226	0.268 ± 0.187 (0.319) C:74% T:NA	pCi/L		03/15/21 09:11	
EPA 9320	Radium-228	0.550 ± 0.416 (0.827) C:81% T:90%	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	0.818 ± 0.603 (1.15)	pCi/L		03/22/21 10:37	
92525214012	**YGWA-17S**					
EPA 9315	Radium-226	0.192 ± 0.156 (0.276) C:74% T:NA	pCi/L		03/15/21 09:11	
EPA 9320	Radium-228	0.398 ± 0.319 (0.627) C:80% T:89%	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	0.590 ± 0.475 (0.903)	pCi/L		03/22/21 10:37	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES RADS
Pace Project No.: 92525214

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525214013	**YGWA-18S**					
EPA 9315	Radium-226	0.141 ± 0.166 (0.344) C:59% T:NA	pCi/L		03/15/21 09:16	
EPA 9320	Radium-228	0.211 ± 0.322 (0.695) C:73% T:89%	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	0.352 ± 0.488 (1.04)	pCi/L		03/22/21 10:37	
92525214014	**YGWA-18I**					
EPA 9315	Radium-226	0.381 ± 0.207 (0.351) C:65% T:NA	pCi/L		03/15/21 09:16	
EPA 9320	Radium-228	0.184 ± 0.282 (0.608) C:76% T:92%	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	0.565 ± 0.489 (0.959)	pCi/L		03/22/21 10:37	
92525214015	**YGWA-39**					
EPA 9315	Radium-226	0.636 ± 0.257 (0.332) C:86% T:NA	pCi/L		03/15/21 09:11	
EPA 9320	Radium-228	-0.00538 ± 0.293 (0.687) C:78% T:93%	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	0.636 ± 0.550 (1.02)	pCi/L		03/22/21 10:37	
92525214016	**YGWA-1D (030321)**					
EPA 9315	Radium-226	0.265 ± 0.193 (0.356) C:78% T:NA	pCi/L		03/15/21 09:13	
EPA 9320	Radium-228	0.227 ± 0.376 (0.819) C:76% T:90%	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	0.492 ± 0.569 (1.18)	pCi/L		03/22/21 10:37	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES RADS
Pace Project No.: 92525214

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525214017	**YGWA-1I (030321)**					
EPA 9315	Radium-226	0.0715 ± 0.137 (0.315) C:73% T:NA	pCi/L		03/15/21 09:13	
EPA 9320	Radium-228	0.0339 ± 0.361 (0.831) C:76% T:84%	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	0.105 ± 0.498 (1.15)	pCi/L		03/26/21 13:42	
92525214018	**YGWA-2I (030321)**					
EPA 9315	Radium-226	0.236 ± 0.183 (0.351) C:83% T:NA	pCi/L		03/15/21 09:13	
EPA 9320	Radium-228	0.223 ± 0.344 (0.744) C:72% T:93%	pCi/L		03/15/21 16:10	
Total Radium Calculation	Total Radium	0.459 ± 0.527 (1.10)	pCi/L		03/26/21 13:42	
92525214019	**YGWA-3I (030321)**					
EPA 9315	Radium-226	1.19 ± 0.315 (0.200) C:81% T:NA	pCi/L		03/22/21 09:34	
EPA 9320	Radium-228	0.837 ± 0.390 (0.655) C:82% T:90%	pCi/L		03/19/21 15:13	
Total Radium Calculation	Total Radium	2.03 ± 0.705 (0.855)	pCi/L		03/26/21 13:42	
92525214020	**YGWA-3D (030321)**					
EPA 9315	Radium-226	1.88 ± 0.434 (0.259) C:80% T:NA	pCi/L		03/22/21 08:28	
EPA 9320	Radium-228	1.70 ± 0.544 (0.701) C:74% T:90%	pCi/L		03/19/21 15:13	
Total Radium Calculation	Total Radium	3.58 ± 0.978 (0.960)	pCi/L		03/26/21 13:42	

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SUMMARY OF DETECTION

Project: YATES RADS
Pace Project No.: 92525214

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525214021	**EB-02 (03032021)**					
EPA 9315	Radium-226	0.0547 ± 0.0827 (0.178) C:78% T:NA	pCi/L		03/22/21 08:29	
EPA 9320	Radium-228	0.157 ± 0.333 (0.736) C:76% T:95%	pCi/L		03/19/21 15:13	
Total Radium Calculation	Total Radium	0.212 ± 0.416 (0.914)	pCi/L		03/26/21 13:42	
92525214022	**YGWA-4I**					
EPA 9315	Radium-226	0.783 ± 0.243 (0.164) C:76% T:NA	pCi/L		03/22/21 08:30	
EPA 9320	Radium-228	0.217 ± 0.319 (0.687) C:79% T:90%	pCi/L		03/19/21 15:13	
Total Radium Calculation	Total Radium	1.000 ± 0.562 (0.851)	pCi/L		03/26/21 13:42	
92525214023	**YGWA-20S**					
EPA 9315	Radium-226	0.133 ± 0.114 (0.212) C:89% T:NA	pCi/L		03/22/21 08:30	
EPA 9320	Radium-228	-0.163 ± 0.291 (0.711) C:79% T:96%	pCi/L		03/19/21 15:13	
Total Radium Calculation	Total Radium	0.133 ± 0.405 (0.923)	pCi/L		03/26/21 13:42	
92525214024	**YGWA-21I**					
EPA 9315	Radium-226	0.861 ± 0.270 (0.318) C:89% T:NA	pCi/L		03/22/21 08:31	
EPA 9320	Radium-228	0.338 ± 0.394 (0.829) C:72% T:86%	pCi/L		03/19/21 15:15	
Total Radium Calculation	Total Radium	1.20 ± 0.664 (1.15)	pCi/L		03/26/21 13:56	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525214

Sample: YGWA-5I **Lab ID: 92525214001** Collected: 03/02/21 14:05 Received: 03/02/21 17:30 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	**0.114 ± 0.190 (0.428) C:68% T:NA**	pCi/L	03/22/21 08:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.465 ± 0.327 (0.633) C:78% T:92%**	pCi/L	03/18/21 12:44	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.579 ± 0.517 (1.06)**	pCi/L	03/26/21 14:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525214

Sample: YGWA-5D **Lab ID: 92525214002** Collected: 03/02/21 14:40 Received: 03/02/21 17:30 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	**1.21 ± 0.344 (0.294) C:69% T:NA**	pCi/L	03/22/21 08:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.457 ± 0.363 (0.727) C:76% T:95%**	pCi/L	03/18/21 12:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.67 ± 0.707 (1.02)**	pCi/L	03/26/21 14:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525214

Sample: DUP-1 **Lab ID: 92525214003** Collected: 03/02/21 00:00 Received: 03/02/21 17:30 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	**0.838 ± 0.268 (0.250) C:76% T:NA**	pCi/L	03/22/21 08:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.784 ± 0.426 (0.783) C:78% T:87%**	pCi/L	03/18/21 12:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.62 ± 0.694 (1.03)**	pCi/L	03/26/21 14:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525214

Sample: YGWA-47 **Lab ID: 92525214004** Collected: 03/01/21 12:10 Received: 03/02/21 17:30 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	**0.387 ± 0.184 (0.224) C:64% T:NA**	pCi/L	03/22/21 08:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.816 ± 0.389 (0.666) C:75% T:89%**	pCi/L	03/18/21 12:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.20 ± 0.573 (0.890)**	pCi/L	03/26/21 14:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525214

Sample: YGWA-14S **Lab ID: 92525214005** Collected: 03/02/21 11:20 Received: 03/02/21 17:30 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	**0.283 ± 0.267 (0.565) C:72% T:NA**	pCi/L	03/22/21 08:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.427 ± 0.338 (0.673) C:76% T:92%**	pCi/L	03/18/21 12:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.710 ± 0.605 (1.24)**	pCi/L	03/26/21 14:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525214

Sample: YGWA-30I **Lab ID: 92525214006** Collected: 03/01/21 16:25 Received: 03/02/21 17:30 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	**0.0562 ± 0.172 (0.408) C:79% T:NA**	pCi/L	03/22/21 08:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.356 ± 0.278 (0.545) C:76% T:92%**	pCi/L	03/18/21 12:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.412 ± 0.450 (0.953)**	pCi/L	03/26/21 14:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525214

Sample: FB-01 **Lab ID: 92525214007** Collected: 03/02/21 11:30 Received: 03/02/21 17:30 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	**0.121 ± 0.131 (0.267) C:78% T:NA**	pCi/L	03/22/21 08:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.512 ± 0.332 (0.620) C:73% T:88%**	pCi/L	03/18/21 12:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.633 ± 0.463 (0.887)**	pCi/L	03/26/21 14:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525214

Sample: DUP-01 **Lab ID: 92525214008** Collected: 03/02/21 00:00 Received: 03/02/21 17:30 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	**0.118 ± 0.120 (0.237) C:78% T:NA**	pCi/L	03/22/21 08:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.809 ± 0.394 (0.692) C:79% T:90%**	pCi/L	03/18/21 12:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.927 ± 0.514 (0.929)**	pCi/L	03/26/21 14:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525214

Sample: FB-01 **Lab ID: 92525214009** Collected: 03/02/21 15:20 Received: 03/02/21 17:30 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	**-0.00506 ± 0.0722 (0.204) C:84% T:NA**	pCi/L	03/22/21 08:48	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.675 ± 0.361 (0.652) C:76% T:96%**	pCi/L	03/18/21 12:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.675 ± 0.433 (0.856)**	pCi/L	03/26/21 14:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525214

Sample: GWA-2 **Lab ID: 92525214010** Collected: 03/02/21 15:10 Received: 03/02/21 17:30 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	**0.170 ± 0.157 (0.313) C:75% T:NA**	pCi/L	03/22/21 08:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.778 ± 0.413 (0.738) C:76% T:81%**	pCi/L	03/18/21 12:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.948 ± 0.570 (1.05)**	pCi/L	03/26/21 14:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525214

Sample: YGWA-40 **Lab ID: 92525214011** Collected: 03/04/21 10:10 Received: 03/05/21 09:20 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	**0.268 ± 0.187 (0.319) C:74% T:NA**	pCi/L	03/15/21 09:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.550 ± 0.416 (0.827) C:81% T:90%**	pCi/L	03/15/21 16:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.818 ± 0.603 (1.15)**	pCi/L	03/22/21 10:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525214

Sample: YGWA-17S **Lab ID: 92525214012** Collected: 03/03/21 12:20 Received: 03/05/21 09:20 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	**0.192 ± 0.156 (0.276) C:74% T:NA**	pCi/L	03/15/21 09:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.398 ± 0.319 (0.627) C:80% T:89%**	pCi/L	03/15/21 16:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.590 ± 0.475 (0.903)**	pCi/L	03/22/21 10:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525214

Sample: YGWA-18S **Lab ID: 92525214013** Collected: 03/03/21 13:50 Received: 03/05/21 09:20 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	**0.141 ± 0.166 (0.344) C:59% T:NA**	pCi/L	03/15/21 09:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.211 ± 0.322 (0.695) C:73% T:89%**	pCi/L	03/15/21 16:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.352 ± 0.488 (1.04)**	pCi/L	03/22/21 10:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525214

Sample: YGWA-18I **Lab ID: 92525214014** Collected: 03/03/21 15:00 Received: 03/05/21 09:20 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	**0.381 ± 0.207 (0.351) C:65% T:NA**	pCi/L	03/15/21 09:16	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.184 ± 0.282 (0.608) C:76% T:92%**	pCi/L	03/15/21 16:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.565 ± 0.489 (0.959)**	pCi/L	03/22/21 10:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525214

Sample: YGWA-39 **Lab ID: 92525214015** Collected: 03/04/21 10:20 Received: 03/05/21 09:20 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	**0.636 ± 0.257 (0.332) C:86% T:NA**	pCi/L	03/15/21 09:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.00538 ± 0.293 (0.687) C:78% T:93%**	pCi/L	03/15/21 16:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.636 ± 0.550 (1.02)**	pCi/L	03/22/21 10:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525214

Sample: YGWA-1D (030321) **Lab ID: 92525214016** Collected: 03/03/21 14:25 Received: 03/05/21 09:20 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	**0.265 ± 0.193 (0.356) C:78% T:NA**	pCi/L	03/15/21 09:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.227 ± 0.376 (0.819) C:76% T:90%**	pCi/L	03/15/21 16:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.492 ± 0.569 (1.18)**	pCi/L	03/22/21 10:37	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525214

Sample: YGWA-1I (030321) **Lab ID: 92525214017** Collected: 03/03/21 13:35 Received: 03/05/21 09:20 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	**0.0715 ± 0.137 (0.315) C:73% T:NA**	pCi/L	03/15/21 09:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0339 ± 0.361 (0.831) C:76% T:84%**	pCi/L	03/15/21 16:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.105 ± 0.498 (1.15)**	pCi/L	03/26/21 13:42	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525214

Sample: YGWA-2I (030321) **Lab ID: 92525214018** Collected: 03/03/21 11:45 Received: 03/05/21 09:20 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	**0.236 ± 0.183 (0.351) C:83% T:NA**	pCi/L	03/15/21 09:13	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.223 ± 0.344 (0.744) C:72% T:93%**	pCi/L	03/15/21 16:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.459 ± 0.527 (1.10)**	pCi/L	03/26/21 13:42	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525214

Sample: YGWA-3I (030321) **Lab ID: 92525214019** Collected: 03/03/21 17:00 Received: 03/05/21 09:20 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 ± 0.315 (0.200) C:81% T:NA**	pCi/L	03/22/21 09:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.837 ± 0.390 (0.655) C:82% T:90%**	pCi/L	03/19/21 15:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.03 ± 0.705 (0.855)**	pCi/L	03/26/21 13:42	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525214

Sample: YGWA-3D (030321) **Lab ID: 92525214020** Collected: 03/03/21 16:00 Received: 03/05/21 09:20 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	**1.88 ± 0.434 (0.259) C:80% T:NA**	pCi/L	03/22/21 08:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.70 ± 0.544 (0.701) C:74% T:90%**	pCi/L	03/19/21 15:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.58 ± 0.978 (0.960)**	pCi/L	03/26/21 13:42	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525214

Sample: EB-02 (03032021) **Lab ID: 92525214021** Collected: 03/03/21 17:15 Received: 03/05/21 09:20 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	**0.0547 ± 0.0827 (0.178) C:78% T:NA**	pCi/L	03/22/21 08:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.157 ± 0.333 (0.736) C:76% T:95%**	pCi/L	03/19/21 15:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.212 ± 0.416 (0.914)**	pCi/L	03/26/21 13:42	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525214

Sample: YGWA-4I **Lab ID: 92525214022** Collected: 03/03/21 10:35 Received: 03/05/21 09:20 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	**0.783 ± 0.243 (0.164) C:76% T:NA**	pCi/L	03/22/21 08:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.217 ± 0.319 (0.687) C:79% T:90%**	pCi/L	03/19/21 15:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.000 ± 0.562 (0.851)**	pCi/L	03/26/21 13:42	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525214

Sample: YGWA-20S **Lab ID: 92525214023** Collected: 03/03/21 09:40 Received: 03/05/21 09:20 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	**0.133 ± 0.114 (0.212) C:89% T:NA**	pCi/L	03/22/21 08:30	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.163 ± 0.291 (0.711) C:79% T:96%**	pCi/L	03/19/21 15:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.133 ± 0.405 (0.923)**	pCi/L	03/26/21 13:42	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525214

Sample: YGWA-21I **Lab ID: 92525214024** Collected: 03/03/21 09:35 Received: 03/05/21 09:20 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	**0.861 ± 0.270 (0.318) C:89% T:NA**	pCi/L	03/22/21 08:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.338 ± 0.394 (0.829) C:72% T:86%**	pCi/L	03/19/21 15:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.20 ± 0.664 (1.15)**	pCi/L	03/26/21 13:56	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525214

QC Batch: 437643
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92525214001, 92525214002, 92525214003, 92525214004, 92525214005, 92525214006, 92525214007, 92525214008, 92525214009, 92525214010

METHOD BLANK: 2112540
Matrix: Water
Associated Lab Samples: 92525214001, 92525214002, 92525214003, 92525214004, 92525214005, 92525214006, 92525214007, 92525214008, 92525214009, 92525214010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.387 ± 0.316 (0.633) C:83% T:90%	pCi/L	03/18/21 12:44	

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 RADS
Pace Project No.: 92525214

QC Batch: 437642
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92525214019, 92525214020, 92525214021, 92525214022, 92525214023, 92525214024

METHOD BLANK: 2112539
Matrix: Water
Associated Lab Samples: 92525214019, 92525214020, 92525214021, 92525214022, 92525214023, 92525214024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.219 ± 0.271 (0.570) C:75% T:92%	pCi/L	03/19/21 15:12	

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525214

QC Batch: 437601
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92525214019, 92525214020, 92525214021, 92525214022, 92525214023, 92525214024

METHOD BLANK: 2112394
Matrix: Water
Associated Lab Samples: 92525214019, 92525214020, 92525214021, 92525214022, 92525214023, 92525214024

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0425 ± 0.110 (0.264) C:81% T:NA	pCi/L	03/22/21 08:26	

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525214

QC Batch: 437599 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92525214011, 92525214012, 92525214013, 92525214014, 92525214015, 92525214016, 92525214017, 92525214018

METHOD BLANK: 2112389 Matrix: Water
Associated Lab Samples: 92525214011, 92525214012, 92525214013, 92525214014, 92525214015, 92525214016, 92525214017, 92525214018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.00470 ± 0.0712 (0.214) C:85% T:NA	pCi/L	03/15/21 09:18	

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525214

QC Batch: 437641 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92525214011, 92525214012, 92525214013, 92525214014, 92525214015, 92525214016, 92525214017, 92525214018

METHOD BLANK: 2112538 Matrix: Water
Associated Lab Samples: 92525214011, 92525214012, 92525214013, 92525214014, 92525214015, 92525214016, 92525214017, 92525214018

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.312 ± 0.330 (0.686) C:82% T:90%	pCi/L	03/15/21 16:07	

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525214

QC Batch: 437602 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92525214001, 92525214002, 92525214003, 92525214004, 92525214005, 92525214006, 92525214007, 92525214008, 92525214009, 92525214010

METHOD BLANK: 2112395 Matrix: Water
Associated Lab Samples: 92525214001, 92525214002, 92525214003, 92525214004, 92525214005, 92525214006, 92525214007, 92525214008, 92525214009, 92525214010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0514 ± 0.104 (0.242) C:82% T:NA	pCi/L	03/22/21 08:37	

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: YATES RADS
Pace Project No.: 92525214

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.

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.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES RADS
Pace Project No.: 92525214

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525214001	**YGWA-5I**	EPA 9315	437602		
92525214002	**YGWA-5D**	EPA 9315	437602		
92525214003	**DUP-1**	EPA 9315	437602		
92525214004	**YGWA-47**	EPA 9315	437602		
92525214005	**YGWA-14S**	EPA 9315	437602		
92525214006	**YGWA-30I**	EPA 9315	437602		
92525214007	**FB-01**	EPA 9315	437602		
92525214008	**DUP-01**	EPA 9315	437602		
92525214009	**FB-01**	EPA 9315	437602		
92525214010	**GWA-2**	EPA 9315	437602		
92525214011	**YGWA-40**	EPA 9315	437599		
92525214012	**YGWA-17S**	EPA 9315	437599		
92525214013	**YGWA-18S**	EPA 9315	437599		
92525214014	**YGWA-18I**	EPA 9315	437599		
92525214015	**YGWA-39**	EPA 9315	437599		
92525214016	**YGWA-1D (030321)**	EPA 9315	437599		
92525214017	**YGWA-1I (030321)**	EPA 9315	437599		
92525214018	**YGWA-2I (030321)**	EPA 9315	437599		
92525214019	**YGWA-3I (030321)**	EPA 9315	437601		
92525214020	**YGWA-3D (030321)**	EPA 9315	437601		
92525214021	**EB-02 (03032021)**	EPA 9315	437601		
92525214022	**YGWA-4I**	EPA 9315	437601		
92525214023	**YGWA-20S**	EPA 9315	437601		
92525214024	**YGWA-21I**	EPA 9315	437601		
92525214001	**YGWA-5I**	EPA 9320	437643		
92525214002	**YGWA-5D**	EPA 9320	437643		
92525214003	**DUP-1**	EPA 9320	437643		
92525214004	**YGWA-47**	EPA 9320	437643		
92525214005	**YGWA-14S**	EPA 9320	437643		
92525214006	**YGWA-30I**	EPA 9320	437643		
92525214007	**FB-01**	EPA 9320	437643		
92525214008	**DUP-01**	EPA 9320	437643		
92525214009	**FB-01**	EPA 9320	437643		
92525214010	**GWA-2**	EPA 9320	437643		
92525214011	**YGWA-40**	EPA 9320	437641		
92525214012	**YGWA-17S**	EPA 9320	437641		
92525214013	**YGWA-18S**	EPA 9320	437641		
92525214014	**YGWA-18I**	EPA 9320	437641		
92525214015	**YGWA-39**	EPA 9320	437641		
92525214016	**YGWA-1D (030321)**	EPA 9320	437641		
92525214017	**YGWA-1I (030321)**	EPA 9320	437641		
92525214018	**YGWA-2I (030321)**	EPA 9320	437641		
92525214019	**YGWA-3I (030321)**	EPA 9320	437642		
92525214020	**YGWA-3D (030321)**	EPA 9320	437642		
92525214021	**EB-02 (03032021)**	EPA 9320	437642		
92525214022	**YGWA-4I**	EPA 9320	437642		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES RADS
Pace Project No.: 92525214

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525214023	**YGWA-20S**	EPA 9320	437642		
92525214024	**YGWA-21I**	EPA 9320	437642		
92525214001	**YGWA-5I**	Total Radium Calculation	440666		
92525214002	**YGWA-5D**	Total Radium Calculation	440666		
92525214003	**DUP-1**	Total Radium Calculation	440666		
92525214004	**YGWA-47**	Total Radium Calculation	440668		
92525214005	**YGWA-14S**	Total Radium Calculation	440668		
92525214006	**YGWA-30I**	Total Radium Calculation	440668		
92525214007	**FB-01**	Total Radium Calculation	440668		
92525214008	**DUP-01**	Total Radium Calculation	440668		
92525214009	**FB-01**	Total Radium Calculation	440668		
92525214010	**GWA-2**	Total Radium Calculation	440668		
92525214011	**YGWA-40**	Total Radium Calculation	439752		
92525214012	**YGWA-17S**	Total Radium Calculation	439752		
92525214013	**YGWA-18S**	Total Radium Calculation	439752		
92525214014	**YGWA-18I**	Total Radium Calculation	439752		
92525214015	**YGWA-39**	Total Radium Calculation	439752		
92525214016	**YGWA-1D (030321)**	Total Radium Calculation	439752		
92525214017	**YGWA-1I (030321)**	Total Radium Calculation	440644		
92525214018	**YGWA-2I (030321)**	Total Radium Calculation	440644		
92525214019	**YGWA-3I (030321)**	Total Radium Calculation	440644		
92525214020	**YGWA-3D (030321)**	Total Radium Calculation	440644		
92525214021	**EB-02 (03032021)**	Total Radium Calculation	440644		
92525214022	**YGWA-4I**	Total Radium Calculation	440644		
92525214023	**YGWA-20S**	Total Radium Calculation	440644		
92525214024	**YGWA-21I**	Total Radium Calculation	440647		

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia power

Project #: WO# : 92525214

92525214

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☑ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: MT 3/31/2(

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☑ Other

Biological Tissue Frozen? ☐ Yes ☑ No ☐ N/A

Thermometer: ☐ IR Gun ID: 230 ☑ Wet ☐ Blue ☐ None

Type of Ice:

Cooler Temp: 4.0 **Correction Factor:** Add/Subtract (°C) ±0

Cooler Temp Corrected (°C): 4.0

Temp should be above freezing to 6°C

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

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

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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.

Page : 1 Of 4

COC 1 of 1

Section A
Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Marietta, GA 30114
Email:
Phone: (770)384-6526 Fax:
Requested Due Date:

Section B
Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates AMA
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com
Pace Profile #: 10840

Regulatory Agency
State / Location: GA

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
1		WT																	X	X	X	X		
2		WT																	X	X	X	X		
3		WT																	X	X	X	X		
4	YGWA-4I	WT																	X	X	X	X		
5	~~YGWA-5I~~ YGWA-5I	WT		3/2	1405				3	3	1		1						X	X	X	X		
6	YGWA-5D YGWA-5D	WT		3/2	1440				3	3	1		1						X	X	X	X		
7	YGWA-17S DUP-1	WT		3/2	-				3	3	1		1						X	X	X	X		
8	~~YGWA-18S~~	WT																	X	X	X	X		
9	YGWA-18I	WT																	X	X	X	X		
10	~~YGWA-20S~~	WT																	X	X	X	X		
11	~~YGWA-24I~~	WT																	X	X	X	X		
12	YGWC-32S	WT																	X	X	X	X		

Residual Chlorine (Y/N): 9252514

pH 1 5.63
pH 7.15

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
		03/02/2021	1600		3.2.21	1600					
		3.2.21	1730		3/2/21	1730	4.0	Y	N	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Peter Argyrakis
SIGNATURE of SAMPLER:
DATE Signed: 03/02/2021

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

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 2 Of 4
COC 1 - 06

Section A
Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Acworth, GA 30114
Email:
Phone: (770)384-6526 Fax
Requested Due Date:

Section B
Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates ~~Plant~~ UP Gradient
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	Requested Analysis Filtered (Y/N)
1		WT																X	X	X	X		9252524 pH
2		WT																X	X	X	X		
3		WT																X	X	X	X		
4	YGWA-47	WT		3/1	1210				5			1						X	X	X	X		
5	~~YGWC-60~~	WT																X	X	X	X		pH 5.48
6	~~YGWC-44~~	WT																X	X	X	X		
7	~~YGWC-45~~	WT																X	X	X	X		
8	~~YGWC-45A~~	WT																X	X	X	X		
9																							
10																							
11																							
12																							

MATRIX CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS

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)
		03/02/2021	1530		3-2-21	1530				
		3-2-21	1730		3/2/21	1730	4.0	Y	N	Y

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Reza Argyrakis
SIGNATURE of SAMPLER:
DATE Signed: 03/02/2021

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 3 Of 4

COC 1 - UG

Section A
Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Acton, GA 30114
Email:
Phone: (770)384-6526 Fax
Requested Due Date:

Section B
Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates ~~Ash~~ Up Gradient
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: Y/N	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)
~~YGWA-4S~~	WT																	X	X	X	X	
~~YGWA-4I~~	WT																	X	X	X	X	
~~YGWA-4D~~	WT																	X	X	X	X	
~~YGWA-3S~~	WT																	X	X	X	X	
~~YGWA-3D~~	WT																	X	X	X	X	
YGWA-14S	WT		3/2	1120				5	✓		✓							X	X	X	X	pH 5.49
YGWA-30I	WT		3/2	1425				5	✓		✓							X	X	X	X	pH 5.78
~~YGWC-26S~~ FB-01	WT		3/2	1130				5	✓		✓							X	X	X	X	—
~~YGWC-26I~~ DUP-01	WT		3/2	—				5	✓		✓							X	X	X	X	—
~~YGWC-27S~~	WT																	X	X	X	X	
~~YGWC-27I~~	WT																	X	X	X	X	
~~YGWC-26D~~	WT																	X	X	X	X	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	[signature]	3/3/22	17:30	[signature]	3/2/21	1730

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Katie Burkhalter
SIGNATURE of SAMPLER: [signature]
DATE Signed: 3/2/2021

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 4 Of 4

COC 1 (updradient)

Section A	Section B	Section C
Required Client Information:	Required Project Information:	Invoice Information:
Company: Georgia Power	Report To: Becky Steever	Attention:
Address: 1070 Bridge Mill Ave, GA 30114	Copy To:	Company Name:
	Purchase Order #:	Address:
Phone: (770)384-6526 Fax:	Project Name: Yates ~~Gypsum LF~~ Up Grad.	Pace Quote:
Requested Due Date:	Project #:	Pace Project Manager: kevin.herring@pacelabs.com,
		Pace Profile #: 10840

Regulatory Agency

State / Location: GA

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS	Cl, F, SO4	App I/II/III/V Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
	WT																	X	X	X	X		
	WT																	X	X	X	X		
FB-01	WT		3/2	1520				5	✓		✓							X	X	X	X		
GWA-2	WT		3/2	1510				5	✓		✓							X	X	X	X		4252514 → PH 5.42
~~GWC-6R~~	WT																	X	X	X	X		
~~GWC-6R~~	WT																	X	X	X	X		
~~GWC-1R~~	WT																	X	X	X	X		
~~GWC-2R~~	WT																	X	X	X	X		
~~GWC-4R~~	WT																	X	X	X	X		
~~GWC-8R~~	WT																	X	X	X	X		

MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		3/2/21	1520		3.2.21	1520				
		3.2.21	1738		3/4/21	1730	4.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER:

DATE Signed: 3/2/21

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

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 5

Coc

Section A
Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Marietta, GA 30114
Email:
Phone: (770)384-6526 Fax:
Requested Due Date:

Section B
Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates R6
Project #:

Section C
Invoice Information:
Attention:
Company Name
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Analyses Test: TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)
1	~~YGWA-39~~	WT																	X	X	X	X	
2	YGWA-40	WT		3/4/21	10:18				5	1									X	X	X	X	pH: 5.23
3	~~YGWC-41~~	WT																	X	X	X	X	
4	~~YGWC-42~~	WT																	X	X	X	X	
5	~~YGWC-43~~	WT																	X	X	X	X	
6	~~YGWC-38~~	WT																	X	X	X	X	
7																							
8																							
9																							
10																							
11																							
12																							

MATRIX Codes: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
		3-4-21	1645				

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Katie Piekiewicz
SIGNATURE of SAMPLER:
DATE Signed: 3.4.21

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

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CDC

Section A
Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Marietta, GA 30114
Email:
Phone: (770)384-6526 Fax:
Requested Due Date:

Section B
Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates AMA
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
1		WT																	X	X	X	X		
2		WT																	X	X	X	X		
3		WT																	X	X	X	X		
4	~~YGWA-4I~~	WT																	X	X	X	X		
5	~~YGWA-5D~~	WT																	X	X	X	X		
6	~~YGWA-5D~~	WT																	X	X	X	X		
7	YGWA-17S	WT		3/3	1220				5	✓		✓							X	X	X	X		Ph: 5.52
8	YGWA-18S	WT		3/3	1350				5	✓		✓							X	X	X	X		Ph: 5.31
9	YGWA-18I	WT		3/3	1500				5	✓		✓							X	X	X	X		Ph 5.89
10	~~YGWA-20S~~	WT																	X	X	X	X		
11	~~YGWA-21I~~	WT																	X	X	X	X		
12	YGWC-23S	WT		3/4	0														X	X	X	X		Ph 7.5

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Jake Swanson	3/4/21	1700	Charles Hann	3/5/21	0920	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Jake Swanson
SIGNATURE of SAMPLER:
DATE Signed: 3/4/21

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

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COC 1

Section A
Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Canton, GA 30114
Email:
Phone: (770)384-6526 Fax
Requested Due Date:

Section B
Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates R6
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)
1	YGWA-39	WT		3/4	1020				5	✓		✓							X	X	X	X	
2	~~YGWA-40~~	WT																	X	X	X	X	
3	~~YGWC-41~~	WT																	X	X	X	X	
4	~~YGWC-42~~	WT																	X	X	X	X	
5	~~YGWC-43~~	WT																	X	X	X	X	
6	~~YGWC-38~~	WT																	X	X	X	X	
7																			X	X	X		
8																							
9																							
10																							
11																							
12																							

Matrix codes: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS

Residual Chlorine (Y/N): Ph: 5.54

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Dake Swanson	3/4/24	1700		3/5/24	0920	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Dake Swanson
SIGNATURE of SAMPLER:
DATE Signed: 3/4/24

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

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COC UG

Section A
Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Canton, GA 30114
Email:
Phone: (770)384-6526 Fax
Requested Due Date:

Section B
Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates AP-2
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
1	YGWA-1D (030321)	WT		3/3	1425				5	4		1							x	x	x	x		pH 7.20
2	YGWA-1I (030321)	WT		3/3	1335				5	4		1							x	x	x	x		pH 5.38
3	YGWA-2I (030321)	WT		3/3	1145				5	4		1							x	x	x	x		pH 7.92
4	YGWA-3I (030321)	WT		3/3	1200				5	4		1							x	x	x	x		pH 8.33
5	YGWA-3D (030321)	WT		3/3	1400				5	4		1							x	x	x	x		pH 8.39
6	~~YGWA-[illegible]~~	WT																	~~x~~	~~x~~	~~x~~	~~x~~		—
7	~~YGWA-[illegible]~~	WT																	~~x~~	~~x~~	~~x~~	~~x~~		—
8	~~YGWC-26S~~	WT																	~~x~~	~~x~~	~~x~~	~~x~~		—
9	~~YGWC-26I~~	WT																	~~x~~	~~x~~	~~x~~	~~x~~		—
10	~~YGWC-27S~~	WT																	~~x~~	~~x~~	~~x~~	~~x~~		—
11	~~YGWC-27I~~	WT																	~~x~~	~~x~~	~~x~~	~~x~~		—
12	~~YGWC-28S~~ EB-02 (03032021)	WT		3/3	1715				5	4		1							x	x	x	x		—

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature] / Arcadis	3/4		[signature]	3/5/21	0920	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Becky Steever
SIGNATURE of SAMPLER: [signature]
DATE Signed: 3/4/21

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

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Page : 5 Of 5

COC 1

Section A
Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
Marietta, GA 30114
Email:
Phone: (770)384-6520 Fax:
Requested Due Date:

Section B
Required Project Information:
Report To: Becky Sleever
Copy To:
Purchase Order #:
Project Name: Yates AMA
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Regulatory Agency:
State / Location: GA

MATRIX: Drinking Water D, Water W, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)
1		WT																	x	x	x	x	
2		WT																	x	x	x	x	
3		WT																	x	x	x	x	
4	YGWA-4I	WT		03/05/24	1035				5	x		x							x	x	x	x	pH: 6.21
5	~~YGWA-5I~~	WT																	x	x	x	x	
6	~~YGWA-5D~~	WT																	x	x	x	x	
7	~~YGWA-17S~~	WT																	x	x	x	x	
8	~~YGWA-18S~~	WT																	x	x	x	x	
9	~~YGWA-18I~~	WT																	x	x	x	x	
10	YGWA-20S	WT		03/04/24	0940				5	x		x							x	x	x	x	pH: 5.89
11	YGWA-21I	WT		03/04/24	0935				5	x		x							x	x	x	x	pH: 6.80
12	~~YGWC-23S~~	WT																	x	x	x	x	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
		3/4/2024	1605	Charles Hall	3/5/24	0920	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Peter Argyakis
SIGNATURE of SAMPLER:
DATE Signed: 03/04/2024

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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

April 01, 2021

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

RE: Project: YATES RADS
Pace Project No.: 92525245

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between March 02, 2021 and March 05, 2021. 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
Kevin Herring
kevin.herring@pacelabs.com
1(704)875-9092
HORIZON Database Administrator

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Samantha Thomas
Maribel Vital

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: YATES RADS
Pace Project No.: 92525245

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 #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: YATES RADS
Pace Project No.: 92525245

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92525245001	**YGWC-26S**	Water	03/02/21 14:00	03/02/21 17:30
92525245002	**YGWC-28I**	Water	03/03/21 13:40	03/05/21 09:20
92525245003	**YGWC-29I**	Water	03/03/21 10:45	03/05/21 09:20
92525245004	**EB-01**	Water	03/03/21 16:25	03/05/21 09:20
92525245005	**DUP-02**	Water	03/03/21 00:00	03/05/21 09:20
92525245006	**YGWC-26I**	Water	03/03/21 09:15	03/05/21 09:20
92525245007	**YGWC-27S**	Water	03/03/21 14:40	03/05/21 09:20
92525245008	**YGWC-27I**	Water	03/03/21 15:40	03/05/21 09:20
92525245009	**YGWC-28S**	Water	03/03/21 11:55	03/05/21 09:20
92525237007	**EB-01**	Water	03/03/21 10:20	03/05/21 09:20

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES RADS
Pace Project No.: 92525245

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92525245001	**YGWC-26S**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525245002	**YGWC-28I**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525245003	**YGWC-29I**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525245004	**EB-01**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525245005	**DUP-02**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525245006	**YGWC-26I**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525245007	**YGWC-27S**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525245008	**YGWC-27I**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525245009	**YGWC-28S**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92525237007	**EB-01**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: YATES RADS
Pace Project No.: 92525245

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525245001	**YGWC-26S**					
EPA 9315	Radium-226	0.174 ± 0.161 (0.324) C:79% T:NA	pCi/L		03/22/21 08:47	
EPA 9320	Radium-228	0.220 ± 0.328 (0.707) C:76% T:84%	pCi/L		03/18/21 16:20	
Total Radium Calculation	Total Radium	0.394 ± 0.489 (1.03)	pCi/L		03/26/21 14:37	
92525245002	**YGWC-28I**					
EPA 9315	Radium-226	0.185 ± 0.134 (0.232) C:79% T:NA	pCi/L		03/22/21 08:31	
EPA 9320	Radium-228	0.0761 ± 0.370 (0.842) C:77% T:84%	pCi/L		03/19/21 15:16	
Total Radium Calculation	Total Radium	0.261 ± 0.504 (1.07)	pCi/L		03/26/21 14:34	
92525245003	**YGWC-29I**					
EPA 9315	Radium-226	0.706 ± 0.253 (0.319) C:75% T:NA	pCi/L		03/22/21 08:32	
EPA 9320	Radium-228	0.249 ± 0.300 (0.631) C:78% T:90%	pCi/L		03/19/21 15:16	
Total Radium Calculation	Total Radium	0.955 ± 0.553 (0.950)	pCi/L		03/26/21 14:34	
92525245004	**EB-01**					
EPA 9315	Radium-226	0.235 ± 0.154 (0.266) C:81% T:NA	pCi/L		03/22/21 08:32	
EPA 9320	Radium-228	0.278 ± 0.304 (0.631) C:81% T:86%	pCi/L		03/19/21 15:16	
Total Radium Calculation	Total Radium	0.513 ± 0.458 (0.897)	pCi/L		03/26/21 14:34	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: YATES RADS
Pace Project No.: 92525245

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525245005	**DUP-02**					
EPA 9315	Radium-226	0.132 ± 0.133 (0.268) C:81% T:NA	pCi/L		03/22/21 08:32	
EPA 9320	Radium-228	0.222 ± 0.291 (0.619) C:80% T:87%	pCi/L		03/19/21 15:16	
Total Radium Calculation	Total Radium	0.354 ± 0.424 (0.887)	pCi/L		03/26/21 14:34	
92525245006	**YGWC-26I**					
EPA 9315	Radium-226	0.247 ± 0.138 (0.196) C:85% T:NA	pCi/L		03/22/21 08:35	
EPA 9320	Radium-228	0.172 ± 0.331 (0.728) C:79% T:83%	pCi/L		03/19/21 15:16	
Total Radium Calculation	Total Radium	0.419 ± 0.469 (0.924)	pCi/L		03/26/21 14:34	
92525245007	**YGWC-27S**					
EPA 9315	Radium-226	0.106 ± 0.158 (0.352) C:75% T:NA	pCi/L		03/22/21 08:35	
EPA 9320	Radium-228	0.221 ± 0.341 (0.738) C:81% T:91%	pCi/L		03/19/21 15:16	
Total Radium Calculation	Total Radium	0.327 ± 0.499 (1.09)	pCi/L		03/26/21 14:34	
92525245008	**YGWC-27I**					
EPA 9315	Radium-226	1.24 ± 0.329 (0.257) C:81% T:NA	pCi/L		03/22/21 08:35	
EPA 9320	Radium-228	0.147 ± 0.332 (0.737) C:80% T:89%	pCi/L		03/19/21 15:16	
Total Radium Calculation	Total Radium	1.39 ± 0.661 (0.994)	pCi/L		03/26/21 14:34	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: YATES RADS
Pace Project No.: 92525245

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92525245009	**YGWC-28S**					
EPA 9315	Radium-226	0.474 ± 0.200 (0.258) C:76% T:NA	pCi/L		03/22/21 08:35	
EPA 9320	Radium-228	0.561 ± 0.364 (0.687) C:80% T:87%	pCi/L		03/19/21 15:16	
Total Radium Calculation	Total Radium	1.04 ± 0.564 (0.945)	pCi/L		03/26/21 14:34	
92525237007	**EB-01**					
EPA 9315	Radium-226	0.246 ± 0.217 (0.430) C:89% T:NA	pCi/L		03/16/21 09:12	
EPA 9320	Radium-228	-0.235 ± 0.356 (0.889) C:63% T:86%	pCi/L		03/19/21 15:12	
Total Radium Calculation	Total Radium	0.246 ± 0.573 (1.32)	pCi/L		03/27/21 10:18	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525245

Sample: YGWC-26S **Lab ID: 92525245001** Collected: 03/02/21 14:00 Received: 03/02/21 17:30 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	**0.174 ± 0.161 (0.324) C:79% T:NA**	pCi/L	03/22/21 08:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.220 ± 0.328 (0.707) C:76% T:84%**	pCi/L	03/18/21 16:20	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.394 ± 0.489 (1.03)**	pCi/L	03/26/21 14:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525245

Sample: YGWC-28I **Lab ID: 92525245002** Collected: 03/03/21 13:40 Received: 03/05/21 09:20 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	**0.185 ± 0.134 (0.232) C:79% T:NA**	pCi/L	03/22/21 08:31	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0761 ± 0.370 (0.842) C:77% T:84%**	pCi/L	03/19/21 15:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.261 ± 0.504 (1.07)**	pCi/L	03/26/21 14:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525245

Sample: YGWC-29I **Lab ID: 92525245003** Collected: 03/03/21 10:45 Received: 03/05/21 09:20 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	**0.706 ± 0.253 (0.319) C:75% T:NA**	pCi/L	03/22/21 08:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.249 ± 0.300 (0.631) C:78% T:90%**	pCi/L	03/19/21 15:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.955 ± 0.553 (0.950)**	pCi/L	03/26/21 14:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525245

Sample: EB-01 **Lab ID: 92525245004** Collected: 03/03/21 16:25 Received: 03/05/21 09:20 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	**0.235 ± 0.154 (0.266) C:81% T:NA**	pCi/L	03/22/21 08:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.278 ± 0.304 (0.631) C:81% T:86%**	pCi/L	03/19/21 15:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.513 ± 0.458 (0.897)**	pCi/L	03/26/21 14:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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Peachtree Corners, GA 30092
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525245

Sample: DUP-02 **Lab ID: 92525245005** Collected: 03/03/21 00:00 Received: 03/05/21 09:20 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	**0.132 ± 0.133 (0.268) C:81% T:NA**	pCi/L	03/22/21 08:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.222 ± 0.291 (0.619) C:80% T:87%**	pCi/L	03/19/21 15:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.354 ± 0.424 (0.887)**	pCi/L	03/26/21 14:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525245

Sample: YGWC-26I **Lab ID: 92525245006** Collected: 03/03/21 09:15 Received: 03/05/21 09:20 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	**0.247 ± 0.138 (0.196) C:85% T:NA**	pCi/L	03/22/21 08:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.172 ± 0.331 (0.728) C:79% T:83%**	pCi/L	03/19/21 15:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.419 ± 0.469 (0.924)**	pCi/L	03/26/21 14:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525245

Sample: YGWC-27S **Lab ID: 92525245007** Collected: 03/03/21 14:40 Received: 03/05/21 09:20 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	**0.106 ± 0.158 (0.352) C:75% T:NA**	pCi/L	03/22/21 08:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.221 ± 0.341 (0.738) C:81% T:91%**	pCi/L	03/19/21 15:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.327 ± 0.499 (1.09)**	pCi/L	03/26/21 14:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525245

Sample: YGWC-27I **Lab ID: 92525245008** Collected: 03/03/21 15:40 Received: 03/05/21 09:20 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	**1.24 ± 0.329 (0.257) C:81% T:NA**	pCi/L	03/22/21 08:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.147 ± 0.332 (0.737) C:80% T:89%**	pCi/L	03/19/21 15:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.39 ± 0.661 (0.994)**	pCi/L	03/26/21 14:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525245

Sample: YGWC-28S **Lab ID: 92525245009** Collected: 03/03/21 11:55 Received: 03/05/21 09:20 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	**0.474 ± 0.200 (0.258) C:76% T:NA**	pCi/L	03/22/21 08:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.561 ± 0.364 (0.687) C:80% T:87%**	pCi/L	03/19/21 15:16	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.04 ± 0.564 (0.945)**	pCi/L	03/26/21 14:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525245

Sample: EB-01 **Lab ID: 92525237007** Collected: 03/03/21 10:20 Received: 03/05/21 09:20 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	**0.246 ± 0.217 (0.430) C:89% T:NA**	pCi/L	03/16/21 09:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.235 ± 0.356 (0.889) C:63% T:86%**	pCi/L	03/19/21 15:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.246 ± 0.573 (1.32)**	pCi/L	03/27/21 10:18	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525245

QC Batch: 437953
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92525237007

METHOD BLANK: 2114136 Matrix: Water
Associated Lab Samples: 92525237007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.856 ± 0.495 (0.916) C:71% T:73%	pCi/L	03/19/21 11:52	

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 RADS
Pace Project No.: 92525245

QC Batch: 437937
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92525237007

METHOD BLANK: 2114109 Matrix: Water
Associated Lab Samples: 92525237007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0804 ± 0.198 (0.468) C:67% T:NA	pCi/L	03/16/21 08:04	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525245

QC Batch: 437643
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92525245001

METHOD BLANK: 2112540 Matrix: Water
Associated Lab Samples: 92525245001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.387 ± 0.316 (0.633) C:83% T:90%	pCi/L	03/18/21 12:44	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525245

QC Batch: 437642
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92525245002, 92525245003, 92525245004, 92525245005, 92525245006, 92525245007, 92525245008, 92525245009

METHOD BLANK: 2112539 Matrix: Water
Associated Lab Samples: 92525245002, 92525245003, 92525245004, 92525245005, 92525245006, 92525245007, 92525245008, 92525245009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.219 ± 0.271 (0.570) C:75% T:92%	pCi/L	03/19/21 15:12	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525245

QC Batch: 437601 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92525245002, 92525245003, 92525245004, 92525245005, 92525245006, 92525245007, 92525245008, 92525245009

METHOD BLANK: 2112394 Matrix: Water
Associated Lab Samples: 92525245002, 92525245003, 92525245004, 92525245005, 92525245006, 92525245007, 92525245008, 92525245009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0425 ± 0.110 (0.264) C:81% T:NA	pCi/L	03/22/21 08:26	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES RADS
Pace Project No.: 92525245

QC Batch: 437602
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92525245001

METHOD BLANK: 2112395 Matrix: Water
Associated Lab Samples: 92525245001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0514 ± 0.104 (0.242) C:82% T:NA	pCi/L	03/22/21 08:37	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALIFIERS

Project: YATES RADS
Pace Project No.: 92525245

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.

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.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES RADS
Pace Project No.: 92525245

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92525245001	YGWC-26S	EPA 9315	437602		
92525237007	EB-01	EPA 9315	437937		
92525245002	YGWC-28I	EPA 9315	437601		
92525245003	YGWC-29I	EPA 9315	437601		
92525245004	EB-01	EPA 9315	437601		
92525245005	DUP-02	EPA 9315	437601		
92525245006	YGWC-26I	EPA 9315	437601		
92525245007	YGWC-27S	EPA 9315	437601		
92525245008	YGWC-27I	EPA 9315	437601		
92525245009	YGWC-28S	EPA 9315	437601		
92525245001	YGWC-26S	EPA 9320	437643		
92525237007	EB-01	EPA 9320	437953		
92525245002	YGWC-28I	EPA 9320	437642		
92525245003	YGWC-29I	EPA 9320	437642		
92525245004	EB-01	EPA 9320	437642		
92525245005	DUP-02	EPA 9320	437642		
92525245006	YGWC-26I	EPA 9320	437642		
92525245007	YGWC-27S	EPA 9320	437642		
92525245008	YGWC-27I	EPA 9320	437642		
92525245009	YGWC-28S	EPA 9320	437642		
92525245001	YGWC-26S	Total Radium Calculation	440668		
92525237007	EB-01	Total Radium Calculation	440752		
92525245002	YGWC-28I	Total Radium Calculation	440666		
92525245003	YGWC-29I	Total Radium Calculation	440666		
92525245004	EB-01	Total Radium Calculation	440666		
92525245005	DUP-02	Total Radium Calculation	440666		
92525245006	YGWC-26I	Total Radium Calculation	440666		
92525245007	YGWC-27S	Total Radium Calculation	440666		
92525245008	YGWC-27I	Total Radium Calculation	440666		
92525245009	YGWC-28S	Total Radium Calculation	440666		

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia power

Project #: WO# : 92525245

92525245

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other: ☑ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Date/Initials Person Examining Contents: MT 3/31/2(

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Thermometer: ☐ IR Gun ID: 230 ☑ Wet ☐ Blue ☐ None

Type of Ice:

Biological Tissue Frozen? ☐ Yes ☑ No ☐ N/A

Cooler Temp: 4.0 **Correction Factor:** Add/Subtract (°C) +0

Cooler Temp Corrected (°C): 4.0

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

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

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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.

Page: 1 Of 1

COC 3 AP2 DG

Section A – Required Client Information:

- Company: Georgia Power
- Address: 1070 Bridge Mill Ave
- Canton, GA 30114
- Email:
- Phone: (770)384-6526 Fax:
- Requested Due Date:

Section B – Required Project Information:

- Report To: Becky Steever
- Copy To:
- Purchase Order #:
- Project Name: Yates AP-2
- Project #:

Section C – Invoice Information:

- Attention:
- Company Name:
- Address:
- Pace Quote:
- Pace Project Manager: kevin.herring@pacelabs.com,
- Pace Profile #: 10640

Regulatory Agency:

State / Location: GA

MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS

SAMPLE ID – One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)
1	~~YGWA-1I~~	WT																~~X~~	~~X~~	~~X~~	~~X~~	92525245
2	~~YGWA-4D~~	WT																~~X~~	~~X~~	~~X~~	~~X~~	
3	~~YGWA-2I~~	WT																~~X~~	~~X~~	~~X~~	~~X~~	
4	~~YGWA-3I~~	WT																~~X~~	~~X~~	~~X~~	~~X~~	
5	~~YGWA-5D~~	WT																~~X~~	~~X~~	~~X~~	~~X~~	
6	~~[illegible]~~	WT																~~X~~	~~X~~	~~X~~	~~X~~	
7	~~YGWA-30I~~	WT																~~X~~	~~X~~	~~X~~	~~X~~	
8	YGWC-26S	WT		3 22	1400			5	/		/							X	X	X	X	pH: 5.38
9	~~YGWB-20I~~	WT																~~X~~	~~X~~	~~X~~	~~X~~	
10	~~YGWC-27S~~	WT																~~X~~	~~X~~	~~X~~	~~X~~	
11	~~[illegible]~~	WT																~~X~~	~~X~~	~~X~~	~~X~~	
12	~~[illegible]~~	WT																~~X~~	~~X~~	~~X~~	~~X~~	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	3 22	1730	[signature] / Pace	3/2/21	1730	4.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Katie Pepkiewicz

SIGNATURE of SAMPLER: [signature] DATE Signed: 3.22

TEMP in C | Received on Ice (Y/N) | Custody 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.

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COC 13

Section A
Required Client Information:
Company: Georgia Power
Address: 1070 Bridge Mill Ave
…on, GA 30114
Email:
Phone: (770)364-6526 Fax:
Requested Due Date:

Section B
Required Project Information:
Report To: Becky Steever
Copy To:
Purchase Order #:
Project Name: Yates AP-2
Project #:

Section C
Invoice Information:
Attention:
Company Name:
Address:
Pace Quote:
Pace Project Manager: kevin.herring@pacelabs.com,
Pace Profile #: 10840

Regulatory Agency
State / Location: GA

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	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	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
3	YGWC-28	WT		3.3.21	1340				5	/		/							x	x	x	x		pH 6.51
4	YGWC-29I	WT		3.3.21	1045				5	/		/							x	x	x	x		pH 6.27
5		WT																	x	x	x	x		
6		WT																	x	x	x	x		
7		WT																	x	x	x	x		
8		WT																	x	x	x	x		
9		WT																	x	x	x	x		
10		WT																	x	x	x	x		
11																								
12																								
13																								
14																								

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Kate [signature]	3-4-21	1045	[signature]	3/5/21	0920	

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Katie Pepkiewicz
SIGNATURE of SAMPLER: [signature] DATE Signed: 3.3.21

TEMP in C | Received on Ice (Y/N) | Custody 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.

Page: 2 Of 2

COC 3

Section A — Required Client Information:

Company:	Georgia Power
Address:	1070 Bridge Mill Ave
	Canton, GA 30114
Email:	
Phone:	(770)384-6526 Fax
Requested Due Date:	

Section B — Required Project Information:

Report To:	Becky Steever
Copy To:	
Purchase Order #:	
Project Name:	Yates AP-2
Project #:	

Section C — Invoice Information:

Attention:	
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	kevin.herring@pacelabs.com,
Pace Profile #:	10840

Regulatory Agency	
State / Location	GA

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	Collected Start DATE	Collected Start TIME	Collected End DATE	Collected End TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	Sample Conditions
1	~~YGWA-4I~~	WT																	~~X~~	~~X~~	~~X~~	~~X~~		
2	~~YGWA-18S~~	WT																	~~X~~	~~X~~	~~X~~	~~X~~		—
3	~~YGWC-?~~	WT																	~~X~~	~~X~~	~~X~~	~~X~~		—
4	~~YGWA-?~~	WT																	~~X~~	~~X~~	~~X~~	~~X~~		→
5	~~YGWA-?~~	WT																	~~X~~	~~X~~	~~X~~	~~X~~		—
6	~~YGWA-?~~	WT																	~~X~~	~~X~~	~~X~~	~~X~~		—
7	~~YGWA-30I~~ EB-01	WT		3.3.21	1625				5	/		/							X	X	X	X		—
8	~~YGWC-?~~ DUP-02	WT		3.3.21	—				5	/		/							X	X	X	X		—
9	YGWC-26I	WT		3.3.21	915				5	/		/							X	X	X	X		pH: 5.93
10	YGWC-27S	WT		3.3.21	~~[illegible]~~		1440		5	/		/							X	X	X	X		pH: 6.35
11	YGWC-27I	WT		3.3.21	1540				5	/		/							X	X	X	X		pH: 6.43
12	YGWC-28S	WT		3.3.21	1155				5	/		/							X	X	X	X		pH: 6.61

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature]	3.4.21	1635	[signature]	3/5/21	0920	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Katie Pipkiewicz

SIGNATURE of SAMPLER: [signature] DATE Signed: 3.3.21

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

Quality Control Sample Performance Assessment

Pace Analytical
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Test: Ra-226
Analyst: LAL
Date: 3/10/2021
Worklist: 59153
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2112394
MB concentration:	0.043
M/B Counting Uncertainty:	0.110
MB MDC:	0.264
MB Numerical Performance Indicator:	0.76
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS59153	LCSD59153
Count Date:	3/22/2021	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.039	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.505	
Target Conc. (pCi/L, g, F):	4.756	
Uncertainty (Calculated):	0.057	
Result (pCi/L, g, F):	5.078	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.518	
Numerical Performance Indicator:	1.21	
Percent Recovery:	106.78%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
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):		
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		
Sample I.D.:	92525363011	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	92525363011DUP	
Sample Result (pCi/L, g, F):	0.103	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.137	
Sample Duplicate Result (pCi/L, g, F):	0.053	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.101	
Are sample and/or duplicate results below RL?	See Below##	
Duplicate Numerical Performance Indicator:	0.675	92525363011
Duplicate RPD:	64.02%	92525363011DUP
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Fail***	
% RPD Limit:	25%	

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 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.

OK

Comments:

~~***Batch must be re-prepped due to unacceptable precision.~~ N/A LAM 3/22/21

CMM 3/22/21 CMM 3/22/21 LAM 3/22/21

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	LAL
Date:	3/10/2021
Worklist:	59153
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2112394
MB concentration:	0.043
M/B Counting Uncertainty:	0.110
MB MDC:	0.264
MB Numerical Performance Indicator:	0.76
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS59153	LCSD59153
Count Date:	3/22/2021	3/22/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.039	24.039
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.505	0.506
Target Conc. (pCi/L, g, F):	4.756	4.749
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.078	4.939
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.518	0.508
Numerical Performance Indicator:	1.21	0.73
Percent Recovery:	106.78%	104.01%
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		
Sample I.D.:	LCS59153	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD59153	
Sample Result (pCi/L, g, F):	5.078	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.518	
Sample Duplicate Result (pCi/L, g, F):	4.939	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.508	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.375	92525363011
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.62%	92525363011DUP
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

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 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:

CM 3/20/21

LAM 3/22/21

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test: Ra-226
Analyst: LAL
Date: 3/10/2021
Worklist: 59154
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2112395
MB concentration:	0.051
M/B Counting Uncertainty:	0.104
MB MDC:	0.242
MB Numerical Performance Indicator:	0.97
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS59154	LCSD59154
Count Date:	3/22/2021	3/22/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.039	24.039
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.505	0.505
Target Conc. (pCi/L, g, F):	4.759	4.756
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.732	4.926
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.549	0.502
Numerical Performance Indicator:	3.45	0.66
Percent Recovery:	120.45%	103.59%
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		
Sample I.D.:	LCS59154	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD59154	
Sample Result (pCi/L, g, F):	5.732	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.549	
Sample Duplicate Result (pCi/L, g, F):	4.926	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.502	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	2.122	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	15.06%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

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 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:

3/22/21
AM 3/22/21

Quality Control Sample Performance Assessment

Pace Analytical
www.pacelabs.com

Test: Ra-226
Analyst: LAL
Date: 3/10/2021
Worklist: 59154
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2112395
MB concentration:	0.051
M/B Counting Uncertainty:	0.104
MB MDC:	0.242
MB Numerical Performance Indicator:	0.97
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS59154	LCSD59154
Count Date:	3/22/2021	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.039	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.505	
Target Conc. (pCi/L, g, F):	4.759	
Uncertainty (Calculated):	0.057	
Result (pCi/L, g, F):	5.732	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.549	
Numerical Performance Indicator:	3.45	
Percent Recovery:	120.45%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
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):		
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		
Sample I.D.:	92525214001	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	92525214001DUP	
Sample Result (pCi/L, g, F):	0.114	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.189	
Sample Duplicate Result (pCi/L, g, F):	0.134	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.113	
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:	-0.180	92525214001
Duplicate RPD:	16.34%	92525214001DUP
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	25%	

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 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:

LAM 3/22/21

LAM 3/22/21

Quality Control Sample Performance Assessment

Test: Ra-228
Analyst: VAL
Date: 3/15/2021
Worklist: 59158
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2112539
MB concentration:	0.219
MB 2 Sigma CSU:	0.271
MB MDC:	0.570
MB Numerical Performance Indicator:	1.59
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS59158	LCSD59158
Count Date:	3/19/2021	3/19/2021
Spike I.D.:	21-003	21-003
Decay Corrected Spike Concentration (pCi/mL):	38.405	38.405
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.804	0.813
Target Conc. (pCi/L, g, F):	4.777	4.724
Uncertainty (Calculated):	0.234	0.231
Result (pCi/L, g, F):	3.857	3.041
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.900	0.755
Numerical Performance Indicator:	-1.94	-4.18
Percent Recovery:	80.76%	64.39%
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.:	LCS59158	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD59158	
Sample Result (pCi/L, g, F):	3.857	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.900	
Sample Duplicate Result (pCi/L, g, F):	3.041	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.755	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.362	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	22.55%	
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

Pace Analytical
www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	3/15/2021
Worklist:	59159
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2112540
MB concentration:	0.387
M/B 2 Sigma CSU:	0.316
MB MDC:	0.633
MB Numerical Performance Indicator:	2.40
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS59159	LCSD59159
Count Date:	3/18/2021	3/18/2021
Spike I.D.:	21-003	21-003
Decay Corrected Spike Concentration (pCi/mL):	38.419	38.419
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.810	0.801
Target Conc. (pCi/L, g, F):	4.741	4.794
Uncertainty (Calculated):	0.232	0.235
Result (pCi/L, g, F):	4.345	4.001
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.951	0.884
Numerical Performance Indicator:	-0.79	-1.70
Percent Recovery:	91.66%	83.47%
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.:	LCS59159	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD59159	
Sample Result (pCi/L, g, F):	4.345	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.951	
Sample Duplicate Result (pCi/L, g, F):	4.001	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.884	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.519	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	9.34%	
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:

3/19/2021

August 2021

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

September 27, 2021

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

RE: Project: YATES AP-2 DG RADS
Pace Project No.: 92557062

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on August 20, 2021. 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
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
Samantha Thomas
Maribel Vital

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CERTIFICATIONS

Project: YATES AP-2 DG RADS
Pace Project No.: 92557062

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 #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: YATES AP-2 DG RADS
Pace Project No.: 92557062

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92557062001	**AP-2-EB-1**	Water	08/20/21 10:20	08/20/21 17:30
92557062002	**AP-2-FB-1**	Water	08/19/21 15:00	08/20/21 17:30
92557062003	**YGWC-26S**	Water	08/19/21 16:25	08/20/21 17:30
92557062005	**AP-2-EB-2**	Water	08/20/21 12:56	08/20/21 17:30
92557062006	**AP-2-FB-2**	Water	08/19/21 15:50	08/20/21 17:30
92557062007	**YGWC-27S**	Water	08/20/21 13:54	08/20/21 17:30
92557062008	**YGWC-27I**	Water	08/20/21 14:53	08/20/21 17:30
92557062009	**YGWC-28S**	Water	08/20/21 11:24	08/20/21 17:30
92557062010	**YGWC-28I**	Water	08/20/21 12:29	08/20/21 17:30
92557062011	**YGWC-29I**	Water	08/20/21 09:38	08/20/21 17:30
92557062012	**AP-2-DUP-1**	Water	08/20/21 00:00	08/20/21 17:30
92557062004	**YGWC-26I**	Water	08/20/21 10:39	08/20/21 17:30

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SAMPLE ANALYTE COUNT

Project: YATES AP-2 DG RADS
Pace Project No.: 92557062

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92557062001	**AP-2-EB-1**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557062002	**AP-2-FB-1**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557062003	**YGWC-26S**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557062005	**AP-2-EB-2**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557062006	**AP-2-FB-2**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557062007	**YGWC-27S**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557062008	**YGWC-27I**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557062009	**YGWC-28S**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557062010	**YGWC-28I**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557062011	**YGWC-29I**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557062012	**AP-2-DUP-1**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557062004	**YGWC-26I**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: YATES AP-2 DG RADS
Pace Project No.: 92557062

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory

PASI-PA = Pace Analytical Services - Greensburg

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: YATES AP-2 DG RADS
Pace Project No.: 92557062

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92557062001	**AP-2-EB-1**					
EPA 9315	Radium-226	0.0672 ± 0.126 (0.287) C:81% T:NA	pCi/L		09/20/21 12:38	
EPA 9320	Radium-228	0.552 ± 0.349 (0.652) C:74% T:89%	pCi/L		09/17/21 10:45	
Total Radium Calculation	Total Radium	0.619 ± 0.475 (0.939)	pCi/L		09/21/21 16:28	
92557062002	**AP-2-FB-1**					
EPA 9315	Radium-226	-0.00277 ± 0.0947 (0.259) C:97% T:NA	pCi/L		09/20/21 12:38	
EPA 9320	Radium-228	0.412 ± 0.343 (0.684) C:75% T:86%	pCi/L		09/17/21 10:45	
Total Radium Calculation	Total Radium	0.412 ± 0.438 (0.943)	pCi/L		09/21/21 16:28	
92557062003	**YGWC-26S**					
EPA 9315	Radium-226	0.160 ± 0.153 (0.295) C:82% T:NA	pCi/L		09/20/21 12:32	
EPA 9320	Radium-228	0.371 ± 0.311 (0.618) C:80% T:91%	pCi/L		09/17/21 10:45	
Total Radium Calculation	Total Radium	0.531 ± 0.464 (0.913)	pCi/L		09/21/21 16:28	
92557062005	**AP-2-EB-2**					
EPA 9315	Radium-226	0.0346 ± 0.107 (0.263) C:91% T:NA	pCi/L		09/20/21 12:32	
EPA 9320	Radium-228	0.784 ± 0.399 (0.710) C:80% T:90%	pCi/L		09/17/21 10:45	
Total Radium Calculation	Total Radium	0.819 ± 0.506 (0.973)	pCi/L		09/21/21 16:29	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AP-2 DG RADS
Pace Project No.: 92557062

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92557062006	**AP-2-FB-2**					
EPA 9315	Radium-226	-0.00856 ± 0.119 (0.322) C:91% T:NA	pCi/L		09/20/21 12:32	
EPA 9320	Radium-228	0.183 ± 0.321 (0.700) C:82% T:90%	pCi/L		09/17/21 10:46	
Total Radium Calculation	Total Radium	0.183 ± 0.440 (1.02)	pCi/L		09/21/21 16:29	
92557062007	**YGWC-27S**					
EPA 9315	Radium-226	0.0991 ± 0.127 (0.268) C:88% T:NA	pCi/L		09/20/21 12:32	
EPA 9320	Radium-228	0.443 ± 0.332 (0.650) C:80% T:86%	pCi/L		09/17/21 10:46	
Total Radium Calculation	Total Radium	0.542 ± 0.459 (0.918)	pCi/L		09/21/21 16:29	
92557062008	**YGWC-27I**					
EPA 9315	Radium-226	0.994 ± 0.315 (0.294) C:84% T:NA	pCi/L		09/20/21 12:32	
EPA 9320	Radium-228	0.367 ± 0.348 (0.713) C:80% T:85%	pCi/L		09/17/21 10:46	
Total Radium Calculation	Total Radium	1.36 ± 0.663 (1.01)	pCi/L		09/21/21 16:29	
92557062009	**YGWC-28S**					
EPA 9315	Radium-226	0.258 ± 0.191 (0.358) C:91% T:NA	pCi/L		09/20/21 12:32	
EPA 9320	Radium-228	1.08 ± 0.472 (0.782) C:72% T:86%	pCi/L		09/17/21 10:45	
Total Radium Calculation	Total Radium	1.34 ± 0.663 (1.14)	pCi/L		09/21/21 16:29	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: YATES AP-2 DG RADS
Pace Project No.: 92557062

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92557062010	**YGWC-28I**					
EPA 9315	Radium-226	0.182 ± 0.135 (0.219) C:93% T:NA	pCi/L		09/20/21 12:32	
EPA 9320	Radium-228	0.474 ± 0.386 (0.769) C:75% T:87%	pCi/L		09/17/21 13:57	
Total Radium Calculation	Total Radium	0.656 ± 0.521 (0.988)	pCi/L		09/21/21 16:29	
92557062011	**YGWC-29I**					
EPA 9315	Radium-226	0.314 ± 0.171 (0.231) C:85% T:NA	pCi/L		09/20/21 12:32	
EPA 9320	Radium-228	-0.0343 ± 0.368 (0.862) C:76% T:85%	pCi/L		09/17/21 13:57	
Total Radium Calculation	Total Radium	0.314 ± 0.539 (1.09)	pCi/L		09/21/21 16:29	
92557062012	**AP-2-DUP-1**					
EPA 9315	Radium-226	0.134 ± 0.134 (0.263) C:92% T:NA	pCi/L		09/20/21 12:32	
EPA 9320	Radium-228	-0.220 ± 0.335 (0.829) C:76% T:90%	pCi/L		09/17/21 13:57	
Total Radium Calculation	Total Radium	0.134 ± 0.469 (1.09)	pCi/L		09/21/21 16:39	
92557062004	**YGWC-26I**					
EPA 9315	Radium-226	0.128 ± 0.129 (0.248) C:89% T:NA	pCi/L		09/20/21 12:32	
EPA 9320	Radium-228	0.468 ± 0.339 (0.659) C:81% T:88%	pCi/L		09/17/21 10:45	
Total Radium Calculation	Total Radium	0.596 ± 0.468 (0.907)	pCi/L		09/21/21 16:28	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 DG RADS
Pace Project No.: 92557062

Sample: AP-2-EB-1 **Lab ID: 92557062001** Collected: 08/20/21 10:20 Received: 08/20/21 17:30 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	**0.0672 ± 0.126 (0.287) C:81% T:NA**	pCi/L	09/20/21 12:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.552 ± 0.349 (0.652) C:74% T:89%**	pCi/L	09/17/21 10:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.619 ± 0.475 (0.939)**	pCi/L	09/21/21 16:28	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 DG RADS
Pace Project No.: 92557062

Sample: AP-2-FB-1 **Lab ID: 92557062002** Collected: 08/19/21 15:00 Received: 08/20/21 17:30 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	**-0.00277 ± 0.0947 (0.259) C:97% T:NA**	pCi/L	09/20/21 12:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.412 ± 0.343 (0.684) C:75% T:86%**	pCi/L	09/17/21 10:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.412 ± 0.438 (0.943)**	pCi/L	09/21/21 16:28	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 DG RADS
Pace Project No.: 92557062

Sample: YGWC-26S **Lab ID: 92557062003** Collected: 08/19/21 16:25 Received: 08/20/21 17:30 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	**0.160 ± 0.153 (0.295) C:82% T:NA**	pCi/L	09/20/21 12:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.371 ± 0.311 (0.618) C:80% T:91%**	pCi/L	09/17/21 10:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.531 ± 0.464 (0.913)**	pCi/L	09/21/21 16:28	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 DG RADS
Pace Project No.: 92557062

Sample: AP-2-EB-2 **Lab ID: 92557062005** Collected: 08/20/21 12:56 Received: 08/20/21 17:30 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	**0.0346 ± 0.107 (0.263) C:91% T:NA**	pCi/L	09/20/21 12:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.784 ± 0.399 (0.710) C:80% T:90%**	pCi/L	09/17/21 10:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.819 ± 0.506 (0.973)**	pCi/L	09/21/21 16:29	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 DG RADS
Pace Project No.: 92557062

Sample: AP-2-FB-2 **Lab ID: 92557062006** Collected: 08/19/21 15:50 Received: 08/20/21 17:30 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	**-0.00856 ± 0.119 (0.322) C:91% T:NA**	pCi/L	09/20/21 12:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.183 ± 0.321 (0.700) C:82% T:90%**	pCi/L	09/17/21 10:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.183 ± 0.440 (1.02)**	pCi/L	09/21/21 16:29	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 DG RADS
Pace Project No.: 92557062

Sample: YGWC-27S **Lab ID: 92557062007** Collected: 08/20/21 13:54 Received: 08/20/21 17:30 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	**0.0991 ± 0.127 (0.268) C:88% T:NA**	pCi/L	09/20/21 12:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.443 ± 0.332 (0.650) C:80% T:86%**	pCi/L	09/17/21 10:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.542 ± 0.459 (0.918)**	pCi/L	09/21/21 16:29	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 DG RADS
Pace Project No.: 92557062

Sample: YGWC-27I **Lab ID: 92557062008** Collected: 08/20/21 14:53 Received: 08/20/21 17:30 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	**0.994 ± 0.315 (0.294) C:84% T:NA**	pCi/L	09/20/21 12:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.367 ± 0.348 (0.713) C:80% T:85%**	pCi/L	09/17/21 10:46	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.36 ± 0.663 (1.01)**	pCi/L	09/21/21 16:29	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 DG RADS
Pace Project No.: 92557062

Sample: YGWC-28S **Lab ID: 92557062009** Collected: 08/20/21 11:24 Received: 08/20/21 17:30 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	**0.258 ± 0.191 (0.358) C:91% T:NA**	pCi/L	09/20/21 12:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.08 ± 0.472 (0.782) C:72% T:86%**	pCi/L	09/17/21 10:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.34 ± 0.663 (1.14)**	pCi/L	09/21/21 16:29	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 DG RADS
Pace Project No.: 92557062

Sample: YGWC-28I **Lab ID: 92557062010** Collected: 08/20/21 12:29 Received: 08/20/21 17:30 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	**0.182 ± 0.135 (0.219) C:93% T:NA**	pCi/L	09/20/21 12:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.474 ± 0.386 (0.769) C:75% T:87%**	pCi/L	09/17/21 13:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.656 ± 0.521 (0.988)**	pCi/L	09/21/21 16:29	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 DG RADS
Pace Project No.: 92557062

Sample: YGWC-29I **Lab ID: 92557062011** Collected: 08/20/21 09:38 Received: 08/20/21 17:30 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	**0.314 ± 0.171 (0.231) C:85% T:NA**	pCi/L	09/20/21 12:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0343 ± 0.368 (0.862) C:76% T:85%**	pCi/L	09/17/21 13:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.314 ± 0.539 (1.09)**	pCi/L	09/21/21 16:29	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 DG RADS
Pace Project No.: 92557062

Sample: AP-2-DUP-1 **Lab ID: 92557062012** Collected: 08/20/21 00:00 Received: 08/20/21 17:30 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	**0.134 ± 0.134 (0.263) C:92% T:NA**	pCi/L	09/20/21 12:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.220 ± 0.335 (0.829) C:76% T:90%**	pCi/L	09/17/21 13:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.134 ± 0.469 (1.09)**	pCi/L	09/21/21 16:39	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 DG RADS
Pace Project No.: 92557062

Sample: YGWC-26I **Lab ID: 92557062004** Collected: 08/20/21 10:39 Received: 08/20/21 17:30 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	**0.128 ± 0.129 (0.248) C:89% T:NA**	pCi/L	09/20/21 12:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.468 ± 0.339 (0.659) C:81% T:88%**	pCi/L	09/17/21 10:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.596 ± 0.468 (0.907)**	pCi/L	09/21/21 16:28	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AP-2 DG RADS
Pace Project No.: 92557062

QC Batch: 463391 | Analysis Method: EPA 9320
QC Batch Method: EPA 9320 | Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92557062001, 92557062002, 92557062003, 92557062004, 92557062005, 92557062006, 92557062007, 92557062008, 92557062009, 92557062010, 92557062011, 92557062012

METHOD BLANK: 2237294 Matrix: Water

Associated Lab Samples: 92557062001, 92557062002, 92557062003, 92557062004, 92557062005, 92557062006, 92557062007, 92557062008, 92557062009, 92557062010, 92557062011, 92557062012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.204 ± 0.288 (0.618) C:77% T:85%	pCi/L	09/17/21 10:46	

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 AP-2 DG RADS
Pace Project No.: 92557062

QC Batch: 463393
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92557062001, 92557062002, 92557062003, 92557062004, 92557062005, 92557062006, 92557062007, 92557062008, 92557062009, 92557062010, 92557062011, 92557062012

METHOD BLANK: 2237295
Matrix: Water
Associated Lab Samples: 92557062001, 92557062002, 92557062003, 92557062004, 92557062005, 92557062006, 92557062007, 92557062008, 92557062009, 92557062010, 92557062011, 92557062012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0556 ± 0.118 (0.276) C:82% T:NA	pCi/L	09/20/21 12:38	

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: YATES AP-2 DG RADS
Pace Project No.: 92557062

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AP-2 DG RADS
Pace Project No.: 92557062

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92557062001	**AP-2-EB-1**	EPA 9315	463393		
92557062002	**AP-2-FB-1**	EPA 9315	463393		
92557062003	**YGWC-26S**	EPA 9315	463393		
92557062004	**YGWC-26I**	EPA 9315	463393		
92557062005	**AP-2-EB-2**	EPA 9315	463393		
92557062006	**AP-2-FB-2**	EPA 9315	463393		
92557062007	**YGWC-27S**	EPA 9315	463393		
92557062008	**YGWC-27I**	EPA 9315	463393		
92557062009	**YGWC-28S**	EPA 9315	463393		
92557062010	**YGWC-28I**	EPA 9315	463393		
92557062011	**YGWC-29I**	EPA 9315	463393		
92557062012	**AP-2-DUP-1**	EPA 9315	463393		
92557062001	**AP-2-EB-1**	EPA 9320	463391		
92557062002	**AP-2-FB-1**	EPA 9320	463391		
92557062003	**YGWC-26S**	EPA 9320	463391		
92557062004	**YGWC-26I**	EPA 9320	463391		
92557062005	**AP-2-EB-2**	EPA 9320	463391		
92557062006	**AP-2-FB-2**	EPA 9320	463391		
92557062007	**YGWC-27S**	EPA 9320	463391		
92557062008	**YGWC-27I**	EPA 9320	463391		
92557062009	**YGWC-28S**	EPA 9320	463391		
92557062010	**YGWC-28I**	EPA 9320	463391		
92557062011	**YGWC-29I**	EPA 9320	463391		
92557062012	**AP-2-DUP-1**	EPA 9320	463391		
92557062001	**AP-2-EB-1**	Total Radium Calculation	464971		
92557062002	**AP-2-FB-1**	Total Radium Calculation	464971		
92557062003	**YGWC-26S**	Total Radium Calculation	464971		
92557062004	**YGWC-26I**	Total Radium Calculation	464971		
92557062005	**AP-2-EB-2**	Total Radium Calculation	464972		
92557062006	**AP-2-FB-2**	Total Radium Calculation	464972		
92557062007	**YGWC-27S**	Total Radium Calculation	464972		
92557062008	**YGWC-27I**	Total Radium Calculation	464972		
92557062009	**YGWC-28S**	Total Radium Calculation	464972		
92557062010	**YGWC-28I**	Total Radium Calculation	464972		
92557062011	**YGWC-29I**	Total Radium Calculation	464972		
92557062012	**AP-2-DUP-1**	Total Radium Calculation	464973		

REPORT OF LABORATORY ANALYSIS

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: G+ Power

Project #: **WO# : 92557062**

92557062

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ Other: ☐ USPS ☑ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 8/25/21 SM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☐ IR Gun ID: 203

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.0 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 2.0

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

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?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☐ Yes	☑ No	☐ N/A	9. YGWC 26I collection time 1453
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ 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.

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

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

Project #

WO# : 92557062

PM: NMG Due Date: 09/13/21

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)	BP4C-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 Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 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		1	1			1	✓																	2	✓			
2		1	1			1	✓																	2	✓			
3		1	1			1	✓																	2	✓			
4		1	1			1	✓																	2	✓			
5		1	1			1	✓																	2	✓			
6		1	1			1	✓																	2	✓			
7		1	1			1	✓																	2	✓			
8		1	1			1	✓																	2	✓			
9		1	1			1	✓																	3				
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.

Page : 1 of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	SCS and Arcadis Contacts	Purchase Order #:		Pace Quote:	
Phone:	Fax:	Project Name:	Yates AP-2 Down to-	Pace Project Manager:	Kevin Herring/Nicole D'oleo
Requested Due Date:	10 Day	Project Number:		Pace Profile #:	10840

Regulatory Agency
CCR
State / Location
GA

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS 2540C	Anions Suite 300.0	App III Metals	App IV Metals (1b,1f)	Radium 226/228 9315/9320	Residual Chlorine (Y/N)	
1	~~AP2EB-1~~ JD AP-2-EB-1	WT	G	8/20	1020														x	x	x	x	x		pH 001
2	~~AP2EB-2~~	WT	G																x	x	x	x	x		pH
3	~~AP2FB-1~~ JD AP-2-FB-1	WT	G	8/17	1520														x	x	x	x	x		pH 002
4	~~AP2FB-2~~	WT	G																x	x	x	x	x		pH
5	YGWC-26S	WT	G	8/19	1625				5	✓		✓							x	x	x	x	x		pH 5.12 003
6	YGWC-28I	WT	G	~~8/19~~	~~1625~~ 8/20	1020			5	✓		✓							x	x	x	x	x		pH ~~5.12~~ 15 5.78 004
7	~~AP2DUP-1~~	WT	G																x	x	x	x	x		pH
8	~~YGWC-26S~~	WT	G																x	x	x	x	x		pH
9	~~YGWC-28I~~	WT	G																x	x	x	x	x		pH
10	~~YGWC-28S~~	WT	G																x	x	x	x	x		pH
11	~~YGWC-28D~~	WT	G																x	x	x	x	x		pH
12	~~YGWC-29I~~	WT	G																x	x	x	x	x		pH

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	JS	8/20	1730		8/20/12	1730	5.0	Y	N	Y

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Jake Swanson		
SIGNATURE of SAMPLER:		DATE Signed:	8/20/2012

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 : 2 of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	SCS and Arcadis Contacts	Purchase Order #		Pace Quote:	
Phone:	Fax:	Project Name:	Yates AP-2 DG	Pace Project Manager:	Kevin Herring/Nicole D'oleo
Requested Due Date:	10 Day	Project Number:		Pace Profile #:	10840

Regulatory Agency
CCR
State / Location
GA

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS 2450C	Anions Suite 300.0	App III Metals	App IV Metals (No Tl)	Radium 226/228, 9315/9320	Residual Chlorine (Y/N)	
1	[redacted]	WT	G																x	x	x	x	x		pH
2	AP-2-EB-2	WT	G																x	x	x	x	x		pH
3	[redacted]	WT	G																x	x	x	x	x		pH 005
4	AP-2-FB-2	WT	G																x	x	x	x	x		pH
5	[redacted]	WT	G																x	x	x	x	x		pH 006
6	[redacted]	WT	G																x	x	x	x	x		pH
7	AP-2-DUP-1	WT	G		—														x	x	x	x	x		pH
8	YGWC-27S	WT	G	8/20	1354														x	x	x	x	x		pH 6.18 007
9	YGWC-27I	WT	G	8/20	1453														x	x	x	x	x		pH 6.17 008
10	YGWC-28S	WT	G	8/20	1124														x	x	x	x	x		pH 6.38 009
11	YGWC-28I	WT	G	8/20	1229														x	x	x	x	x		pH 6.23 010
12	YGWC-29I	WT	G	8/20	938														x	x	x	x	x		pH 6.07 011

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	[signature]	8/20	1730	[signature]	8/20/21	1730

SAMPLE CONDITIONS

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

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Christ

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/20/21

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	LAL
Date:	9/13/2021
Worklist:	62587
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2237295
MB concentration:	0.056
M/B Counting Uncertainty:	0.118
MB MDC:	0.276
MB Numerical Performance Indicator:	0.93
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS62587	LCSD62587
Count Date:	9/20/2021	9/20/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.034	24.034
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.502	0.524
Target Conc. (pCi/L, g, F):	4.787	4.586
Uncertainty (Calculated):	0.057	0.055
Result (pCi/L, g, F):	5.465	4.582
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.589	0.525
Numerical Performance Indicator:	2.25	-0.01
Percent Recovery:	114.16%	99.92%
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		
Sample I.D.:	LCS62587	92557062001
Duplicate Sample I.D.	LCSD62587	92557062001DUP
Sample Result (pCi/L, g, F):	5.465	0.067
Sample Result Counting Uncertainty (pCi/L, g, F):	0.589	0.125
Sample Duplicate Result (pCi/L, g, F):	4.582	0.253
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.525	0.173
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	2.193	-1.708
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	13.30%	116.14%
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 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:

~~***Batch must be re-prepped due to unacceptable precision.~~ N/A
LAM 9/21/21

LAM 9/21/21

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test: Ra-228
Analyst: JC2
Date: 9/15/2021
Worklist: 62586
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2237294
MB concentration:	0.204
M/B 2 Sigma CSU:	0.288
MB MDC:	0.618
MB Numerical Performance Indicator:	1.39
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS62586	LCSD62586
Count Date:	9/17/2021	9/17/2021
Spike I.D.:	21-029	21-029
Decay Corrected Spike Concentration (pCi/mL):	38.188	38.188
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.805	0.805
Target Conc. (pCi/L, g, F):	4.744	4.742
Uncertainty (Calculated):	0.232	0.232
Result (pCi/L, g, F):	4.633	3.778
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.070	0.892
Numerical Performance Indicator:	-0.20	-2.05
Percent Recovery:	97.66%	79.67%
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.:	LCS62586	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD62586	
Sample Result (pCi/L, g, F):	4.633	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.070	
Sample Duplicate Result (pCi/L, g, F):	3.778	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.892	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.202	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	20.29%	
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:

9/20/21

9/20/21

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

October 01, 2021

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

RE: Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between August 20, 2021 and September 03, 2021. 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
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
Samantha Thomas
Maribel Vital

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

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 #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92557070001	**UP-DUP-1**	Water	08/20/21 00:00	08/20/21 17:30
92557070002	**GWA-2**	Water	08/20/21 12:00	08/20/21 17:30
92557070003	**YGWA-14S**	Water	08/19/21 11:00	08/20/21 17:30
92557070004	**UP-DUP-2**	Water	08/19/21 00:00	08/20/21 17:30
92557070005	**YGWA-1D**	Water	08/19/21 11:10	08/20/21 17:30
92557070006	**YGWA-1I**	Water	08/19/21 12:49	08/20/21 17:30
92557070007	**YGWA-3D**	Water	08/19/21 14:45	08/20/21 17:30
92557070008	**YGWA-47**	Water	08/19/21 10:26	08/20/21 17:30
92557070009	**YGWA-30I**	Water	08/19/21 12:20	08/20/21 17:30
92557719005	**YGWA-39**	Water	08/26/21 12:30	08/27/21 16:40
92558240001	**UP-FB-2**	Water	08/26/21 17:10	08/27/21 16:40
92558240002	**YGWA-4I**	Water	08/26/21 11:29	08/27/21 16:40
92558240003	**YGWA-5I**	Water	08/26/21 16:28	08/27/21 16:40
92558240004	**UP-DUP-3**	Water	08/26/21 00:00	08/27/21 16:40
92558240005	**YGWA-5D**	Water	08/26/21 13:35	08/27/21 16:40
92558240006	**YGWA-17S**	Water	08/27/21 10:45	08/27/21 16:40
92558240007	**YGWA-18S**	Water	08/26/21 15:35	08/27/21 16:40
92558240008	**YGWA-18I**	Water	08/27/21 09:35	08/27/21 16:40
92558240009	**YGWA-20S**	Water	08/27/21 13:10	08/27/21 16:40
92558240014	**YGWA-21I**	Water	09/01/21 14:40	09/02/21 17:02
92559523001	**YGWA-40**	Water	09/03/21 10:20	09/03/21 17:30
92558238001	**YGWA-2I**	Water	08/27/21 11:33	08/27/21 16:40
92558238002	**YGWA-3I**	Water	08/27/21 09:55	08/27/21 16:40

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92557070001	**UP-DUP-1**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557070002	**GWA-2**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557070003	**YGWA-14S**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557070004	**UP-DUP-2**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557070005	**YGWA-1D**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557070006	**YGWA-1I**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557070007	**YGWA-3D**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557070008	**YGWA-47**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557070009	**YGWA-30I**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557719005	**YGWA-39**	EPA 9315	CLA	1	PASI-PA
		EPA 9320	JC2	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92558240001	**UP-FB-2**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92558240002	**YGWA-4I**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92558240003	**YGWA-5I**	EPA 9315	LAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92558240004	**UP-DUP-3**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92558240005	**YGWA-5D**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92558240006	**YGWA-17S**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92558240007	**YGWA-18S**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92558240008	**YGWA-18I**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92558240009	**YGWA-20S**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92558240014	**YGWA-21I**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92559523001	**YGWA-40**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92558238001	**YGWA-2I**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92558238002	**YGWA-3I**	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92557070001	**UP-DUP-1**					
EPA 9315	Radium-226	0.325 ± 0.195 (0.307) C:88% T:NA	pCi/L		09/20/21 15:28	
EPA 9320	Radium-228	0.333 ± 0.342 (0.704) C:73% T:85%	pCi/L		09/17/21 14:11	
Total Radium Calculation	Total Radium	0.658 ± 0.537 (1.01)	pCi/L		09/21/21 16:29	
92557070002	**GWA-2**					
EPA 9315	Radium-226	0.0454 ± 0.104 (0.246) C:86% T:NA	pCi/L		09/20/21 15:28	
EPA 9320	Radium-228	0.483 ± 0.364 (0.713) C:74% T:88%	pCi/L		09/17/21 14:11	
Total Radium Calculation	Total Radium	0.528 ± 0.468 (0.959)	pCi/L		09/21/21 16:29	
92557070003	**YGWA-14S**					
EPA 9315	Radium-226	0.00466 ± 0.157 (0.433) C:93% T:NA	pCi/L		09/20/21 15:28	
EPA 9320	Radium-228	0.781 ± 0.436 (0.776) C:74% T:80%	pCi/L		09/17/21 14:03	
Total Radium Calculation	Total Radium	0.786 ± 0.593 (1.21)	pCi/L		09/21/21 16:29	
92557070004	**UP-DUP-2**					
EPA 9315	Radium-226	0.111 ± 0.167 (0.360) C:99% T:NA	pCi/L		09/20/21 15:28	
EPA 9320	Radium-228	1.08 ± 0.491 (0.804) C:74% T:78%	pCi/L		09/17/21 14:03	
Total Radium Calculation	Total Radium	1.19 ± 0.658 (1.16)	pCi/L		09/21/21 16:29	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92557070005	**YGWA-1D**					
EPA 9315	Radium-226	0.276 ± 0.229 (0.401) C:93% T:NA	pCi/L		09/20/21 15:29	
EPA 9320	Radium-228	0.894 ± 0.489 (0.876) C:74% T:84%	pCi/L		09/17/21 14:25	
Total Radium Calculation	Total Radium	1.17 ± 0.718 (1.28)	pCi/L		09/21/21 16:29	
92557070006	**YGWA-1I**					
EPA 9315	Radium-226	0.0732 ± 0.237 (0.573) C:99% T:NA	pCi/L		09/21/21 08:07	
EPA 9320	Radium-228	-0.218 ± 0.601 (1.45) C:73% T:84%	pCi/L		09/17/21 17:11	
Total Radium Calculation	Total Radium	0.0732 ± 0.838 (2.02)	pCi/L		09/21/21 16:29	
92557070007	**YGWA-3D**					
EPA 9315	Radium-226	1.67 ± 0.511 (0.447) C:93% T:NA	pCi/L		09/21/21 08:07	
EPA 9320	Radium-228	1.86 ± 0.774 (1.22) C:70% T:83%	pCi/L		09/17/21 17:11	
Total Radium Calculation	Total Radium	3.53 ± 1.29 (1.67)	pCi/L		09/21/21 16:29	
92557070008	**YGWA-47**					
EPA 9315	Radium-226	0.309 ± 0.197 (0.329) C:88% T:NA	pCi/L		09/21/21 08:07	
EPA 9320	Radium-228	0.757 ± 0.724 (1.50) C:68% T:81%	pCi/L		09/17/21 17:12	
Total Radium Calculation	Total Radium	1.07 ± 0.921 (1.83)	pCi/L		09/21/21 16:29	

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SUMMARY OF DETECTION

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92557070009	**YGWA-30I**					
EPA 9315	Radium-226	0.234 ± 0.232 (0.450) C:95% T:NA	pCi/L		09/21/21 08:07	
EPA 9320	Radium-228	-0.0548 ± 0.544 (1.29) C:67% T:77%	pCi/L		09/17/21 17:12	
Total Radium Calculation	Total Radium	0.234 ± 0.776 (1.74)	pCi/L		09/21/21 16:29	
92557719005	**YGWA-39**					
EPA 9315	Radium-226	0.674 ± 0.261 (0.318) C:90% T:NA	pCi/L		09/21/21 09:36	
EPA 9320	Radium-228	-0.0610 ± 0.461 (1.09) C:74% T:82%	pCi/L		09/17/21 17:18	
Total Radium Calculation	Total Radium	0.674 ± 0.722 (1.41)	pCi/L		09/22/21 16:02	
92558240001	**UP-FB-2**					
EPA 9315	Radium-226	0.0312 ± 0.148 (0.376) C:98% T:NA	pCi/L		09/22/21 08:47	
EPA 9320	Radium-228	0.327 ± 0.417 (0.886) C:79% T:79%	pCi/L		09/20/21 14:36	
Total Radium Calculation	Total Radium	0.358 ± 0.565 (1.26)	pCi/L		09/24/21 14:36	
92558240002	**YGWA-4I**					
EPA 9315	Radium-226	0.752 ± 0.313 (0.359) C:94% T:NA	pCi/L		09/22/21 08:47	
EPA 9320	Radium-228	0.419 ± 0.429 (0.888) C:82% T:80%	pCi/L		09/20/21 14:36	
Total Radium Calculation	Total Radium	1.17 ± 0.742 (1.25)	pCi/L		09/24/21 14:36	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92558240003	**YGWA-5I**					
EPA 9315	Radium-226	0.173 ± 0.181 (0.351) C:91% T:NA	pCi/L		09/22/21 08:47	
EPA 9320	Radium-228	0.625 ± 0.402 (0.752) C:81% T:80%	pCi/L		09/20/21 14:36	
Total Radium Calculation	Total Radium	0.798 ± 0.583 (1.10)	pCi/L		09/24/21 14:36	
92558240004	**UP-DUP-3**					
EPA 9315	Radium-226	0.101 ± 0.197 (0.455) C:96% T:NA	pCi/L		09/22/21 08:47	
EPA 9320	Radium-228	0.620 ± 0.425 (0.816) C:81% T:80%	pCi/L		09/20/21 14:36	
Total Radium Calculation	Total Radium	0.721 ± 0.622 (1.27)	pCi/L		09/24/21 14:36	
92558240005	**YGWA-5D**					
EPA 9315	Radium-226	3.80 ± 0.816 (0.373) C:102% T:NA	pCi/L		09/22/21 08:47	
EPA 9320	Radium-228	0.883 ± 0.429 (0.726) C:80% T:82%	pCi/L		09/20/21 14:36	
Total Radium Calculation	Total Radium	4.68 ± 1.25 (1.10)	pCi/L		09/24/21 14:36	
92558240006	**YGWA-17S**					
EPA 9315	Radium-226	0.438 ± 0.263 (0.394) C:86% T:NA	pCi/L		09/22/21 08:47	
EPA 9320	Radium-228	0.462 ± 0.373 (0.739) C:81% T:81%	pCi/L		09/20/21 14:36	
Total Radium Calculation	Total Radium	0.900 ± 0.636 (1.13)	pCi/L		09/24/21 14:36	

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SUMMARY OF DETECTION

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92558240007	**YGWA-18S**					
EPA 9315	Radium-226	0.145 ± 0.161 (0.309) C:95% T:NA	pCi/L		09/22/21 08:47	
EPA 9320	Radium-228	0.541 ± 0.396 (0.768) C:77% T:84%	pCi/L		09/20/21 14:36	
Total Radium Calculation	Total Radium	0.686 ± 0.557 (1.08)	pCi/L		09/24/21 14:36	
92558240008	**YGWA-18I**					
EPA 9315	Radium-226	0.104 ± 0.171 (0.381) C:97% T:NA	pCi/L		09/22/21 08:45	
EPA 9320	Radium-228	0.657 ± 0.507 (1.01) C:73% T:84%	pCi/L		09/20/21 14:36	
Total Radium Calculation	Total Radium	0.761 ± 0.678 (1.39)	pCi/L		09/24/21 14:36	
92558240009	**YGWA-20S**					
EPA 9315	Radium-226	0.632 ± 0.313 (0.451) C:95% T:NA	pCi/L		09/22/21 08:11	
EPA 9320	Radium-228	0.147 ± 0.402 (0.898) C:74% T:84%	pCi/L		09/20/21 14:36	
Total Radium Calculation	Total Radium	0.779 ± 0.715 (1.35)	pCi/L		09/24/21 14:36	
92558240014	**YGWA-21I**					
EPA 9315	Radium-226	0.934 ± 0.290 (0.223) C:90% T:NA	pCi/L		09/22/21 09:39	
EPA 9320	Radium-228	0.924 ± 0.466 (0.823) C:76% T:81%	pCi/L		09/20/21 11:13	
Total Radium Calculation	Total Radium	1.86 ± 0.756 (1.05)	pCi/L		09/27/21 15:44	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92559523001	**YGWA-40**					
EPA 9315	Radium-226	0.350 ± 0.172 (0.206) C:91% T:NA	pCi/L		09/22/21 09:39	
EPA 9320	Radium-228	0.621 ± 0.450 (0.877) C:75% T:74%	pCi/L		09/20/21 11:13	
Total Radium Calculation	Total Radium	0.971 ± 0.622 (1.08)	pCi/L		09/24/21 14:38	
92558238001	**YGWA-2I**					
EPA 9315	Radium-226	0.284 ± 0.258 (0.500) C:96% T:NA	pCi/L		09/22/21 12:05	
EPA 9320	Radium-228	0.125 ± 0.379 (0.851) C:76% T:80%	pCi/L		09/20/21 11:11	
Total Radium Calculation	Total Radium	0.409 ± 0.637 (1.35)	pCi/L		09/24/21 14:37	
92558238002	**YGWA-3I**					
EPA 9315	Radium-226	1.01 ± 0.368 (0.461) C:97% T:NA	pCi/L		09/22/21 12:05	
EPA 9320	Radium-228	0.328 ± 0.385 (0.811) C:81% T:81%	pCi/L		09/20/21 11:12	
Total Radium Calculation	Total Radium	1.34 ± 0.753 (1.27)	pCi/L		09/24/21 14:37	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: UP-DUP-1 **Lab ID: 92557070001** Collected: 08/20/21 00:00 Received: 08/20/21 17:30 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	**0.325 ± 0.195 (0.307) C:88% T:NA**	pCi/L	09/20/21 15:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.333 ± 0.342 (0.704) C:73% T:85%**	pCi/L	09/17/21 14:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.658 ± 0.537 (1.01)**	pCi/L	09/21/21 16:29	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: GWA-2 **Lab ID: 92557070002** Collected: 08/20/21 12:00 Received: 08/20/21 17:30 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	**0.0454 ± 0.104 (0.246) C:86% T:NA**	pCi/L	09/20/21 15:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.483 ± 0.364 (0.713) C:74% T:88%**	pCi/L	09/17/21 14:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.528 ± 0.468 (0.959)**	pCi/L	09/21/21 16:29	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-14S **Lab ID: 92557070003** Collected: 08/19/21 11:00 Received: 08/20/21 17:30 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	**0.00466 ± 0.157 (0.433) C:93% T:NA**	pCi/L	09/20/21 15:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.781 ± 0.436 (0.776) C:74% T:80%**	pCi/L	09/17/21 14:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.786 ± 0.593 (1.21)**	pCi/L	09/21/21 16:29	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: UP-DUP-2 **Lab ID: 92557070004** Collected: 08/19/21 00:00 Received: 08/20/21 17:30 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	**0.111 ± 0.167 (0.360) C:99% T:NA**	pCi/L	09/20/21 15:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.08 ± 0.491 (0.804) C:74% T:78%**	pCi/L	09/17/21 14:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.19 ± 0.658 (1.16)**	pCi/L	09/21/21 16:29	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-1D **Lab ID: 92557070005** Collected: 08/19/21 11:10 Received: 08/20/21 17:30 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	**0.276 ± 0.229 (0.401) C:93% T:NA**	pCi/L	09/20/21 15:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.894 ± 0.489 (0.876) C:74% T:84%**	pCi/L	09/17/21 14:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.17 ± 0.718 (1.28)**	pCi/L	09/21/21 16:29	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-1I **Lab ID: 92557070006** Collected: 08/19/21 12:49 Received: 08/20/21 17:30 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	**0.0732 ± 0.237 (0.573) C:99% T:NA**	pCi/L	09/21/21 08:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.218 ± 0.601 (1.45) C:73% T:84%**	pCi/L	09/17/21 17:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0732 ± 0.838 (2.02)**	pCi/L	09/21/21 16:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-3D **Lab ID: 92557070007** Collected: 08/19/21 14:45 Received: 08/20/21 17:30 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	**1.67 ± 0.511 (0.447) C:93% T:NA**	pCi/L	09/21/21 08:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.86 ± 0.774 (1.22) C:70% T:83%**	pCi/L	09/17/21 17:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.53 ± 1.29 (1.67)**	pCi/L	09/21/21 16:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-47 **Lab ID: 92557070008** Collected: 08/19/21 10:26 Received: 08/20/21 17:30 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	**0.309 ± 0.197 (0.329) C:88% T:NA**	pCi/L	09/21/21 08:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.757 ± 0.724 (1.50) C:68% T:81%**	pCi/L	09/17/21 17:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.07 ± 0.921 (1.83)**	pCi/L	09/21/21 16:29	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-30I **Lab ID: 92557070009** Collected: 08/19/21 12:20 Received: 08/20/21 17:30 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	**0.234 ± 0.232 (0.450) C:95% T:NA**	pCi/L	09/21/21 08:07	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0548 ± 0.544 (1.29) C:67% T:77%**	pCi/L	09/17/21 17:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.234 ± 0.776 (1.74)**	pCi/L	09/21/21 16:29	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-39 **Lab ID: 92557719005** Collected: 08/26/21 12:30 Received: 08/27/21 16:40 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	**0.674 ± 0.261 (0.318) C:90% T:NA**	pCi/L	09/21/21 09:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0610 ± 0.461 (1.09) C:74% T:82%**	pCi/L	09/17/21 17:18	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.674 ± 0.722 (1.41)**	pCi/L	09/22/21 16:02	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: UP-FB-2 **Lab ID: 92558240001** Collected: 08/26/21 17:10 Received: 08/27/21 16:40 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	**0.0312 ± 0.148 (0.376) C:98% T:NA**	pCi/L	09/22/21 08:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.327 ± 0.417 (0.886) C:79% T:79%**	pCi/L	09/20/21 14:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.358 ± 0.565 (1.26)**	pCi/L	09/24/21 14:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-4I **Lab ID: 92558240002** Collected: 08/26/21 11:29 Received: 08/27/21 16:40 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	**0.752 ± 0.313 (0.359) C:94% T:NA**	pCi/L	09/22/21 08:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.419 ± 0.429 (0.888) C:82% T:80%**	pCi/L	09/20/21 14:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.17 ± 0.742 (1.25)**	pCi/L	09/24/21 14:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-5I **Lab ID: 92558240003** Collected: 08/26/21 16:28 Received: 08/27/21 16:40 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	**0.173 ± 0.181 (0.351) C:91% T:NA**	pCi/L	09/22/21 08:47	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 9320	**0.625 ± 0.402 (0.752) C:81% T:80%**	pCi/L	09/20/21 14:36	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**0.798 ± 0.583 (1.10)**	pCi/L	09/24/21 14:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: UP-DUP-3 **Lab ID: 92558240004** Collected: 08/26/21 00:00 Received: 08/27/21 16:40 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	**0.101 ± 0.197 (0.455) C:96% T:NA**	pCi/L	09/22/21 08:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.620 ± 0.425 (0.816) C:81% T:80%**	pCi/L	09/20/21 14:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.721 ± 0.622 (1.27)**	pCi/L	09/24/21 14:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-5D **Lab ID: 92558240005** Collected: 08/26/21 13:35 Received: 08/27/21 16:40 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	**3.80 ± 0.816 (0.373) C:102% T:NA**	pCi/L	09/22/21 08:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.883 ± 0.429 (0.726) C:80% T:82%**	pCi/L	09/20/21 14:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**4.68 ± 1.25 (1.10)**	pCi/L	09/24/21 14:36	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-17S **Lab ID: 92558240006** Collected: 08/27/21 10:45 Received: 08/27/21 16:40 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	**0.438 ± 0.263 (0.394) C:86% T:NA**	pCi/L	09/22/21 08:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.462 ± 0.373 (0.739) C:81% T:81%**	pCi/L	09/20/21 14:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.900 ± 0.636 (1.13)**	pCi/L	09/24/21 14:36	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-18S **Lab ID: 92558240007** Collected: 08/26/21 15:35 Received: 08/27/21 16:40 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	**0.145 ± 0.161 (0.309) C:95% T:NA**	pCi/L	09/22/21 08:47	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.541 ± 0.396 (0.768) C:77% T:84%**	pCi/L	09/20/21 14:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.686 ± 0.557 (1.08)**	pCi/L	09/24/21 14:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-18I **Lab ID: 92558240008** Collected: 08/27/21 09:35 Received: 08/27/21 16:40 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	**0.104 ± 0.171 (0.381) C:97% T:NA**	pCi/L	09/22/21 08:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.657 ± 0.507 (1.01) C:73% T:84%**	pCi/L	09/20/21 14:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.761 ± 0.678 (1.39)**	pCi/L	09/24/21 14:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-20S **Lab ID: 92558240009** Collected: 08/27/21 13:10 Received: 08/27/21 16:40 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	**0.632 ± 0.313 (0.451) C:95% T:NA**	pCi/L	09/22/21 08:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.147 ± 0.402 (0.898) C:74% T:84%**	pCi/L	09/20/21 14:36	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.779 ± 0.715 (1.35)**	pCi/L	09/24/21 14:36	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-21I **Lab ID: 92558240014** Collected: 09/01/21 14:40 Received: 09/02/21 17:02 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	**0.934 ± 0.290 (0.223) C:90% T:NA**	pCi/L	09/22/21 09:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.924 ± 0.466 (0.823) C:76% T:81%**	pCi/L	09/20/21 11:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.86 ± 0.756 (1.05)**	pCi/L	09/27/21 15:44	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-40 **Lab ID: 92559523001** Collected: 09/03/21 10:20 Received: 09/03/21 17:30 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	**0.350 ± 0.172 (0.206) C:91% T:NA**	pCi/L	09/22/21 09:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.621 ± 0.450 (0.877) C:75% T:74%**	pCi/L	09/20/21 11:13	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.971 ± 0.622 (1.08)**	pCi/L	09/24/21 14:38	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-2I **Lab ID: 92558238001** Collected: 08/27/21 11:33 Received: 08/27/21 16:40 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	**0.284 ± 0.258 (0.500) C:96% T:NA**	pCi/L	09/22/21 12:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.125 ± 0.379 (0.851) C:76% T:80%**	pCi/L	09/20/21 11:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.409 ± 0.637 (1.35)**	pCi/L	09/24/21 14:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Sample: YGWA-3I **Lab ID: 92558238002** Collected: 08/27/21 09:55 Received: 08/27/21 16:40 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	**1.01 ± 0.368 (0.461) C:97% T:NA**	pCi/L	09/22/21 12:05	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.328 ± 0.385 (0.811) C:81% T:81%**	pCi/L	09/20/21 11:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.34 ± 0.753 (1.27)**	pCi/L	09/24/21 14:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

QC Batch: 463915
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92558238001, 92558238002, 92558240014, 92559523001

METHOD BLANK: 2239836 Matrix: Water
Associated Lab Samples: 92558238001, 92558238002, 92558240014, 92559523001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0847 ± 0.121 (0.363) C:95% T:NA	pCi/L	09/22/21 09:35	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

QC Batch: 463401 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92557070001, 92557070002, 92557070003, 92557070004, 92557070005, 92557070006, 92557070007, 92557070008, 92557070009, 92557719005

METHOD BLANK: 2237310 Matrix: Water
Associated Lab Samples: 92557070001, 92557070002, 92557070003, 92557070004, 92557070005, 92557070006, 92557070007, 92557070008, 92557070009, 92557719005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0856 ± 0.0647 (0.268) C:96% T:NA	pCi/L	09/20/21 15:28	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

QC Batch: 463405 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92558240001, 92558240002, 92558240003, 92558240004, 92558240005, 92558240006, 92558240007, 92558240008, 92558240009

METHOD BLANK: 2237315 Matrix: Water
Associated Lab Samples: 92558240001, 92558240002, 92558240003, 92558240004, 92558240005, 92558240006, 92558240007, 92558240008, 92558240009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0923 ± 0.177 (0.406) C:93% T:NA	pCi/L	09/22/21 08:46	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

QC Batch: 463403 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92558240001, 92558240002, 92558240003, 92558240004, 92558240005, 92558240006, 92558240007, 92558240008, 92558240009

METHOD BLANK: 2237313 Matrix: Water
Associated Lab Samples: 92558240001, 92558240002, 92558240003, 92558240004, 92558240005, 92558240006, 92558240007, 92558240008, 92558240009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.433 ± 0.419 (0.858) C:81% T:72%	pCi/L	09/20/21 14:35	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

QC Batch: 463914
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92558238001, 92558238002, 92558240014, 92559523001

METHOD BLANK: 2239835 Matrix: Water
Associated Lab Samples: 92558238001, 92558238002, 92558240014, 92559523001

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.493 ± 0.373 (0.728) C:78% T:74%	pCi/L	09/20/21 11:12	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

QC Batch: 463398
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92557070001, 92557070002, 92557070003, 92557070004, 92557070005, 92557070006, 92557070007, 92557070008, 92557070009, 92557719005

METHOD BLANK: 2237303 Matrix: Water
Associated Lab Samples: 92557070001, 92557070002, 92557070003, 92557070004, 92557070005, 92557070006, 92557070007, 92557070008, 92557070009, 92557719005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.384 ± 0.355 (0.721) C:77% T:80%	pCi/L	09/17/21 14:10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

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.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92557070001	UP-DUP-1	EPA 9315	463401		
92557070002	GWA-2	EPA 9315	463401		
92557070003	YGWA-14S	EPA 9315	463401		
92557070004	UP-DUP-2	EPA 9315	463401		
92557070005	YGWA-1D	EPA 9315	463401		
92557070006	YGWA-1I	EPA 9315	463401		
92557070007	YGWA-3D	EPA 9315	463401		
92557070008	YGWA-47	EPA 9315	463401		
92557070009	YGWA-30I	EPA 9315	463401		
92557719005	YGWA-39	EPA 9315	463401		
92558238001	YGWA-2I	EPA 9315	463915		
92558238002	YGWA-3I	EPA 9315	463915		
92558240001	UP-FB-2	EPA 9315	463405		
92558240002	YGWA-4I	EPA 9315	463405		
92558240003	YGWA-5I	EPA 9315	463405		
92558240004	UP-DUP-3	EPA 9315	463405		
92558240005	YGWA-5D	EPA 9315	463405		
92558240006	YGWA-17S	EPA 9315	463405		
92558240007	YGWA-18S	EPA 9315	463405		
92558240008	YGWA-18I	EPA 9315	463405		
92558240009	YGWA-20S	EPA 9315	463405		
92558240014	YGWA-21I	EPA 9315	463915		
92559523001	YGWA-40	EPA 9315	463915		
92557070001	UP-DUP-1	EPA 9320	463398		
92557070002	GWA-2	EPA 9320	463398		
92557070003	YGWA-14S	EPA 9320	463398		
92557070004	UP-DUP-2	EPA 9320	463398		
92557070005	YGWA-1D	EPA 9320	463398		
92557070006	YGWA-1I	EPA 9320	463398		
92557070007	YGWA-3D	EPA 9320	463398		
92557070008	YGWA-47	EPA 9320	463398		
92557070009	YGWA-30I	EPA 9320	463398		
92557719005	YGWA-39	EPA 9320	463398		
92558238001	YGWA-2I	EPA 9320	463914		
92558238002	YGWA-3I	EPA 9320	463914		
92558240001	UP-FB-2	EPA 9320	463403		
92558240002	YGWA-4I	EPA 9320	463403		
92558240003	YGWA-5I	EPA 9320	463403		
92558240004	UP-DUP-3	EPA 9320	463403		
92558240005	YGWA-5D	EPA 9320	463403		
92558240006	YGWA-17S	EPA 9320	463403		
92558240007	YGWA-18S	EPA 9320	463403		
92558240008	YGWA-18I	EPA 9320	463403		
92558240009	YGWA-20S	EPA 9320	463403		
92558240014	YGWA-21I	EPA 9320	463914		

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92559523001	**YGWA-40**	EPA 9320	463914		
92557070001	**UP-DUP-1**	Total Radium Calculation	464972		
92557070002	**GWA-2**	Total Radium Calculation	464972		
92557070003	**YGWA-14S**	Total Radium Calculation	464972		
92557070004	**UP-DUP-2**	Total Radium Calculation	464972		
92557070005	**YGWA-1D**	Total Radium Calculation	464972		
92557070006	**YGWA-1I**	Total Radium Calculation	464973		
92557070007	**YGWA-3D**	Total Radium Calculation	464973		
92557070008	**YGWA-47**	Total Radium Calculation	464973		
92557070009	**YGWA-30I**	Total Radium Calculation	464973		
92557719005	**YGWA-39**	Total Radium Calculation	465155		
92558238001	**YGWA-2I**	Total Radium Calculation	465555		
92558238002	**YGWA-3I**	Total Radium Calculation	465555		
92558240001	**UP-FB-2**	Total Radium Calculation	465554		
92558240002	**YGWA-4I**	Total Radium Calculation	465554		
92558240003	**YGWA-5I**	Total Radium Calculation	465554		
92558240004	**UP-DUP-3**	Total Radium Calculation	465554		
92558240005	**YGWA-5D**	Total Radium Calculation	465554		
92558240006	**YGWA-17S**	Total Radium Calculation	465554		
92558240007	**YGWA-18S**	Total Radium Calculation	465554		
92558240008	**YGWA-18I**	Total Radium Calculation	465554		
92558240009	**YGWA-20S**	Total Radium Calculation	465554		
92558240014	**YGWA-21I**	Total Radium Calculation	465783		
92559523001	**YGWA-40**	Total Radium Calculation	465559		

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	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# : 92557089

92557089

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 8/23/21 cm

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 083 ☑ Wet ☐ Blue ☐ None

Type of Ice:

Cooler Temp: 2.0 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 2.0

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

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?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☐ Yes	☑ No	☐ N/A	9. EB-1 + FB-1 Collection time not listed on COC but containers are on AP2 Work Order
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ 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.

Page : 1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Georgia Power	Report To: SCS Contacts	Attention: Southern Co.
Address: Atlanta, GA	Copy To: Arcadis Contacts	Company Name:
		Address:
Email To: SCS and Arcadis Contacts	Purchase Order #: UPGRADIENT	Pace Quote:
Phone: Fax:	Project Name: ~~Yates Gypsum Pond Groundwater~~	Pace Project Manager: Kevin Herring/Nicole D'Oleo
Requested Due Date: 10 Day	Project Number:	Pace Profile #: 10840

Regulatory Agency
CCR
State / Location
GA

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: TDS 2450C	Anions Suite 300.0	App III Metals	App IV Metals	Mercury 7470A	Radium 226/228 9315/9320	App I and III Metals 6020B Ca, Ni, Ag, Tl, V, Zn	Residual Chlorine (Y/N)	
1	UP-DUP-1	WT	G	8/20	—														x	x	x	x	x	x	x		pH 5.86
2	GWA-2	WT	G	8/20	1200					5	✓		✓						x	x	x	x	x	x	x		pH 5.36
3		WT	G																								
4		WT	G																								
5		WT	G																								
6		WT	G																								
7		WT	G																								
8		WT	G																								
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)	/Arcadis	8/20	1730		8/20/21	1745	5.0	Y	N	Y
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), Thallium (Tl)										

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Jake Swanson		
SIGNATURE of SAMPLER:		DATE Signed:	8/20/21

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

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Page : 2 Of 4

Section A	Section B	Section C
Required Client Information:	Required Project Information:	Invoice Information:
Company: Arcadis (GA Power)	Report To: Becky Steever	Attention:
Address: 2839 Paces Ferry Rd	Copy To:	Company Name:
Suite 900, Atlanta, GA 30339		Address:
Email:	Purchase Order #:	Pace Quote:
Phone: Fax:	Project Name: ~~Yates 316-2~~ UG	Pace Project Manager: nicole.d'oleo@pacelabs.com
Requested Due Date:	Project #:	Pace Profile #: 10840

Regulatory Agency:

State / Location: GA

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Analysis Test: TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)
1	~~AP-2-EB-1~~	WT		~~8/20~~	1070	8/20			5	✓		✓							X	X	X	X	—
2	~~AP-2-EB-2~~	WT																	X	X	X	X	
3	AP-2-FB-1	WT		8/19	1530	8/20			5	✓		✓							X	X	X	X	—
4	~~AP-2-FB-2~~	WT																	X	X	X	X	
5	~~YGWA-1I~~	WT																	X	X	X	X	
6	~~YGWA-1D~~	WT																	X	X	X	X	
7	~~YGWA-2I~~	WT																	X	X	X	X	
8	~~MGWA-3I~~	WT																	X	X	X	X	
9	~~YGWA-3D~~	WT																	X	X	X	X	
10	YGWA-14S	WT		8/19	~~1332~~		1100		4	✓		✓							X	X	X	X	Ph: 7.32
11	UP-DUP-2	WT		8/19	—				4	✓		✓							X	X	X	X	—
12	~~YGWA-9S~~	WT																	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)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
		8/20	1730		8/21/12	1732	5.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER: [signature]

DATE Signed: 8/20/12

Pace Analytical®

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 2 Of 4

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Arcadis (GA Power)	Report To: Becky Steever	Attention:
Address: 2839 Paces Ferry Rd	Copy To:	Company Name:
Suite 900, Atlanta, GA 30339		Address:
Email:	Purchase Order #:	Pace Quote:
Phone: Fax:	Project Name: ~~Yates~~-2 UG	Pace Project Manager: nicole d'oleo@pacelabs.com
Requested Due Date:	Project #:	Pace Profile #: 10840

Regulatory Agency:

State / Location: GA

Matrix codes: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS

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)

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)	
1	~~AP-PEB-1~~	WT		8/20	1020	JS			5	✓		✓							x	x	x	x		—
2	~~AP-2-EB-2~~	WT																	x	x	x	x		
3	AP-2-FB-1	WT		8/17	1530	JS			5	✓		✓							x	x	x	x		—
4	~~AP-2-EB-2~~	WT																	x	x	x	x		
5	~~YGWA-11~~	WT																	x	x	x	x		
6	~~YGWA-1D~~	WT																	x	x	x	x		
7	~~YGWA-21~~	WT																	x	x	x	x		
8	~~YGWA-3I~~	WT																	x	x	x	x		
9	~~YGWA-3D~~	WT																	x	x	x	x		
10	YGWA-14S	WT		8/19	~~[illegible]~~		1100		4	✓		✓							x	x	x	x		Ph: 7.32
11	UP-DUP-2	WT		8/19	—				4	✓		✓							x	x	x	x		—
12	~~YGWA-~~ JS YGWA-30I	WT		8/19	1220				4	✓		✓							x	x	x	x		PH: 5.43 JS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature]	8/20	1730	[signature]	8/20/21	1732	5.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/20/2

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: 3 of 4

Section A — Required Client Information:
- Company: Georgia Power
- Address: Atlanta, GA
- Email To: SCS and Arcadis Contacts
- Phone:
- Fax:
- Requested Due Date: 10 Day

Section B — Required Project Information:
- Report To: SCS Contacts
- Copy To: Arcadis Contacts
- Purchase Order #:
- Project Name: ~~Yates AP-2~~ ~~[illegible]~~
- Project Number: UPGRADIENT

Section C — Invoice Information:
- Attention: Southern Co.
- Company Name:
- Address:
- Pace Quote:
- Pace Project Manager: Kevin Herring/Nicole D'oleo
- Pace Profile #: 10840

Regulatory Agency: CCR

State / Location: GA

Matrix codes: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS

SAMPLE ID: One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

Requested Analysis Filtered (Y/N): App IV Metals (No Tl) - OR Mercury

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	TDS: 2450C	Anions Suite 300.0	App III Metals	App IV Metals (No Tl)	Radium 226/228 9315/9320	pH
1	~~[illegible]~~	WT	G			x	x	x	x	x	
2	~~AP-2-EB-2~~	WT	G			x	x	x	x	x	
3	~~[illegible]~~	WT	G			x	x	x	x	x	
4	~~[illegible]~~	WT	G			x	x	x	x	x	
5	~~[illegible]~~ YGWA-1D	WT	G	8/19	1110	x	x	x	x	x	6.32
6	~~[illegible]~~ YGWA-1I	WT	G	8/19	1249	x	x	x	x	x	6.38
7	~~[illegible]~~ YGWA-3D	WT	G	8/19	1445	x	x	x	x	x	5.34
8	~~[illegible]~~	WT	G			x	x	x	x	x	
9	~~[illegible]~~	WT	G			x	x	x	x	x	
10	~~YGWC-28S~~	WT	G	~~8/20~~	~~1124~~	x	x	x	x	x	
11	~~[illegible]~~	WT	G			x	x	x	x	x	
12	~~YGWC-29I~~	WT	G	~~8/20~~	~~938~~	x	x	x	x	x	

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)
	[signature]	8/20	1730	[signature]	8/20/21	1740	5.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chesk

SIGNATURE of SAMPLER: [signature]

DATE Signed: 8/20/21

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:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	Georgia Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order #:		Pace Quote:	
Phone:	Fax:	Project Name:	[redacted]-1 (upgradient)	Pace Project Manager:	Kevin Herring/Nicole D'Oleo
Requested Due Date:	10 Day	Project Number:		Pace Profile #:	10840

Regulatory Agency
CCR
State / Location
GA

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS 2450C	Anions Suite 300.0	App III Metals (B & Ca)	App IV Metals	Mercury: 7470A	Radium 228/226: 9315/9320	Residual Chlorine (Y/N)	
1	YGWA-47	WT	G	08/19	1005	08/19	1026			X		X							X	X	X	X	X	X		pH 5.50
2																										
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)	(Arcadis)	8/20	1730		8/20	1730	5.0	Y	N	Y
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), Thallium (Tl)										

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)

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	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#: 92557720

PM: NMG Due Date: 09/09/21

CLIENT: GA-GA Power

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other: ☑ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 8/27/21 CAH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083 ☑ Wet ☐ Blue ☐ None

Type of Ice:

Cooler Temp: 3.0 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): 3.0

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

Page : Of

Section A
Required Client Information:

Company:	Georgia Power
Address:	Atlanta, GA
Email To:	SCS and Arcadis Contacts
Phone:	Fax:
Requested Due Date:	10 Day

Section B
Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Yates AMA-R6 (downgradient)
Project Number:	

Section C
Invoice Information:

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

Regulatory Agency
CCR
State / Location
GA

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: TDS 2450C	Anions Suite 300.0	App III Metals	App IV Metals (No Tl)	Radium 228/226: 9315/9320	Alkalinity (2320B)	Cations (Na, K, Mg, Ca)	Mercury (7470A)	Residual Chlorine (Y/N)
1	~~YGWA-24~~	WT	G																							
2	YGWA-39	WT	G	8-26-21	1235					2		3						x	x	x	x	x			x	pH:
3	~~YGWA-40~~	WT	G															x	x	x	x	x			x	pH 6.91
4		WT	G															x	x	x	x	x			x	pH:
5		WT	G																							
6		WT	G																							
7		WT	G																							
8		WT	G																							
9		WT	G																							
10		WT	G																							
11		WT	G																							
12		WT	G																							

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Suite 300.0 (Cl, F, Ssulfate)	Kate Pipkiewicz / Arcadis	8.26.21	1410		8/26	1410
App III Metals: Boron 6020B, Ca 6010D		8/27	1640	Charlie Hunter	8/27/21	1640
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)						

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	Kate Pipkiewicz				
SIGNATURE of SAMPLER:		DATE Signed:	8-26-21		

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

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	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# : 92558251

92558251

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ Other: ☐ USPS ☑ Client

Custody Seal Present? ☐ Yes ☑ ~~No~~ Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 8/27/21 CAM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083

☑ Wet ☐ Blue ☐ None

Type of Ice:

Cooler Temp: 3.0 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 3.0

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

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

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Page : 1 Of

Section A — Required Client Information:

Company:	Georgia Power
Address:	Atlanta, GA
Email To:	SCS and Arcadis Contacts
Phone:	Fax:
Requested Due Date:	10 Day

Section B — Required Project Information:

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

Section C — Invoice Information:

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

Regulatory Agency	
	CCR
State / Location	
	GA

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS: 2450C	Anions Suite 300.0	App III Metals	App IV Metals (No Tl)	Radium 226/228: 9315/9320	Residual Chlorine (Y/N)
	YGWA-2I	WT	G	8/27/14	1133				4	X		X							X	X	X	X	X	pH 7.14
	YGWA-3I	WT	G	8/27/14	0955				4	X		X							X	X	X	X	X	pH 7.39

		DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/27/14	1440		8/27	1440	
App III Metals: Boron 6020B, Ca 6010D		8/27	1640		8/27	1640	
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)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chest

SIGNATURE of SAMPLER:

DATE Signed:

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

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	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# : 92558254

92558254

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☑ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 8/27/21 CAH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 083 ☑ Wet ☐ Blue ☐ None

Type of Ice:

Cooler Temp: 3.0 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): 3.0

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?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☐ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☐ Yes	☑ No	☐ N/A	9. AMA-EB-1 labeled UP-EB-1 but time match 8/26/21 1600
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ 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: _____

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Page : 1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Arcadis (GA Power)	Report To: Becky Steever	Attention:
Address: 2839 Paces Ferry Rd	Copy To:	Company Name:
Suite 900, Atlanta, GA 30339		Address:
Email:	Purchase Order #:	Pace Quote:
Phone: Fax:	Project Name: Yates AMA	Pace Project Manager: nicole.d'oleo@pacelabs.com
Requested Due Date:	Project #:	Pace Profile #: 10840

Regulatory Agency

State / Location: GA

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Alkalinity	Residual Chlorine (Y/N)	
1	AMA-EB-1	WT																	X	X	X	X			
2	AMA EB-2	WT																	X	X	X	X			
3	AMA-FB-1	WT																	X	X	X	X			
4	AMA-FB-2	WT																	X	X	X	X			
5	UP-EB-1	WT																	X	X	X	X			
6	UP-FB-1	WT		8/26/21	1710				5	X		X							X	X	X	X			
7	~~UP-EB-2~~	WT																	X	X	X	X			
8	UP-FB-2	WT																	X	X	X	X			
9	YGWA-4I	WT		8/26/21	1124				5	X		X							X	X	X	X		5.82	
10	YGWA-5I	WT		8/26/21	1628				5	X		X							X	X	X	X		5.51 SU	
11	UP-DUP-3	WT		8/26/21	-				5	X		X							X	X	X	X		-	
12	YGWA-5D	WT		8/26/21	1355				5	X		X							X	X	X	X		7.16 SU	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature] / Arc	8/27/21	1640	[signature]	8/27/21	1640	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chest

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/27/21

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

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 2 Of 2

Section A	Section B	Section C
Required Client Information:	**Required Project Information:**	**Invoice Information:**
Company: Arcadis (GA Power)	Report To: Becky Steever	Attention:
Address: 2839 Paces Ferry Rd	Copy To:	Company Name:
Suite 900, Atlanta, GA 30339		Address:
Email:	Purchase Order #:	Pace Quote:
Phone: Fax:	Project Name: Yates AMA	Pace Project Manager: nicole.d'olac@pacelabs.com,
Requested Due Date:	Project #:	Pace Profile #: 10840

Regulatory Agency

State / Location: GA

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Alkalinity	Residual Chlorine (Y/N)	
13	YGWA-17S	WT		8/27	1045				5	✓		✓							X	X	X	X			Ph: 5.27
14	~~YGWA-18S~~ JS YGWA-18S	WT		8/26	1535				5	✓		✓							X	X	X	X			Ph: 4.40
15	YGWA-18I	WT		8/27	0935				5	✓		✓							X	X	X	X			Ph: 5.40
16	YGWA-20S	WT		8/27	1310				5	✓		✓							X	X	X	X			Ph: 5.37
17	YGWA-21I	WT																	X	X	X	X			
18	YGWC-23S	WT																	X	X	X	X	X		
19	YGWC-24SA	WT																	X	X	X	X			
20	AMA-DUP-1	WT																	X	X	X	X			
21	YGWC-36A	WT																	X	X	X	X	X		
22	YGWC-49	WT																	X	X	X	X			
23	AMA-EB-1			8/26	1600				5										X	X	X	X			
24	AMA-EB-2			8/27	1340				5										X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Arcadis	8/27			8/27/24	1640	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER: DATE Signed: 8/27/24

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

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	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# : 92558254

PM: NMG **Due Date: 09/13/21**
CLIENT: GA-GA Power

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other: ☑ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/2/21 KeW

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: 3.9 **Correction Factor:** Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 4.0

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

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

Page : Of

Section A — Required Client Information:

Company:	Georgia Power
Address:	Atlanta, GA
Email To:	SCS Contacts
Phone:	Fax:
Requested Due Date:	10 Day

Section B — Required Project Information:

Report To:	~~SCS Contacts~~ Becky Steelet
Copy To:	~~Arcadis Contacts~~
Purchase Order #:	
Project Name:	Yates AMA-[redacted]
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency	CCR
State / Location	GA

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: TDS 2450C	Anions Suite 300.0	App III Metals	App. IV Metals (No Ti)	Radium 226/228: 9315/9320	Alkalinity	Cations (Na, K, Mg, Ca)	Residual Chlorine (Y/N)
1	~~UP-EB-1~~ JD	WT	G															x	x	x	x	x			--
2	~~UP-FB-1~~ JS	WT	G															x	x	x	x	x			--
3	~~UP-EB-2~~ JS	WT	G															x	x	x	x	x			--
4	~~UP-FB-2~~ JS	WT	G															x	x	x	x	x			--
5	~~YGWA-4I~~ JS	WT	G															x	x	x	x	x	x		pH:
6	~~YGWA-5I~~ JS	WT	G															x	x	x	x	x			pH:
7	~~UP-DUP-3~~ JS	WT	G		--													x	x	x	x	x			pH:
8	~~YGWA-6D~~ JS	WT	G															x	x	x	x	x	x		pH:
9	~~YGWA-17S~~ JS	WT	G															x	x	x	x	x			pH:
10	~~YGWA-18S~~ JS AMA-DUP-1	WT	G	9/1	←				5	✓		✓						x	x	x	x	x	BS/JS		pH:
11	~~YGWA-16I~~ JS YGWC-245A	WT	G	9/1	1025				5	✓		✓						x	x	x	x	x	BS/JS		pH: 5.22
12	~~YGWA-20S~~ YGWA-21I	WT	G	9/1	1440				5	✓		✓						x	x	x	x	x			pH: 6.65

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl,F, sulfate)	/Arcadis	9/2/21	1530	/Arcadis	9/2/21	1530	
App III Metals: Boron 6020B Ca 6010D		9/2/21	1702	/Pace	9/2/21	1702	
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)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER: [signature] DATE Signed: 9/2/21

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

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: ARCADIS - GA Power **Project:**

WO# : 92559527

92559527

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/3/21 CM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 230 ☑ Wet ☐ Blue ☐ None

Type of Ice:

Cooler Temp: 4.9 **Correction Factor:** Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 5.0

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

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?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	(pH) 9/3/21 DW W			
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ 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:** _____

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Page : 1 Of 1

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	Arcadis (GA Power)	Report To:	Becky Steever	Attention:	
Address:	2839 Paces Ferry Rd	Copy To:		Company Name:	
Suite 900, Atlanta, GA 30339				Address:	
Email		Purchase Order #:		Pace Quote:	
Phone:	Fax:	Project Name:	Yates R6	Pace Project Manager:	nicole.d'olec@pacelabs.com
Requested Due Date:		Project #:		Pace Profile #:	10840

Regulatory Agency: GA

State / Location

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: TDS	Cl, F, SO4	App III/IV Metals	III/IV + Cations	RAD 9315/9320	Alkalinity	Residual Chlorine (Y/N)
1	~~YGWA-39~~	WT																	X	X		X	X	X	
2	YGWA-40	WT		9/3/21	1027														X	X		X	X	X	4.25
3	~~YGWC-38~~	WT																	X	X		X	X	X	
4	~~YGWC-41~~	WT																	X	X		X	X	X	
5	~~AMW-DUP-2~~	WT																	X	X			X		
6	~~YGWC-42~~	WT																	X	X		X	X	X	
7	~~YGWC-43~~	WT																	X	X		X	X	X	
8	~~AP-1-EB-1~~	WT																			X				
9	~~AP-1-FB-1~~	WT																			X				
10	~~YGWA-47~~	WT																			X				
11	~~YGWC-52~~	WT																			X				
12	~~YGWC-44~~	WT																			X				

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)
	[signature] AMS	9/3/21	1730	[signature] / [signature]	9/3/21	1735	4.9	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chost

SIGNATURE of SAMPLER: [signature] DATE Signed: 9/3/21

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	JC2
Date:	9/15/2021
Worklist:	62588
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2237303
MB concentration:	0.384
M/B 2 Sigma CSU:	0.355
MB MDC:	0.721
MB Numerical Performance Indicator:	2.12
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	y
	LCS62588	LCSD62588
Count Date:	9/17/2021	9/17/2021
Spike I.D.:	21-029	21-029
Decay Corrected Spike Concentration (pCi/mL):	38.186	38.186
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.815	0.803
Target Conc. (pCi/L, g, F):	4.687	4.757
Uncertainty (Calculated):	0.230	0.233
Result (pCi/L, g, F):	5.454	4.993
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.212	1.116
Numerical Performance Indicator:	1.22	0.41
Percent Recovery:	116.37%	104.96%
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.:	LCS62588	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD62588	
Sample Result (pCi/L, g, F):	5.454	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.212	
Sample Duplicate Result (pCi/L, g, F):	4.993	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.116	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.549	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	10.31%	
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

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	CLA
Date:	9/13/2021
Worklist:	62589
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2237310
MB concentration:	-0.086
M/B Counting Uncertainty:	0.064
MB MDC:	0.268
MB Numerical Performance Indicator:	-2.64
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS62589	LCSD62589
Count Date:	9/21/2021	9/21/2021
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.034	24.034
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.506	0.510
Target Conc. (pCi/L, g, F):	4.754	4.716
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.107	4.962
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.586	0.566
Numerical Performance Indicator:	1.17	0.85
Percent Recovery:	107.43%	105.21%
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		
Sample I.D.:	LCS62589	92557070001
Duplicate Sample I.D.	LCSD62589	92557070001DUP
Sample Result (pCi/L, g, F):	5.107	0.325
Sample Result Counting Uncertainty (pCi/L, g, F):	0.586	0.189
Sample Duplicate Result (pCi/L, g, F):	4.962	0.574
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.566	0.208
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.349	-1.735
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.08%	55.31%
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 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:

~~***Batch must be re-prepped due to unacceptable precision.~~ N/A

LAM 9/21/21

LAM 9/21/21

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

October 11, 2021

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

RE: Project: YATES AP-2 DG
Pace Project No.: 92557088

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on August 20, 2021. 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
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
Samantha Thomas
Maribel Vital

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: YATES AP-2 DG
Pace Project No.: 92557088

Pace Analytical Services Charlotte
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
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 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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: YATES AP-2 DG
Pace Project No.: 92557088

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92557088001	**AP-2-EB-1**	Water	08/20/21 10:20	08/20/21 17:30
92557088002	**AP-2-FB-1**	Water	08/20/21 15:00	08/20/21 17:30
92557088003	**YGWC-26S**	Water	08/19/21 16:25	08/20/21 17:30
92557088005	**AP-2-EB-2**	Water	08/20/21 12:56	08/20/21 17:30
92557088006	**AP-2-FB-2**	Water	08/19/21 15:50	08/20/21 17:30
92557088007	**YGWC-27S**	Water	08/20/21 13:54	08/20/21 17:30
92557088008	**YGWC-27I**	Water	08/20/21 14:53	08/20/21 17:30
92557088009	**YGWC-28S**	Water	08/20/21 11:24	08/20/21 17:30
92557088010	**YGWC-28I**	Water	08/20/21 12:29	08/20/21 17:30
92557088011	**YGWC-29I**	Water	08/20/21 09:38	08/20/21 17:30
92557088012	**AP-2-DUP-1**	Water	08/20/21 00:00	08/20/21 17:30
92557088004	**YGWC-26I**	Water	08/20/21 10:39	08/20/21 17:30

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES AP-2 DG
Pace Project No.: 92557088

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92557088001	**AP-2-EB-1**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557088002	**AP-2-FB-1**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557088003	**YGWC-26S**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557088005	**AP-2-EB-2**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557088006	**AP-2-FB-2**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557088007	**YGWC-27S**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557088008	**YGWC-27I**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557088009	**YGWC-28S**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557088010	**YGWC-28I**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557088011	**YGWC-29I**	EPA 6010D	KH	1

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES AP-2 DG
Pace Project No.: 92557088

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020B	CW1	12
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557088012	**AP-2-DUP-1**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557088004	**YGWC-26I**	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2540C-2011	ALW	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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: YATES AP-2 DG
Pace Project No.: 92557088

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92557088001	**AP-2-EB-1**					
EPA 6010D	Calcium	1.2	mg/L	1.0	09/01/21 19:34	
EPA 6020B	Boron	0.026J	mg/L	0.040	08/31/21 19:44	
SM 2540C-2011	Total Dissolved Solids	12.0	mg/L	10.0	08/26/21 19:24	
EPA 300.0 Rev 2.1 1993	Chloride	4.3	mg/L	1.0	08/29/21 07:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.094J	mg/L	0.10	08/29/21 07:54	
92557088003	**YGWC-26S**					
	Performed by	CUSTOMER			08/23/21 17:35	
	pH	5.12	Std. Units		08/23/21 17:35	
EPA 6010D	Calcium	11.5	mg/L	1.0	09/01/21 19:44	
EPA 6020B	Barium	0.023	mg/L	0.0050	09/01/21 17:56	
EPA 6020B	Beryllium	0.000082J	mg/L	0.00050	08/31/21 19:56	
EPA 6020B	Boron	0.71	mg/L	0.040	08/31/21 19:56	
EPA 6020B	Chromium	0.0012J	mg/L	0.0050	08/31/21 19:56	
EPA 6020B	Cobalt	0.0017J	mg/L	0.0050	08/31/21 19:56	
SM 2540C-2011	Total Dissolved Solids	176	mg/L	10.0	08/26/21 19:23	
EPA 300.0 Rev 2.1 1993	Chloride	13.5	mg/L	1.0	08/29/21 08:25	
EPA 300.0 Rev 2.1 1993	Sulfate	86.5	mg/L	1.0	08/29/21 08:25	
92557088007	**YGWC-27S**					
	Performed by	CUSTOMER			08/23/21 17:35	
	pH	6.18	Std. Units		08/23/21 17:35	
EPA 6010D	Calcium	29.9	mg/L	1.0	09/01/21 20:03	
EPA 6020B	Barium	0.082	mg/L	0.0050	09/02/21 18:04	
EPA 6020B	Beryllium	0.00011J	mg/L	0.00050	08/31/21 20:19	
EPA 6020B	Boron	1.2	mg/L	0.040	08/31/21 20:19	
EPA 6020B	Chromium	0.0041J	mg/L	0.0050	08/31/21 20:19	
EPA 6020B	Cobalt	0.0027J	mg/L	0.0050	08/31/21 20:19	
EPA 6020B	Lead	0.00096J	mg/L	0.0010	08/31/21 20:19	
EPA 6020B	Lithium	0.0013J	mg/L	0.030	08/31/21 20:19	
SM 2540C-2011	Total Dissolved Solids	169	mg/L	10.0	08/26/21 19:25	
EPA 300.0 Rev 2.1 1993	Chloride	15.2	mg/L	1.0	08/30/21 23:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	08/30/21 23:54	
EPA 300.0 Rev 2.1 1993	Sulfate	18.0	mg/L	1.0	08/30/21 23:54	
92557088008	**YGWC-27I**					
	Performed by	CUSTOMER			08/23/21 17:35	
	pH	6.17	Std. Units		08/23/21 17:35	
EPA 6010D	Calcium	25.7	mg/L	1.0	09/01/21 20:08	
EPA 6020B	Barium	0.083	mg/L	0.0050	08/31/21 20:37	
EPA 6020B	Beryllium	0.000086J	mg/L	0.00050	08/31/21 20:37	
EPA 6020B	Boron	2.5	mg/L	0.040	08/31/21 20:37	
EPA 6020B	Chromium	0.012	mg/L	0.0050	08/31/21 20:37	
EPA 6020B	Cobalt	0.0034J	mg/L	0.0050	08/31/21 20:37	
EPA 6020B	Lithium	0.0066J	mg/L	0.030	08/31/21 20:37	
EPA 6020B	Molybdenum	0.0042J	mg/L	0.010	08/31/21 20:37	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: YATES AP-2 DG
Pace Project No.: 92557088

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92557088008	**YGWC-27I**					
SM 2540C-2011	Total Dissolved Solids	196	mg/L	10.0	08/26/21 19:25	
EPA 300.0 Rev 2.1 1993	Chloride	13.7	mg/L	1.0	08/31/21 00:09	
EPA 300.0 Rev 2.1 1993	Fluoride	0.091J	mg/L	0.10	08/31/21 00:09	
EPA 300.0 Rev 2.1 1993	Sulfate	2.9	mg/L	1.0	08/31/21 00:09	
92557088009	**YGWC-28S**					
	Performed by	CUSTOMER			08/23/21 17:36	
	pH	6.38	Std. Units		08/23/21 17:36	
EPA 6010D	Calcium	27.8	mg/L	1.0	09/01/21 20:22	
EPA 6020B	Barium	0.24	mg/L	0.0050	08/31/21 20:43	
EPA 6020B	Boron	2.5	mg/L	0.040	08/31/21 20:43	
EPA 6020B	Cobalt	0.00097J	mg/L	0.0050	08/31/21 20:43	
SM 2540C-2011	Total Dissolved Solids	192	mg/L	10.0	08/27/21 14:05	
EPA 300.0 Rev 2.1 1993	Chloride	18.1	mg/L	1.0	08/31/21 00:24	
EPA 300.0 Rev 2.1 1993	Fluoride	0.20	mg/L	0.10	08/31/21 00:24	
EPA 300.0 Rev 2.1 1993	Sulfate	5.4	mg/L	1.0	08/31/21 00:24	
92557088010	**YGWC-28I**					
	Performed by	CUSTOMER			08/23/21 17:36	
	pH	6.23	Std. Units		08/23/21 17:36	
EPA 6010D	Calcium	33.1	mg/L	1.0	09/01/21 20:27	
EPA 6020B	Barium	0.079	mg/L	0.0050	08/31/21 20:49	
EPA 6020B	Boron	2.3	mg/L	0.040	08/31/21 20:49	
EPA 6020B	Cadmium	0.00027J	mg/L	0.00050	08/31/21 20:49	
EPA 6020B	Lithium	0.0072J	mg/L	0.030	08/31/21 20:49	
EPA 6020B	Molybdenum	0.0010J	mg/L	0.010	08/31/21 20:49	
SM 2540C-2011	Total Dissolved Solids	194	mg/L	10.0	08/27/21 14:05	
EPA 300.0 Rev 2.1 1993	Chloride	15.2	mg/L	1.0	08/31/21 00:39	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	08/31/21 00:39	
EPA 300.0 Rev 2.1 1993	Sulfate	8.9	mg/L	1.0	08/31/21 00:39	
92557088011	**YGWC-29I**					
	Performed by	CUSTOMER			08/23/21 17:36	
	pH	6.07	Std. Units		08/23/21 17:36	
EPA 6010D	Calcium	10.2	mg/L	1.0	09/01/21 20:31	
EPA 6020B	Barium	0.057	mg/L	0.0050	08/31/21 20:55	
EPA 6020B	Boron	0.66	mg/L	0.040	08/31/21 20:55	
EPA 6020B	Cadmium	0.00027J	mg/L	0.00050	08/31/21 20:55	
EPA 6020B	Lithium	0.0056J	mg/L	0.030	08/31/21 20:55	
SM 2540C-2011	Total Dissolved Solids	110	mg/L	10.0	08/27/21 14:06	
EPA 300.0 Rev 2.1 1993	Chloride	6.8	mg/L	1.0	08/31/21 00:53	
EPA 300.0 Rev 2.1 1993	Fluoride	0.069J	mg/L	0.10	08/31/21 00:53	
EPA 300.0 Rev 2.1 1993	Sulfate	24.7	mg/L	1.0	08/31/21 00:53	
92557088012	**AP-2-DUP-1**					
EPA 6010D	Calcium	33.1	mg/L	1.0	09/01/21 20:41	
EPA 6020B	Barium	0.077	mg/L	0.0050	08/31/21 21:07	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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SUMMARY OF DETECTION

Project: YATES AP-2 DG
Pace Project No.: 92557088

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92557088012	**AP-2-DUP-1**					
EPA 6020B	Boron	2.3	mg/L	0.040	08/31/21 21:07	
EPA 6020B	Cadmium	0.00023J	mg/L	0.00050	08/31/21 21:07	
EPA 6020B	Lithium	0.0073J	mg/L	0.030	08/31/21 21:07	
EPA 6020B	Molybdenum	0.0010J	mg/L	0.010	08/31/21 21:07	
SM 2540C-2011	Total Dissolved Solids	183	mg/L	10.0	08/27/21 14:06	
EPA 300.0 Rev 2.1 1993	Chloride	15.2	mg/L	1.0	08/31/21 01:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.082J	mg/L	0.10	08/31/21 01:38	
EPA 300.0 Rev 2.1 1993	Sulfate	8.9	mg/L	1.0	08/31/21 01:38	
92557088004	**YGWC-26I**					
	Performed by	CUSTOMER			08/23/21 17:35	
	pH	5.78	Std. Units		08/23/21 17:35	
EPA 6010D	Calcium	17.2	mg/L	1.0	09/01/21 19:49	
EPA 6020B	Barium	0.063	mg/L	0.0050	09/01/21 18:02	
EPA 6020B	Boron	0.72	mg/L	0.040	08/31/21 20:02	
EPA 6020B	Lithium	0.0079J	mg/L	0.030	08/31/21 20:02	
EPA 6020B	Selenium	0.0026J	mg/L	0.0050	08/31/21 20:02	
SM 2540C-2011	Total Dissolved Solids	224	mg/L	10.0	08/26/21 19:25	
EPA 300.0 Rev 2.1 1993	Chloride	14.4	mg/L	1.0	08/29/21 08:41	
EPA 300.0 Rev 2.1 1993	Sulfate	84.0	mg/L	1.0	08/29/21 08:41	

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ANALYTICAL RESULTS

Project: YATES AP-2 DG
Pace Project No.: 92557088

Sample: AP-2-EB-1 **Lab ID: 92557088001** Collected: 08/20/21 10:20 Received: 08/20/21 17:30 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	09/01/21 10:30	09/01/21 19:34	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	08/31/21 09:35	08/31/21 19:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:35	08/31/21 19:44	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	08/31/21 09:35	09/01/21 17:44	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/31/21 09:35	08/31/21 19:44	7440-41-7	
Boron	**0.026J**	mg/L	0.040	0.0086	1	08/31/21 09:35	08/31/21 19:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/31/21 09:35	08/31/21 19:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/31/21 09:35	08/31/21 19:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/31/21 09:35	08/31/21 19:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/31/21 09:35	08/31/21 19:44	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/31/21 09:35	08/31/21 19:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/31/21 09:35	09/01/21 17:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/31/21 09:35	08/31/21 19:44	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**12.0**	mg/L	10.0	10.0	1		08/26/21 19:24		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.3**	mg/L	1.0	0.60	1		08/29/21 07:54	16887-00-6	
Fluoride	**0.094J**	mg/L	0.10	0.050	1		08/29/21 07:54	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/29/21 07:54	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: YATES AP-2 DG
Pace Project No.: 92557088

Sample: AP-2-FB-1 **Lab ID: 92557088002** Collected: 08/20/21 15:00 Received: 08/20/21 17:30 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	09/01/21 10:30	09/01/21 19:39	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	08/31/21 09:35	08/31/21 19:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:35	08/31/21 19:50	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	08/31/21 09:35	09/01/21 17:50	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/31/21 09:35	08/31/21 19:50	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/31/21 09:35	08/31/21 19:50	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/31/21 09:35	08/31/21 19:50	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/31/21 09:35	08/31/21 19:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/31/21 09:35	08/31/21 19:50	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/31/21 09:35	08/31/21 19:50	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/31/21 09:35	08/31/21 19:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/31/21 09:35	09/01/21 17:50	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/31/21 09:35	08/31/21 19:50	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		08/26/21 19:24		
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		08/29/21 08:10	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/29/21 08:10	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/29/21 08:10	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AP-2 DG
Pace Project No.: 92557088

Sample: YGWC-26S **Lab ID: 92557088003** Collected: 08/19/21 16:25 Received: 08/20/21 17:30 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		08/23/21 17:35		
pH	**5.12**	Std. Units			1		08/23/21 17:35		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**11.5**	mg/L	1.0	0.12	1	09/01/21 10:30	09/01/21 19:44	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	08/31/21 09:35	08/31/21 19:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:35	08/31/21 19:56	7440-38-2	
Barium	**0.023**	mg/L	0.0050	0.00067	1	08/31/21 09:35	09/01/21 17:56	7440-39-3	
Beryllium	**0.000082J**	mg/L	0.00050	0.000054	1	08/31/21 09:35	08/31/21 19:56	7440-41-7	
Boron	**0.71**	mg/L	0.040	0.0086	1	08/31/21 09:35	08/31/21 19:56	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/31/21 09:35	08/31/21 19:56	7440-43-9	
Chromium	**0.0012J**	mg/L	0.0050	0.0011	1	08/31/21 09:35	08/31/21 19:56	7440-47-3	
Cobalt	**0.0017J**	mg/L	0.0050	0.00039	1	08/31/21 09:35	08/31/21 19:56	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/31/21 09:35	08/31/21 19:56	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/31/21 09:35	08/31/21 19:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/31/21 09:35	09/01/21 17:56	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/31/21 09:35	08/31/21 19:56	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**176**	mg/L	10.0	10.0	1		08/26/21 19:23		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**13.5**	mg/L	1.0	0.60	1		08/29/21 08:25	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/29/21 08:25	16984-48-8	
Sulfate	**86.5**	mg/L	1.0	0.50	1		08/29/21 08:25	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: YATES AP-2 DG
Pace Project No.: 92557088

Sample: AP-2-EB-2 **Lab ID: 92557088005** Collected: 08/20/21 12:56 Received: 08/20/21 17:30 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	09/01/21 10:30	09/01/21 19:53	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	08/31/21 09:35	08/31/21 20:08	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:35	08/31/21 20:08	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	08/31/21 09:35	09/01/21 18:08	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/31/21 09:35	08/31/21 20:08	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/31/21 09:35	08/31/21 20:08	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/31/21 09:35	08/31/21 20:08	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/31/21 09:35	08/31/21 20:08	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/31/21 09:35	08/31/21 20:08	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/31/21 09:35	08/31/21 20:08	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/31/21 09:35	08/31/21 20:08	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/31/21 09:35	09/01/21 18:08	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/31/21 09:35	08/31/21 20:08	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		08/26/21 19:25		
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		08/29/21 09:27	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/29/21 09:27	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/29/21 09:27	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AP-2 DG
Pace Project No.: 92557088

Sample: AP-2-FB-2 **Lab ID: 92557088006** Collected: 08/19/21 15:50 Received: 08/20/21 17:30 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	09/01/21 10:30	09/01/21 19:58	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	08/31/21 09:35	08/31/21 20:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:35	08/31/21 20:14	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	08/31/21 09:35	09/02/21 17:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/31/21 09:35	08/31/21 20:14	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/31/21 09:35	08/31/21 20:14	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/31/21 09:35	08/31/21 20:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/31/21 09:35	08/31/21 20:14	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/31/21 09:35	08/31/21 20:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/31/21 09:35	08/31/21 20:14	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/31/21 09:35	08/31/21 20:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/31/21 09:35	09/02/21 17:58	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/31/21 09:35	08/31/21 20:14	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		08/26/21 19:23		
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		08/29/21 09:42	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/29/21 09:42	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/29/21 09:42	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AP-2 DG
Pace Project No.: 92557088

Sample: YGWC-27S **Lab ID: 92557088007** Collected: 08/20/21 13:54 Received: 08/20/21 17:30 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		08/23/21 17:35		
pH	**6.18**	Std. Units			1		08/23/21 17:35		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**29.9**	mg/L	1.0	0.12	1	09/01/21 10:30	09/01/21 20:03	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	08/31/21 09:35	08/31/21 20:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:35	08/31/21 20:19	7440-38-2	
Barium	**0.082**	mg/L	0.0050	0.00067	1	08/31/21 09:35	09/02/21 18:04	7440-39-3	
Beryllium	**0.00011J**	mg/L	0.00050	0.000054	1	08/31/21 09:35	08/31/21 20:19	7440-41-7	
Boron	**1.2**	mg/L	0.040	0.0086	1	08/31/21 09:35	08/31/21 20:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/31/21 09:35	08/31/21 20:19	7440-43-9	
Chromium	**0.0041J**	mg/L	0.0050	0.0011	1	08/31/21 09:35	08/31/21 20:19	7440-47-3	
Cobalt	**0.0027J**	mg/L	0.0050	0.00039	1	08/31/21 09:35	08/31/21 20:19	7440-48-4	
Lead	**0.00096J**	mg/L	0.0010	0.00089	1	08/31/21 09:35	08/31/21 20:19	7439-92-1	
Lithium	**0.0013J**	mg/L	0.030	0.00073	1	08/31/21 09:35	08/31/21 20:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/31/21 09:35	09/02/21 18:04	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/31/21 09:35	08/31/21 20:19	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**169**	mg/L	10.0	10.0	1		08/26/21 19:25		
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		08/30/21 23:54	16887-00-6	
Fluoride	**0.11**	mg/L	0.10	0.050	1		08/30/21 23:54	16984-48-8	
Sulfate	**18.0**	mg/L	1.0	0.50	1		08/30/21 23:54	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AP-2 DG
Pace Project No.: 92557088

Sample: YGWC-27I **Lab ID: 92557088008** Collected: 08/20/21 14:53 Received: 08/20/21 17:30 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		08/23/21 17:35		
pH	**6.17**	Std. Units			1		08/23/21 17:35		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**25.7**	mg/L	1.0	0.12	1	09/01/21 10:30	09/01/21 20:08	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	08/31/21 09:35	08/31/21 20:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:35	08/31/21 20:37	7440-38-2	
Barium	**0.083**	mg/L	0.0050	0.00067	1	08/31/21 09:35	08/31/21 20:37	7440-39-3	
Beryllium	**0.000086J**	mg/L	0.00050	0.000054	1	08/31/21 09:35	08/31/21 20:37	7440-41-7	
Boron	**2.5**	mg/L	0.040	0.0086	1	08/31/21 09:35	08/31/21 20:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/31/21 09:35	08/31/21 20:37	7440-43-9	
Chromium	**0.012**	mg/L	0.0050	0.0011	1	08/31/21 09:35	08/31/21 20:37	7440-47-3	
Cobalt	**0.0034J**	mg/L	0.0050	0.00039	1	08/31/21 09:35	08/31/21 20:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/31/21 09:35	08/31/21 20:37	7439-92-1	
Lithium	**0.0066J**	mg/L	0.030	0.00073	1	08/31/21 09:35	08/31/21 20:37	7439-93-2	
Molybdenum	**0.0042J**	mg/L	0.010	0.00074	1	08/31/21 09:35	08/31/21 20:37	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/31/21 09:35	08/31/21 20:37	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**196**	mg/L	10.0	10.0	1		08/26/21 19:25		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**13.7**	mg/L	1.0	0.60	1		08/31/21 00:09	16887-00-6	
Fluoride	**0.091J**	mg/L	0.10	0.050	1		08/31/21 00:09	16984-48-8	
Sulfate	**2.9**	mg/L	1.0	0.50	1		08/31/21 00:09	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: YATES AP-2 DG
Pace Project No.: 92557088

Sample: YGWC-28S **Lab ID: 92557088009** Collected: 08/20/21 11:24 Received: 08/20/21 17:30 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		08/23/21 17:36		
pH	**6.38**	Std. Units			1		08/23/21 17:36		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**27.8**	mg/L	1.0	0.12	1	09/01/21 10:30	09/01/21 20:22	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	08/31/21 09:35	08/31/21 20:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:35	08/31/21 20:43	7440-38-2	
Barium	**0.24**	mg/L	0.0050	0.00067	1	08/31/21 09:35	08/31/21 20:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/31/21 09:35	08/31/21 20:43	7440-41-7	
Boron	**2.5**	mg/L	0.040	0.0086	1	08/31/21 09:35	08/31/21 20:43	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/31/21 09:35	08/31/21 20:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/31/21 09:35	08/31/21 20:43	7440-47-3	
Cobalt	**0.00097J**	mg/L	0.0050	0.00039	1	08/31/21 09:35	08/31/21 20:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/31/21 09:35	08/31/21 20:43	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/31/21 09:35	08/31/21 20:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/31/21 09:35	08/31/21 20:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/31/21 09:35	08/31/21 20:43	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**192**	mg/L	10.0	10.0	1		08/27/21 14:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**18.1**	mg/L	1.0	0.60	1		08/31/21 00:24	16887-00-6	
Fluoride	**0.20**	mg/L	0.10	0.050	1		08/31/21 00:24	16984-48-8	
Sulfate	**5.4**	mg/L	1.0	0.50	1		08/31/21 00:24	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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110 Technology Parkway
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ANALYTICAL RESULTS

Project: YATES AP-2 DG
Pace Project No.: 92557088

Sample: YGWC-28I **Lab ID: 92557088010** Collected: 08/20/21 12:29 Received: 08/20/21 17:30 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		08/23/21 17:36		
pH	**6.23**	Std. Units			1		08/23/21 17:36		
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	09/01/21 10:30	09/01/21 20:27	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	08/31/21 09:35	08/31/21 20:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:35	08/31/21 20:49	7440-38-2	
Barium	**0.079**	mg/L	0.0050	0.00067	1	08/31/21 09:35	08/31/21 20:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/31/21 09:35	08/31/21 20:49	7440-41-7	
Boron	**2.3**	mg/L	0.040	0.0086	1	08/31/21 09:35	08/31/21 20:49	7440-42-8	
Cadmium	**0.00027J**	mg/L	0.00050	0.00011	1	08/31/21 09:35	08/31/21 20:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/31/21 09:35	08/31/21 20:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/31/21 09:35	08/31/21 20:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/31/21 09:35	08/31/21 20:49	7439-92-1	
Lithium	**0.0072J**	mg/L	0.030	0.00073	1	08/31/21 09:35	08/31/21 20:49	7439-93-2	
Molybdenum	**0.0010J**	mg/L	0.010	0.00074	1	08/31/21 09:35	08/31/21 20:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/31/21 09:35	08/31/21 20:49	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**194**	mg/L	10.0	10.0	1		08/27/21 14:05		
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		08/31/21 00:39	16887-00-6	
Fluoride	**0.11**	mg/L	0.10	0.050	1		08/31/21 00:39	16984-48-8	
Sulfate	**8.9**	mg/L	1.0	0.50	1		08/31/21 00:39	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AP-2 DG
Pace Project No.: 92557088

Sample: YGWC-29I **Lab ID: 92557088011** Collected: 08/20/21 09:38 Received: 08/20/21 17:30 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		08/23/21 17:36		
pH	**6.07**	Std. Units			1		08/23/21 17:36		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**10.2**	mg/L	1.0	0.12	1	09/01/21 10:30	09/01/21 20:31	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	08/31/21 09:35	08/31/21 20:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:35	08/31/21 20:55	7440-38-2	
Barium	**0.057**	mg/L	0.0050	0.00067	1	08/31/21 09:35	08/31/21 20:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/31/21 09:35	08/31/21 20:55	7440-41-7	
Boron	**0.66**	mg/L	0.040	0.0086	1	08/31/21 09:35	08/31/21 20:55	7440-42-8	
Cadmium	**0.00027J**	mg/L	0.00050	0.00011	1	08/31/21 09:35	08/31/21 20:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/31/21 09:35	08/31/21 20:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/31/21 09:35	08/31/21 20:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/31/21 09:35	08/31/21 20:55	7439-92-1	
Lithium	**0.0056J**	mg/L	0.030	0.00073	1	08/31/21 09:35	08/31/21 20:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/31/21 09:35	08/31/21 20:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/31/21 09:35	08/31/21 20:55	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**110**	mg/L	10.0	10.0	1		08/27/21 14:06		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.8**	mg/L	1.0	0.60	1		08/31/21 00:53	16887-00-6	
Fluoride	**0.069J**	mg/L	0.10	0.050	1		08/31/21 00:53	16984-48-8	
Sulfate	**24.7**	mg/L	1.0	0.50	1		08/31/21 00:53	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AP-2 DG
Pace Project No.: 92557088

Sample: AP-2-DUP-1 **Lab ID: 92557088012** Collected: 08/20/21 00:00 Received: 08/20/21 17:30 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	**33.1**	mg/L	1.0	0.12	1	09/01/21 10:30	09/01/21 20:41	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	08/31/21 09:35	08/31/21 21:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:35	08/31/21 21:07	7440-38-2	
Barium	**0.077**	mg/L	0.0050	0.00067	1	08/31/21 09:35	08/31/21 21:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/31/21 09:35	08/31/21 21:07	7440-41-7	
Boron	**2.3**	mg/L	0.040	0.0086	1	08/31/21 09:35	08/31/21 21:07	7440-42-8	
Cadmium	**0.00023J**	mg/L	0.00050	0.00011	1	08/31/21 09:35	08/31/21 21:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/31/21 09:35	08/31/21 21:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/31/21 09:35	08/31/21 21:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/31/21 09:35	08/31/21 21:07	7439-92-1	
Lithium	**0.0073J**	mg/L	0.030	0.00073	1	08/31/21 09:35	08/31/21 21:07	7439-93-2	
Molybdenum	**0.0010J**	mg/L	0.010	0.00074	1	08/31/21 09:35	08/31/21 21:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/31/21 09:35	08/31/21 21:07	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**183**	mg/L	10.0	10.0	1		08/27/21 14:06		
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		08/31/21 01:38	16887-00-6	
Fluoride	**0.082J**	mg/L	0.10	0.050	1		08/31/21 01:38	16984-48-8	
Sulfate	**8.9**	mg/L	1.0	0.50	1		08/31/21 01:38	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES AP-2 DG
Pace Project No.: 92557088

Sample: YGWC-26I **Lab ID: 92557088004** Collected: 08/20/21 10:39 Received: 08/20/21 17:30 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		08/23/21 17:35		
pH	**5.78**	Std. Units			1		08/23/21 17:35		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**17.2**	mg/L	1.0	0.12	1	09/01/21 10:30	09/01/21 19:49	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	08/31/21 09:35	08/31/21 20:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:35	08/31/21 20:02	7440-38-2	
Barium	**0.063**	mg/L	0.0050	0.00067	1	08/31/21 09:35	09/01/21 18:02	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/31/21 09:35	08/31/21 20:02	7440-41-7	
Boron	**0.72**	mg/L	0.040	0.0086	1	08/31/21 09:35	08/31/21 20:02	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/31/21 09:35	08/31/21 20:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/31/21 09:35	08/31/21 20:02	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/31/21 09:35	08/31/21 20:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/31/21 09:35	08/31/21 20:02	7439-92-1	
Lithium	**0.0079J**	mg/L	0.030	0.00073	1	08/31/21 09:35	08/31/21 20:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/31/21 09:35	09/01/21 18:02	7439-98-7	
Selenium	**0.0026J**	mg/L	0.0050	0.0014	1	08/31/21 09:35	08/31/21 20:02	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**224**	mg/L	10.0	10.0	1		08/26/21 19:25		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**14.4**	mg/L	1.0	0.60	1		08/29/21 08:41	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/29/21 08:41	16984-48-8	
Sulfate	**84.0**	mg/L	1.0	0.50	1		08/29/21 08:41	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES AP-2 DG
Pace Project No.: 92557088

QC Batch: 644092
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92557088001, 92557088002, 92557088003, 92557088004, 92557088005, 92557088006, 92557088007, 92557088008, 92557088009, 92557088010, 92557088011, 92557088012

METHOD BLANK: 3379392 Matrix: Water
Associated Lab Samples: 92557088001, 92557088002, 92557088003, 92557088004, 92557088005, 92557088006, 92557088007, 92557088008, 92557088009, 92557088010, 92557088011, 92557088012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/01/21 18:03	

LABORATORY CONTROL SAMPLE: 3379393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3379394 3379395

Parameter	Units	92555948017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	51.2	1	1	50.7	53.3	-50	211	75-125	5	20	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES AP-2 DG
Pace Project No.: 92557088

QC Batch: 644093
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92557088001, 92557088002, 92557088003, 92557088004, 92557088005, 92557088006, 92557088007, 92557088008, 92557088009, 92557088010, 92557088011, 92557088012

METHOD BLANK: 3379396 Matrix: Water
Associated Lab Samples: 92557088001, 92557088002, 92557088003, 92557088004, 92557088005, 92557088006, 92557088007, 92557088008, 92557088009, 92557088010, 92557088011, 92557088012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	08/31/21 18:14	
Arsenic	mg/L	ND	0.0050	0.0011	08/31/21 18:14	
Barium	mg/L	ND	0.0050	0.00067	09/01/21 15:42	
Beryllium	mg/L	ND	0.00050	0.000054	08/31/21 18:14	
Boron	mg/L	ND	0.040	0.0086	08/31/21 18:14	
Cadmium	mg/L	ND	0.00050	0.00011	08/31/21 18:14	
Chromium	mg/L	ND	0.0050	0.0011	08/31/21 18:14	
Cobalt	mg/L	ND	0.0050	0.00039	08/31/21 18:14	
Lead	mg/L	ND	0.0010	0.00089	08/31/21 18:14	
Lithium	mg/L	ND	0.030	0.00073	08/31/21 18:14	
Molybdenum	mg/L	ND	0.010	0.00074	09/01/21 15:42	
Selenium	mg/L	ND	0.0050	0.0014	08/31/21 18:14	

LABORATORY CONTROL SAMPLE: 3379397

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	102	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.10	100	80-120	
Boron	mg/L	1	1.1	105	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	105	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3379398 3379399

Parameter	Units	92555948018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.10	105	102	75-125	3	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Barium	mg/L	0.094	0.1	0.1	0.23	0.23	133	132	75-125	0	20	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES AP-2 DG
Pace Project No.: 92557088

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3379398 3379399

Parameter	Units	92555948018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	1	20	
Boron	mg/L	2.6	1	1	3.9	3.7	128	114	75-125	4	20	M1
Cadmium	mg/L	ND	0.1	0.1	0.10	0.098	102	98	75-125	3	20	
Chromium	mg/L	ND	0.1	0.1	0.11	0.11	108	106	75-125	2	20	
Cobalt	mg/L	0.0020J	0.1	0.1	0.11	0.10	104	102	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.097	0.098	97	98	75-125	1	20	
Lithium	mg/L	0.0012J	0.1	0.1	0.11	0.11	105	105	75-125	0	20	
Molybdenum	mg/L	0.0032J	0.1	0.1	0.11	0.11	106	106	75-125	0	20	
Selenium	mg/L	0.0052	0.1	0.1	0.11	0.11	105	106	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES AP-2 DG
Pace Project No.: 92557088

QC Batch: 643142
QC Batch Method: SM 2540C-2011
Analysis Method: SM 2540C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92557088001, 92557088002, 92557088003, 92557088004, 92557088005, 92557088006, 92557088007, 92557088008

METHOD BLANK: 3374773 Matrix: Water
Associated Lab Samples: 92557088001, 92557088002, 92557088003, 92557088004, 92557088005, 92557088006, 92557088007, 92557088008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	08/26/21 19:22	

LABORATORY CONTROL SAMPLE: 3374774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	396	99	90-111	

SAMPLE DUPLICATE: 3374775

Parameter	Units	92557073003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	391	407	4	10	

SAMPLE DUPLICATE: 3374776

Parameter	Units	92557089008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	134	144	7	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES AP-2 DG
Pace Project No.: 92557088

QC Batch: 643454 Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92557088009, 92557088010, 92557088011, 92557088012

METHOD BLANK: 3376456 Matrix: Water
Associated Lab Samples: 92557088009, 92557088010, 92557088011, 92557088012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	08/27/21 14:05	

LABORATORY CONTROL SAMPLE: 3376457

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	394	98	90-111	

SAMPLE DUPLICATE: 3376458

Parameter	Units	92557088009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	192	203	6	10	

SAMPLE DUPLICATE: 3376459

Parameter	Units	92555948030 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2040	2150	5	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES AP-2 DG
Pace Project No.: 92557088

QC Batch: 643665
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92557088001, 92557088002, 92557088003, 92557088004, 92557088005, 92557088006

METHOD BLANK: 3377162 Matrix: Water
Associated Lab Samples: 92557088001, 92557088002, 92557088003, 92557088004, 92557088005, 92557088006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/29/21 01:44	
Fluoride	mg/L	ND	0.10	0.050	08/29/21 01:44	
Sulfate	mg/L	ND	1.0	0.50	08/29/21 01:44	

LABORATORY CONTROL SAMPLE: 3377163

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	46.1	92	90-110	
Fluoride	mg/L	2.5	2.3	93	90-110	
Sulfate	mg/L	50	46.6	93	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3377164 3377165

Parameter	Units	92555948025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	61.0	59.7	122	119	90-110	2	10	M1
Fluoride	mg/L	ND	2.5	2.5	3.1	3.1	126	123	90-110	2	10	M1
Sulfate	mg/L	ND	50	50	62.7	61.8	125	124	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3377166 3377167

Parameter	Units	92557081005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.4	50	50	54.0	53.8	97	97	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	95	95	90-110	0	10	
Sulfate	mg/L	345	50	50	385	382	80	73	90-110	1	10	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES AP-2 DG
Pace Project No.: 92557088

QC Batch: 644028
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92557088007, 92557088008, 92557088009, 92557088010, 92557088011, 92557088012

METHOD BLANK: 3379266 Matrix: Water
Associated Lab Samples: 92557088007, 92557088008, 92557088009, 92557088010, 92557088011, 92557088012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/30/21 22:40	
Fluoride	mg/L	ND	0.10	0.050	08/30/21 22:40	
Sulfate	mg/L	ND	1.0	0.50	08/30/21 22:40	

LABORATORY CONTROL SAMPLE: 3379267

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.5	99	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	50.3	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3379268 3379269

Parameter	Units	92558089003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	19300	50	50	4810	17900	-29000	-2800	90-110	115	10	M1,R1
Fluoride	mg/L	6.5J	2.5	2.5	8.5J	8.6J	80	84	90-110		10	M1
Sulfate	mg/L	1340	50	50	1480	1380	263	71	90-110	7	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3379270 3379271

Parameter	Units	92557089004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.0	50	50	56.3	58.9	103	108	90-110	5	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	102	107	90-110	4	10	
Sulfate	mg/L	6.7	50	50	58.8	61.3	104	109	90-110	4	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: YATES AP-2 DG
Pace Project No.: 92557088

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AP-2 DG
Pace Project No.: 92557088

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92557088003	YGWC-26S				
92557088004	YGWC-26I				
92557088007	YGWC-27S				
92557088008	YGWC-27I				
92557088009	YGWC-28S				
92557088010	YGWC-28I				
92557088011	YGWC-29I				
92557088001	AP-2-EB-1	EPA 3010A	644092	EPA 6010D	644528
92557088002	AP-2-FB-1	EPA 3010A	644092	EPA 6010D	644528
92557088003	YGWC-26S	EPA 3010A	644092	EPA 6010D	644528
92557088004	YGWC-26I	EPA 3010A	644092	EPA 6010D	644528
92557088005	AP-2-EB-2	EPA 3010A	644092	EPA 6010D	644528
92557088006	AP-2-FB-2	EPA 3010A	644092	EPA 6010D	644528
92557088007	YGWC-27S	EPA 3010A	644092	EPA 6010D	644528
92557088008	YGWC-27I	EPA 3010A	644092	EPA 6010D	644528
92557088009	YGWC-28S	EPA 3010A	644092	EPA 6010D	644528
92557088010	YGWC-28I	EPA 3010A	644092	EPA 6010D	644528
92557088011	YGWC-29I	EPA 3010A	644092	EPA 6010D	644528
92557088012	AP-2-DUP-1	EPA 3010A	644092	EPA 6010D	644528
92557088001	AP-2-EB-1	EPA 3005A	644093	EPA 6020B	644221
92557088002	AP-2-FB-1	EPA 3005A	644093	EPA 6020B	644221
92557088003	YGWC-26S	EPA 3005A	644093	EPA 6020B	644221
92557088004	YGWC-26I	EPA 3005A	644093	EPA 6020B	644221
92557088005	AP-2-EB-2	EPA 3005A	644093	EPA 6020B	644221
92557088006	AP-2-FB-2	EPA 3005A	644093	EPA 6020B	644221
92557088007	YGWC-27S	EPA 3005A	644093	EPA 6020B	644221
92557088008	YGWC-27I	EPA 3005A	644093	EPA 6020B	644221
92557088009	YGWC-28S	EPA 3005A	644093	EPA 6020B	644221
92557088010	YGWC-28I	EPA 3005A	644093	EPA 6020B	644221
92557088011	YGWC-29I	EPA 3005A	644093	EPA 6020B	644221
92557088012	AP-2-DUP-1	EPA 3005A	644093	EPA 6020B	644221
92557088001	AP-2-EB-1	SM 2540C-2011	643142		
92557088002	AP-2-FB-1	SM 2540C-2011	643142		
92557088003	YGWC-26S	SM 2540C-2011	643142		
92557088004	YGWC-26I	SM 2540C-2011	643142		
92557088005	AP-2-EB-2	SM 2540C-2011	643142		
92557088006	AP-2-FB-2	SM 2540C-2011	643142		
92557088007	YGWC-27S	SM 2540C-2011	643142		
92557088008	YGWC-27I	SM 2540C-2011	643142		
92557088009	YGWC-28S	SM 2540C-2011	643454		
92557088010	YGWC-28I	SM 2540C-2011	643454		
92557088011	YGWC-29I	SM 2540C-2011	643454		
92557088012	AP-2-DUP-1	SM 2540C-2011	643454		
92557088001	AP-2-EB-1	EPA 300.0 Rev 2.1 1993	643665		
92557088002	AP-2-FB-1	EPA 300.0 Rev 2.1 1993	643665		
92557088003	YGWC-26S	EPA 300.0 Rev 2.1 1993	643665		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AP-2 DG
Pace Project No.: 92557088

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92557088004	**YGWC-26I**	EPA 300.0 Rev 2.1 1993	643665		
92557088005	**AP-2-EB-2**	EPA 300.0 Rev 2.1 1993	643665		
92557088006	**AP-2-FB-2**	EPA 300.0 Rev 2.1 1993	643665		
92557088007	**YGWC-27S**	EPA 300.0 Rev 2.1 1993	644028		
92557088008	**YGWC-27I**	EPA 300.0 Rev 2.1 1993	644028		
92557088009	**YGWC-28S**	EPA 300.0 Rev 2.1 1993	644028		
92557088010	**YGWC-28I**	EPA 300.0 Rev 2.1 1993	644028		
92557088011	**YGWC-29I**	EPA 300.0 Rev 2.1 1993	644028		
92557088012	**AP-2-DUP-1**	EPA 300.0 Rev 2.1 1993	644028		

PaceAnalytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ft Power

Project #: **WO# : 92557088**

92557088

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other ____

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 8/25/21 RM

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 C Correction Factor: Add/Subtract (°C) 0 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): 2 C

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?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☐ Yes	☑ No	☐ N/A	9. YGWC 26I collection time 1453
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ 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.

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

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

Project #

WO# : 92557088

PM: NMG **Due Date: 09/03/21**

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)	BP4C-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 NaPS2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 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 (NH4)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		1	1			1																		2				
2		1	1			1																		2				
3		1	1			1																		2				
4		1	1			1																		2				
5		1	1			1																		2				
6		1	1			1																		2				
7		1	1			1																		2				
8		1	1			1																		2				
9		1	1			1																		2				
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 container).

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Georgia Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	SCS and Arcadis Contacts	Purchase Order #		Pace Quote:	
Phone:	Fax:	Project Name:	Yates AP-2 Dewa to-	Pace Project Manager:	Kevin Herring/Nicole D'oleo
Requested Due Date:	10 Day	Project Number:		Pace Profile #:	10840

Regulatory Agency
CCR
State / Location
GA

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS 2540C	Anions Suite 300.0	App III Metals	App IV Metals (No Th)	Radium 226/228 9315/9320	Residual Chlorine (Y/N)	
1	~~AP-2EB-1~~ JD AP-2-EB-1	WT	G	8/20	1020														x	x	x	x	x		001
2	~~AP-2 EB-2~~	WT	G																x	x	x	x	x		
3	~~AP-2 FB-1~~ JD AP-2-FB-1	WT	G	8/19	1520														x	x	x	x	x		002
4	~~AP-2 FB-2~~	WT	G																x	x	x	x	x		
5	YGWC-26S	WT	G	8/19	1625				5	✓		✓							x	x	x	x	x		003
6	YGWC-26I	WT	G	~~8/19~~ 8/7	~~1625~~ 1025	~~8/20~~	~~1020~~		5	✓		✓							x	x	x	x	x		~~5.12~~ to 5.7 004
7	~~AP-2DUP-1~~	WT	G																x	x	x	x	x		
8	~~YGWC-27S~~	WT	G																x	x	x	x	x		
9	~~YGWC-27I~~	WT	G																x	x	x	x	x		
10	~~YGWC-28S~~	WT	G																x	x	x	x	x		
11	~~YGWC-28I~~	WT	G																x	x	x	x	x		
12	~~YGWC-29I~~	WT	G																x	x	x	x	x		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	JS	8/20	1730	[illegible]	8/20/21	1730

SAMPLE CONDITIONS			
5.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER: [signature]

DATE Signed: 8/20/2021

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 : 2 Of 2

Section A Required Client Information		Section B Required Project Information:		Section C Invoice Information:		Regulatory Agency
Company:	Georgia Power	Report To:	SCS Contacts	Attention:	Southern Co	CCR
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:		State / Location
				Address:		GA
Email To:	SCS and Arcadis Contacts	Purchase Order #		Pace Quote:		
Phone:	Fax:	Project Name:	Yates AP-2 DG	Pace Project Manager:	Kevin Herring/Nicole D'oleo	
Requested Due Date:	10 Day	Project Number:		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 (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: TDS 2450C	Arsenic Suite 3030	App III Metals	App IV Metals (No Ti)	Radium 226/228 (9315/9320)	Residual Chlorine (Y/N)	
1	~~AP-2 FB-1~~	WT	G																x	x	x	x	x		pH
2	AP-2 EB-2	WT	G																x	x	x	x	x		pH 005
3	~~AP-2 FB-1~~	WT	G																x	x	x	x	x		pH
4	AP-2 FB-2	WT	G																x	x	x	x	x		pH 006
5	~~YGWC-28S~~	WT	G																x	x	x	x	x		pH
6	~~YGWC-28I~~	WT	G																x	x	x	x	x		pH
7	AP-2-DUP-1	WT	G		—														x	x	x	x	x		pH 012
8	YGWC-27S	WT	G	8/20	1354														x	x	x	x	x		pH 6.18 007
9	YGWC-27I	WT	G	8/20	1453														x	x	x	x	x		pH 6.17 008
10	YGWC-28S	WT	G	8/20	1124														x	x	x	x	x		pH 6.38 009
11	YGWC-28I	WT	G	8/20	1229														x	x	x	x	x		pH 6.23 010
12	YGWC-29I	WT	G	8/20	938														x	x	x	x	x		pH 6.07 011

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)
		8/20	1730		8/20/24	1730	5.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Christ

SIGNATURE of SAMPLER: Mark Christ DATE Signed: 8/20/24

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

October 12, 2021

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

RE: Project: YATES UPGRADIENT
Pace Project No.: 92557089

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between August 20, 2021 and September 03, 2021. 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,

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
Samantha Thomas
Maribel Vital

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Pace Analytical Services Charlotte
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
Louisiana/NELAP Certification # LA170028
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
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 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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92557089001	**UP-DUP-1**	Water	08/20/21 00:00	08/20/21 17:30
92557089002	**GWA-2**	Water	08/20/21 12:00	08/20/21 17:30
92557089003	**YGWA-14S**	Water	08/19/21 11:00	08/20/21 17:30
92557089004	**UP-DUP-2**	Water	08/19/21 00:00	08/20/21 17:30
92557089005	**YGWA-1D**	Water	08/19/21 11:10	08/20/21 17:30
92557089006	**YGWA-1I**	Water	08/19/21 12:49	08/20/21 17:30
92557089007	**YGWA-3D**	Water	08/19/21 14:45	08/20/21 17:30
92557089008	**YGWA-47**	Water	08/19/21 10:26	08/20/21 17:30
92557089009	**YGWA-30I**	Water	08/19/21 12:20	08/20/21 17:30
92557720005	**YGWA-39**	Water	08/26/21 12:30	08/27/21 16:40
92558251001	**YGWA-2I**	Water	08/27/21 11:33	08/27/21 16:40
92558251002	**YGWA-3I**	Water	08/27/21 09:55	08/27/21 16:40
92558254001	**UP-FB-2**	Water	08/26/21 17:10	08/27/21 16:40
92558254002	**YGWA-4I**	Water	08/26/21 11:29	08/27/21 16:40
92558254003	**YGWA-5I**	Water	08/26/21 16:28	08/27/21 16:40
92558254004	**UP-DUP-3**	Water	08/26/21 00:00	08/27/21 16:40
92558254005	**YGWA-5D**	Water	08/26/21 13:35	08/27/21 16:40
92558254006	**YGWA-17S**	Water	08/27/21 10:45	08/27/21 16:40
92558254007	**YGWA-18S**	Water	08/26/21 15:35	08/27/21 16:40
92558254008	**YGWA-18I**	Water	08/27/21 09:35	08/27/21 16:40
92558254009	**YGWA-20S**	Water	08/27/21 13:10	08/27/21 16:40
92558254014	**YGWA-21I**	Water	09/01/21 14:40	09/02/21 17:02
92559527001	**YGWA-40**	Water	09/03/21 10:20	09/03/21 17:30

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92557089001	UP-DUP-1	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557089002	GWA-2	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557089003	YGWA-14S	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557089004	UP-DUP-2	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557089005	YGWA-1D	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557089006	YGWA-1I	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557089007	YGWA-3D	EPA 6010D	KH	1
		EPA 6020B	CW1	12
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557089008	YGWA-47	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557089009	YGWA-30I	EPA 6010D	KH	1
		EPA 6020B	CW1	12

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557720005	**YGWA-39**	EPA 6010D	DRB	4
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92558251001	**YGWA-2I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92558251002	**YGWA-3I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92558254001	**UP-FB-2**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92558254002	**YGWA-4I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92558254003	**YGWA-5I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92558254004	**UP-DUP-3**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92558254005	**YGWA-5D**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92558254006	**YGWA-17S**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92558254007	**YGWA-18S**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92558254008	**YGWA-18I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92558254009	**YGWA-20S**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92558254014	**YGWA-21I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92559527001	**YGWA-40**	EPA 6010D	KH	1
		EPA 6020B	CW1	15
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		SM 2320B-2011	ECH	3
		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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92557089001	**UP-DUP-1**					
EPA 6010D	Calcium	26.0	mg/L	1.0	08/31/21 16:52	
EPA 6020B	Barium	0.033	mg/L	0.0050	08/31/21 16:38	
EPA 6020B	Cobalt	0.065	mg/L	0.0050	08/31/21 16:38	
EPA 6020B	Copper	0.00087J	mg/L	0.0050	08/31/21 16:38	
EPA 6020B	Lithium	0.0027J	mg/L	0.030	08/31/21 16:38	
EPA 6020B	Nickel	0.013	mg/L	0.0050	08/31/21 16:38	
EPA 6020B	Zinc	0.012	mg/L	0.010	08/31/21 16:38	
SM 2540C-2011	Total Dissolved Solids	245	mg/L	10.0	08/27/21 14:06	
EPA 300.0 Rev 2.1 1993	Chloride	5.2	mg/L	1.0	08/31/21 01:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.079J	mg/L	0.10	08/31/21 01:54	
EPA 300.0 Rev 2.1 1993	Sulfate	120	mg/L	3.0	08/31/21 15:04	
92557089002	**GWA-2**					
	Performed by	CUSTOMER			08/23/21 17:45	
	pH	5.86	Std. Units		08/23/21 17:45	
EPA 6010D	Calcium	26.5	mg/L	1.0	08/31/21 16:56	
EPA 6020B	Barium	0.036	mg/L	0.0050	08/31/21 16:44	
EPA 6020B	Cobalt	0.074	mg/L	0.0050	08/31/21 16:44	
EPA 6020B	Copper	0.0012J	mg/L	0.0050	08/31/21 16:44	
EPA 6020B	Lithium	0.0028J	mg/L	0.030	08/31/21 16:44	
EPA 6020B	Nickel	0.014	mg/L	0.0050	08/31/21 16:44	
EPA 6020B	Zinc	0.014	mg/L	0.010	08/31/21 16:44	
SM 2540C-2011	Total Dissolved Solids	254	mg/L	10.0	08/27/21 14:06	
EPA 300.0 Rev 2.1 1993	Chloride	5.2	mg/L	1.0	08/31/21 02:08	
EPA 300.0 Rev 2.1 1993	Fluoride	0.060J	mg/L	0.10	08/31/21 02:08	
EPA 300.0 Rev 2.1 1993	Sulfate	121	mg/L	3.0	08/31/21 15:19	
92557089003	**YGWA-14S**					
	Performed by	CUSTOMER			08/23/21 17:45	
	pH	7.32	Std. Units		08/23/21 17:45	
EPA 6010D	Calcium	1.2	mg/L	1.0	08/31/21 17:01	
EPA 6020B	Barium	0.0077	mg/L	0.0050	08/31/21 16:49	
EPA 6020B	Beryllium	0.00022J	mg/L	0.00050	08/31/21 16:49	
EPA 6020B	Boron	0.018J	mg/L	0.040	08/31/21 16:49	
SM 2540C-2011	Total Dissolved Solids	54.0	mg/L	10.0	08/26/21 19:23	
EPA 300.0 Rev 2.1 1993	Chloride	5.0	mg/L	1.0	08/31/21 02:24	
EPA 300.0 Rev 2.1 1993	Sulfate	6.7	mg/L	1.0	08/31/21 02:24	
92557089004	**UP-DUP-2**					
EPA 6010D	Calcium	1.3	mg/L	1.0	08/31/21 17:06	
EPA 6020B	Barium	0.0080	mg/L	0.0050	08/31/21 16:55	
EPA 6020B	Beryllium	0.00020J	mg/L	0.00050	08/31/21 16:55	
EPA 6020B	Boron	0.017J	mg/L	0.040	08/31/21 16:55	
SM 2540C-2011	Total Dissolved Solids	55.0	mg/L	10.0	08/26/21 19:23	
EPA 300.0 Rev 2.1 1993	Chloride	5.0	mg/L	1.0	08/31/21 02:39	
EPA 300.0 Rev 2.1 1993	Sulfate	6.7	mg/L	1.0	08/31/21 02:39	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92557089005	**YGWA-1D**					
	Performed by	CUSTOMER			08/23/21 17:46	
	pH	6.32	Std. Units		08/23/21 17:46	
EPA 6010D	Calcium	14.2	mg/L	1.0	08/31/21 17:11	
EPA 6020B	Barium	0.0065	mg/L	0.0050	08/31/21 17:01	
EPA 6020B	Cobalt	0.00055J	mg/L	0.0050	08/31/21 17:01	
EPA 6020B	Lithium	0.013J	mg/L	0.030	08/31/21 17:01	
EPA 6020B	Molybdenum	0.0083J	mg/L	0.010	08/31/21 17:01	
SM 2540C-2011	Total Dissolved Solids	105	mg/L	10.0	08/26/21 19:23	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	08/31/21 03:24	
EPA 300.0 Rev 2.1 1993	Fluoride	0.074J	mg/L	0.10	08/31/21 03:24	
EPA 300.0 Rev 2.1 1993	Sulfate	8.9	mg/L	1.0	08/31/21 03:24	
92557089006	**YGWA-1I**					
	Performed by	CUSTOMER			08/23/21 17:46	
	pH	6.38	Std. Units		08/23/21 17:46	
EPA 6010D	Calcium	2.0	mg/L	1.0	08/31/21 17:16	
EPA 6020B	Barium	0.0079	mg/L	0.0050	08/31/21 17:07	
EPA 6020B	Cobalt	0.0017J	mg/L	0.0050	08/31/21 17:07	
EPA 6020B	Lithium	0.0023J	mg/L	0.030	08/31/21 17:07	
EPA 6020B	Molybdenum	0.0050J	mg/L	0.010	08/31/21 17:07	
SM 2540C-2011	Total Dissolved Solids	44.0	mg/L	10.0	08/26/21 19:24	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	08/31/21 03:39	
EPA 300.0 Rev 2.1 1993	Sulfate	4.9	mg/L	1.0	08/31/21 03:39	
92557089007	**YGWA-3D**					
	Performed by	CUSTOMER			08/23/21 17:46	
	pH	5.34	Std. Units		08/23/21 17:46	
EPA 6010D	Calcium	28.1	mg/L	1.0	08/31/21 17:20	
EPA 6020B	Barium	0.0052	mg/L	0.0050	08/31/21 17:38	
EPA 6020B	Lithium	0.023J	mg/L	0.030	08/31/21 17:38	
EPA 6020B	Molybdenum	0.013	mg/L	0.010	08/31/21 17:38	
SM 2540C-2011	Total Dissolved Solids	144	mg/L	10.0	08/26/21 19:24	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	08/31/21 03:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.47	mg/L	0.10	08/31/21 03:54	
EPA 300.0 Rev 2.1 1993	Sulfate	7.5	mg/L	1.0	08/31/21 03:54	
92557089008	**YGWA-47**					
	Performed by	CUSTOMER			08/23/21 17:46	
	pH	5.50	Std. Units		08/23/21 17:46	
EPA 6010D	Calcium	9.6	mg/L	1.0	08/31/21 18:00	
EPA 6020B	Barium	0.029	mg/L	0.0050	08/31/21 17:44	
EPA 6020B	Boron	0.011J	mg/L	0.040	08/31/21 17:44	
EPA 6020B	Cobalt	0.00099J	mg/L	0.0050	08/31/21 17:44	
EPA 6020B	Lithium	0.0038J	mg/L	0.030	08/31/21 17:44	
SM 2540C-2011	Total Dissolved Solids	134	mg/L	10.0	08/26/21 19:24	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	08/31/21 04:39	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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SUMMARY OF DETECTION

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92557089008	**YGWA-47**					
EPA 300.0 Rev 2.1 1993	Sulfate	52.6	mg/L	1.0	08/31/21 04:39	
92557089009	**YGWA-30I**					
	Performed by	CUSTOMER			09/07/21 08:26	
	Collected Time	5.43			09/07/21 08:26	
EPA 6010D	Calcium	1.2	mg/L	1.0	08/31/21 18:05	
EPA 6020B	Barium	0.0071	mg/L	0.0050	08/31/21 17:50	
EPA 6020B	Cobalt	0.0052	mg/L	0.0050	08/31/21 17:50	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	08/31/21 17:50	
SM 2540C-2011	Total Dissolved Solids	50.0	mg/L	10.0	08/26/21 19:24	
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	08/31/21 04:54	
EPA 300.0 Rev 2.1 1993	Sulfate	1.0	mg/L	1.0	08/31/21 04:54	
92557720005	**YGWA-39**					
	Performed by	CUSTOMER			08/30/21 09:54	
	pH	6.91	Std. Units		08/30/21 09:54	
EPA 6010D	Potassium	6.6	mg/L	0.20	09/09/21 15:23	
EPA 6010D	Sodium	29.6	mg/L	1.0	09/09/21 15:23	
EPA 6010D	Calcium	14.1	mg/L	1.0	09/09/21 15:23	
EPA 6010D	Magnesium	19.1	mg/L	0.050	09/09/21 15:23	
EPA 6020B	Barium	0.038	mg/L	0.0050	09/09/21 19:44	
EPA 6020B	Boron	0.095	mg/L	0.040	09/09/21 19:44	
EPA 6020B	Cadmium	0.00049J	mg/L	0.00050	09/09/21 19:44	
EPA 6020B	Cobalt	0.0011J	mg/L	0.0050	09/09/21 19:44	
EPA 6020B	Lithium	0.0082J	mg/L	0.030	09/09/21 19:44	
EPA 6020B	Molybdenum	0.0027J	mg/L	0.010	09/09/21 19:44	
SM 2540C-2011	Total Dissolved Solids	249	mg/L	10.0	08/31/21 16:26	
EPA 300.0 Rev 2.1 1993	Chloride	7.2	mg/L	1.0	09/06/21 03:00	
EPA 300.0 Rev 2.1 1993	Fluoride	0.063J	mg/L	0.10	09/06/21 03:00	
EPA 300.0 Rev 2.1 1993	Sulfate	19.2	mg/L	1.0	09/06/21 03:00	
92558251001	**YGWA-2I**					
	Performed by	CUSTOMER			08/30/21 09:57	
	pH	7.14	Std. Units		08/30/21 09:57	
EPA 6010D	Calcium	22.6	mg/L	1.0	09/01/21 14:45	M1
EPA 6020B	Barium	0.0030J	mg/L	0.0050	09/09/21 19:50	
EPA 6020B	Lithium	0.0058J	mg/L	0.030	09/09/21 19:50	
EPA 6020B	Molybdenum	0.0048J	mg/L	0.010	09/09/21 19:50	
SM 2540C-2011	Total Dissolved Solids	150	mg/L	10.0	08/31/21 16:51	
EPA 300.0 Rev 2.1 1993	Chloride	0.99J	mg/L	1.0	09/06/21 03:16	M1
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	09/06/21 03:16	M1
EPA 300.0 Rev 2.1 1993	Sulfate	16.7	mg/L	1.0	09/06/21 03:16	M1
92558251002	**YGWA-3I**					
	Performed by	CUSTOMER			08/30/21 09:57	
	pH	7.39	Std. Units		08/30/21 09:57	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92558251002	**YGWA-3I**					
EPA 6010D	Calcium	24.7	mg/L	1.0	09/01/21 15:04	
EPA 6020B	Barium	0.0039J	mg/L	0.0050	09/09/21 19:55	
EPA 6020B	Lithium	0.026J	mg/L	0.030	09/09/21 19:55	
EPA 6020B	Molybdenum	0.0099J	mg/L	0.010	09/09/21 19:55	
SM 2540C-2011	Total Dissolved Solids	155	mg/L	10.0	08/31/21 16:51	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	09/06/21 04:03	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	09/06/21 04:03	
EPA 300.0 Rev 2.1 1993	Sulfate	18.2	mg/L	1.0	09/06/21 04:03	
92558254002	**YGWA-4I**					
	Performed by	CUSTOMER			08/30/21 10:06	
	pH	5.82	Std. Units		08/30/21 10:06	
EPA 6010D	Calcium	7.6	mg/L	1.0	09/15/21 17:43	
EPA 6020B	Barium	0.012	mg/L	0.0050	09/16/21 09:38	
EPA 6020B	Cobalt	0.00042J	mg/L	0.0050	09/16/21 09:38	
EPA 6020B	Lithium	0.0094J	mg/L	0.030	09/16/21 09:38	
SM 2540C-2011	Total Dissolved Solids	93.0	mg/L	10.0	08/31/21 16:26	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	09/06/21 04:35	
EPA 300.0 Rev 2.1 1993	Sulfate	8.5	mg/L	1.0	09/06/21 04:35	
92558254003	**YGWA-5I**					
	Performed by	CUSTOMER			08/30/21 10:06	
	pH	5.51	Std. Units		08/30/21 10:06	
EPA 6010D	Calcium	2.5	mg/L	1.0	09/15/21 18:13	
EPA 6020B	Barium	0.019	mg/L	0.0050	09/16/21 09:44	
EPA 6020B	Lithium	0.0032J	mg/L	0.030	09/16/21 09:44	
SM 2540C-2011	Total Dissolved Solids	86.0	mg/L	10.0	08/31/21 16:27	
EPA 300.0 Rev 2.1 1993	Chloride	4.3	mg/L	1.0	09/06/21 05:23	
EPA 300.0 Rev 2.1 1993	Sulfate	2.4	mg/L	1.0	09/06/21 05:23	
92558254004	**UP-DUP-3**					
EPA 6010D	Calcium	2.5	mg/L	1.0	09/15/21 18:17	
EPA 6020B	Barium	0.018	mg/L	0.0050	09/16/21 09:50	
EPA 6020B	Lithium	0.0031J	mg/L	0.030	09/16/21 09:50	
SM 2540C-2011	Total Dissolved Solids	80.0	mg/L	10.0	08/31/21 16:27	
EPA 300.0 Rev 2.1 1993	Chloride	4.3	mg/L	1.0	09/06/21 05:39	
EPA 300.0 Rev 2.1 1993	Sulfate	2.5	mg/L	1.0	09/06/21 05:39	
92558254005	**YGWA-5D**					
	Performed by	CUSTOMER			08/30/21 10:06	
	pH	7.16	Std. Units		08/30/21 10:06	
EPA 6010D	Calcium	25.2	mg/L	1.0	09/15/21 18:22	
EPA 6020B	Arsenic	0.0016J	mg/L	0.0050	09/16/21 09:55	
EPA 6020B	Barium	0.0092	mg/L	0.0050	09/16/21 09:55	
EPA 6020B	Boron	0.0090J	mg/L	0.040	09/16/21 09:55	
EPA 6020B	Lithium	0.0075J	mg/L	0.030	09/16/21 09:55	
EPA 6020B	Molybdenum	0.0010J	mg/L	0.010	09/16/21 09:55	

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SUMMARY OF DETECTION

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92558254005	**YGWA-5D**					
SM 2540C-2011	Total Dissolved Solids	123	mg/L	10.0	08/31/21 16:50	
EPA 300.0 Rev 2.1 1993	Chloride	3.4	mg/L	1.0	09/06/21 05:55	
EPA 300.0 Rev 2.1 1993	Fluoride	0.061J	mg/L	0.10	09/06/21 05:55	
EPA 300.0 Rev 2.1 1993	Sulfate	6.0	mg/L	1.0	09/06/21 05:55	
92558254006	**YGWA-17S**					
	Performed by	CUSTOMER			08/30/21 10:07	
	pH	5.27	Std. Units		08/30/21 10:07	
EPA 6010D	Calcium	2.7	mg/L	1.0	09/15/21 18:27	
EPA 6020B	Barium	0.016	mg/L	0.0050	09/16/21 10:36	
EPA 6020B	Beryllium	0.00010J	mg/L	0.00050	09/16/21 10:36	
EPA 6020B	Boron	0.011J	mg/L	0.040	09/16/21 10:36	
SM 2540C-2011	Total Dissolved Solids	93.0	mg/L	10.0	08/31/21 16:52	
EPA 300.0 Rev 2.1 1993	Chloride	8.5	mg/L	1.0	09/06/21 06:11	
EPA 300.0 Rev 2.1 1993	Sulfate	5.3	mg/L	1.0	09/06/21 06:11	
92558254007	**YGWA-18S**					
	Performed by	CUSTOMER			08/30/21 10:07	
	pH	4.40	Std. Units		08/30/21 10:07	
EPA 6010D	Calcium	0.98J	mg/L	1.0	09/15/21 18:32	
EPA 6020B	Barium	0.015	mg/L	0.0050	09/16/21 10:41	
EPA 6020B	Beryllium	0.000093J	mg/L	0.00050	09/16/21 10:41	
EPA 6020B	Lithium	0.0019J	mg/L	0.030	09/16/21 10:41	
SM 2540C-2011	Total Dissolved Solids	31.0	mg/L	10.0	08/31/21 16:50	
EPA 300.0 Rev 2.1 1993	Chloride	7.3	mg/L	1.0	09/06/21 06:27	
EPA 300.0 Rev 2.1 1993	Sulfate	1.2	mg/L	1.0	09/06/21 06:27	
92558254008	**YGWA-18I**					
	Performed by	CUSTOMER			08/30/21 10:07	
	pH	5.40	Std. Units		08/30/21 10:07	
EPA 6010D	Calcium	5.1	mg/L	1.0	09/15/21 18:36	
EPA 6020B	Barium	0.020	mg/L	0.0050	09/16/21 10:47	
EPA 6020B	Lithium	0.0032J	mg/L	0.030	09/16/21 10:47	
SM 2540C-2011	Total Dissolved Solids	112	mg/L	10.0	08/31/21 16:52	
EPA 300.0 Rev 2.1 1993	Chloride	7.4	mg/L	1.0	09/06/21 06:43	
EPA 300.0 Rev 2.1 1993	Sulfate	0.59J	mg/L	1.0	09/06/21 06:43	
92558254009	**YGWA-20S**					
	Performed by	CUSTOMER			08/30/21 10:07	
	pH	5.57	Std. Units		08/30/21 10:07	
EPA 6010D	Calcium	2.4	mg/L	1.0	09/15/21 18:41	
EPA 6020B	Barium	0.013	mg/L	0.0050	09/16/21 10:53	
EPA 6020B	Beryllium	0.000059J	mg/L	0.00050	09/16/21 10:53	
SM 2540C-2011	Total Dissolved Solids	67.0	mg/L	10.0	08/31/21 16:52	
EPA 300.0 Rev 2.1 1993	Chloride	2.8	mg/L	1.0	09/06/21 07:31	M1

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SUMMARY OF DETECTION

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92558254014	**YGWA-21I**					
	Performed by	CUSTOMER			09/03/21 11:11	
	pH	6.65	Std. Units		09/03/21 11:11	
EPA 6010D	Calcium	9.5	mg/L	1.0	09/15/21 19:15	
EPA 6020B	Barium	0.0099	mg/L	0.0050	09/16/21 11:21	
EPA 6020B	Cobalt	0.0068	mg/L	0.0050	09/16/21 11:21	
EPA 6020B	Lithium	0.0057J	mg/L	0.030	09/16/21 11:21	
SM 2540C-2011	Total Dissolved Solids	137	mg/L	10.0	09/07/21 13:47	
EPA 300.0 Rev 2.1 1993	Chloride	1.8	mg/L	1.0	09/08/21 07:26	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	09/08/21 07:26	
EPA 300.0 Rev 2.1 1993	Sulfate	5.0	mg/L	1.0	09/08/21 07:26	
92559527001	**YGWA-40**					
	Performed by	CUSTOMER			09/03/21 17:47	
	pH	4.75	Std. Units		09/03/21 17:47	
EPA 6010D	Calcium	5.6	mg/L	1.0	09/13/21 16:20	
EPA 6020B	Barium	0.035	mg/L	0.0050	09/14/21 19:02	
EPA 6020B	Beryllium	0.00024J	mg/L	0.00050	09/14/21 19:02	
EPA 6020B	Boron	0.077	mg/L	0.040	09/14/21 19:02	
EPA 6020B	Magnesium	3.1	mg/L	0.050	09/14/21 19:02	
EPA 6020B	Potassium	2.0	mg/L	0.10	09/14/21 19:02	
EPA 6020B	Sodium	9.1	mg/L	0.10	09/14/21 19:02	
EPA 7470A	Mercury	0.00012J	mg/L	0.00020	09/21/21 10:46	
SM 2540C-2011	Total Dissolved Solids	88.0	mg/L	10.0	09/08/21 14:23	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	13.8	mg/L	5.0	09/13/21 17:45	
SM 2320B-2011	Alkalinity, Total as CaCO3	13.8	mg/L	5.0	09/13/21 17:45	
EPA 300.0 Rev 2.1 1993	Chloride	5.5	mg/L	1.0	09/10/21 09:18	
EPA 300.0 Rev 2.1 1993	Sulfate	21.3	mg/L	1.0	09/10/21 09:18	

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ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: UP-DUP-1 **Lab ID: 92557089001** Collected: 08/20/21 00:00 Received: 08/20/21 17:30 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	**26.0**	mg/L	1.0	0.12	1	08/31/21 09:25	08/31/21 16:52	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	08/31/21 09:25	08/31/21 16:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 16:38	7440-38-2	
Barium	**0.033**	mg/L	0.0050	0.00067	1	08/31/21 09:25	08/31/21 16:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/31/21 09:25	08/31/21 16:38	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/31/21 09:25	08/31/21 16:38	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/31/21 09:25	08/31/21 16:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 16:38	7440-47-3	
Cobalt	**0.065**	mg/L	0.0050	0.00039	1	08/31/21 09:25	08/31/21 16:38	7440-48-4	
Copper	**0.00087J**	mg/L	0.0050	0.00050	1	08/31/21 09:25	08/31/21 16:38	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	08/31/21 09:25	08/31/21 16:38	7439-92-1	
Lithium	**0.0027J**	mg/L	0.030	0.00073	1	08/31/21 09:25	08/31/21 16:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/31/21 09:25	08/31/21 16:38	7439-98-7	
Nickel	**0.013**	mg/L	0.0050	0.00071	1	08/31/21 09:25	08/31/21 16:38	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	08/31/21 09:25	08/31/21 16:38	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	08/31/21 09:25	08/31/21 16:38	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	08/31/21 09:25	08/31/21 16:38	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	08/31/21 09:25	08/31/21 16:38	7440-62-2	
Zinc	**0.012**	mg/L	0.010	0.0070	1	08/31/21 09:25	08/31/21 16:38	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	0.000078	1	08/30/21 12:30	08/31/21 11:40	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**245**	mg/L	10.0	10.0	1		08/27/21 14:06		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.2**	mg/L	1.0	0.60	1		08/31/21 01:54	16887-00-6	
Fluoride	**0.079J**	mg/L	0.10	0.050	1		08/31/21 01:54	16984-48-8	
Sulfate	**120**	mg/L	3.0	1.5	3		08/31/21 15:04	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: GWA-2 **Lab ID: 92557089002** Collected: 08/20/21 12:00 Received: 08/20/21 17:30 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		08/23/21 17:45		
pH	**5.86**	Std. Units			1		08/23/21 17:45		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**26.5**	mg/L	1.0	0.12	1	08/31/21 09:25	08/31/21 16:56	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	08/31/21 09:25	08/31/21 16:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 16:44	7440-38-2	
Barium	**0.036**	mg/L	0.0050	0.00067	1	08/31/21 09:25	08/31/21 16:44	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/31/21 09:25	08/31/21 16:44	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/31/21 09:25	08/31/21 16:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/31/21 09:25	08/31/21 16:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 16:44	7440-47-3	
Cobalt	**0.074**	mg/L	0.0050	0.00039	1	08/31/21 09:25	08/31/21 16:44	7440-48-4	
Copper	**0.0012J**	mg/L	0.0050	0.00050	1	08/31/21 09:25	08/31/21 16:44	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	08/31/21 09:25	08/31/21 16:44	7439-92-1	
Lithium	**0.0028J**	mg/L	0.030	0.00073	1	08/31/21 09:25	08/31/21 16:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/31/21 09:25	08/31/21 16:44	7439-98-7	
Nickel	**0.014**	mg/L	0.0050	0.00071	1	08/31/21 09:25	08/31/21 16:44	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	08/31/21 09:25	08/31/21 16:44	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	08/31/21 09:25	08/31/21 16:44	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	08/31/21 09:25	08/31/21 16:44	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	08/31/21 09:25	08/31/21 16:44	7440-62-2	
Zinc	**0.014**	mg/L	0.010	0.0070	1	08/31/21 09:25	08/31/21 16:44	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	0.000078	1	08/30/21 12:30	08/31/21 11:43	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**254**	mg/L	10.0	10.0	1		08/27/21 14:06		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.2**	mg/L	1.0	0.60	1		08/31/21 02:08	16887-00-6	
Fluoride	**0.060J**	mg/L	0.10	0.050	1		08/31/21 02:08	16984-48-8	
Sulfate	**121**	mg/L	3.0	1.5	3		08/31/21 15:19	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-14S **Lab ID: 92557089003** Collected: 08/19/21 11:00 Received: 08/20/21 17:30 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		08/23/21 17:45		
pH	**7.32**	Std. Units			1		08/23/21 17:45		
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	08/31/21 09:25	08/31/21 17:01	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	08/31/21 09:25	08/31/21 16:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 16:49	7440-38-2	
Barium	**0.0077**	mg/L	0.0050	0.00067	1	08/31/21 09:25	08/31/21 16:49	7440-39-3	
Beryllium	**0.00022J**	mg/L	0.00050	0.000054	1	08/31/21 09:25	08/31/21 16:49	7440-41-7	
Boron	**0.018J**	mg/L	0.040	0.0086	1	08/31/21 09:25	08/31/21 16:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/31/21 09:25	08/31/21 16:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 16:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/31/21 09:25	08/31/21 16:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/31/21 09:25	08/31/21 16:49	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/31/21 09:25	08/31/21 16:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/31/21 09:25	08/31/21 16:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/31/21 09:25	08/31/21 16:49	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**54.0**	mg/L	10.0	10.0	1		08/26/21 19:23		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.0**	mg/L	1.0	0.60	1		08/31/21 02:24	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/31/21 02:24	16984-48-8	
Sulfate	**6.7**	mg/L	1.0	0.50	1		08/31/21 02:24	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: UP-DUP-2 **Lab ID: 92557089004** Collected: 08/19/21 00:00 Received: 08/20/21 17:30 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	**1.3**	mg/L	1.0	0.12	1	08/31/21 09:25	08/31/21 17:06	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	08/31/21 09:25	08/31/21 16:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 16:55	7440-38-2	
Barium	**0.0080**	mg/L	0.0050	0.00067	1	08/31/21 09:25	08/31/21 16:55	7440-39-3	
Beryllium	**0.00020J**	mg/L	0.00050	0.000054	1	08/31/21 09:25	08/31/21 16:55	7440-41-7	
Boron	**0.017J**	mg/L	0.040	0.0086	1	08/31/21 09:25	08/31/21 16:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/31/21 09:25	08/31/21 16:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 16:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/31/21 09:25	08/31/21 16:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/31/21 09:25	08/31/21 16:55	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	08/31/21 09:25	08/31/21 16:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/31/21 09:25	08/31/21 16:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/31/21 09:25	08/31/21 16:55	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**55.0**	mg/L	10.0	10.0	1		08/26/21 19:23		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.0**	mg/L	1.0	0.60	1		08/31/21 02:39	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/31/21 02:39	16984-48-8	
Sulfate	**6.7**	mg/L	1.0	0.50	1		08/31/21 02:39	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-1D **Lab ID: 92557089005** Collected: 08/19/21 11:10 Received: 08/20/21 17:30 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		08/23/21 17:46		
pH	**6.32**	Std. Units			1		08/23/21 17:46		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**14.2**	mg/L	1.0	0.12	1	08/31/21 09:25	08/31/21 17:11	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	08/31/21 09:25	08/31/21 17:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 17:01	7440-38-2	
Barium	**0.0065**	mg/L	0.0050	0.00067	1	08/31/21 09:25	08/31/21 17:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/31/21 09:25	08/31/21 17:01	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/31/21 09:25	08/31/21 17:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/31/21 09:25	08/31/21 17:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 17:01	7440-47-3	
Cobalt	**0.00055J**	mg/L	0.0050	0.00039	1	08/31/21 09:25	08/31/21 17:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/31/21 09:25	08/31/21 17:01	7439-92-1	
Lithium	**0.013J**	mg/L	0.030	0.00073	1	08/31/21 09:25	08/31/21 17:01	7439-93-2	
Molybdenum	**0.0083J**	mg/L	0.010	0.00074	1	08/31/21 09:25	08/31/21 17:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/31/21 09:25	08/31/21 17:01	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**105**	mg/L	10.0	10.0	1		08/26/21 19:23		
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		08/31/21 03:24	16887-00-6	
Fluoride	**0.074J**	mg/L	0.10	0.050	1		08/31/21 03:24	16984-48-8	
Sulfate	**8.9**	mg/L	1.0	0.50	1		08/31/21 03:24	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-1I **Lab ID: 92557089006** Collected: 08/19/21 12:49 Received: 08/20/21 17:30 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		08/23/21 17:46		
pH	**6.38**	Std. Units			1		08/23/21 17:46		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**2.0**	mg/L	1.0	0.12	1	08/31/21 09:25	08/31/21 17:16	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	08/31/21 09:25	08/31/21 17:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 17:07	7440-38-2	
Barium	**0.0079**	mg/L	0.0050	0.00067	1	08/31/21 09:25	08/31/21 17:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/31/21 09:25	08/31/21 17:07	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/31/21 09:25	08/31/21 17:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/31/21 09:25	08/31/21 17:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 17:07	7440-47-3	
Cobalt	**0.0017J**	mg/L	0.0050	0.00039	1	08/31/21 09:25	08/31/21 17:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/31/21 09:25	08/31/21 17:07	7439-92-1	
Lithium	**0.0023J**	mg/L	0.030	0.00073	1	08/31/21 09:25	08/31/21 17:07	7439-93-2	
Molybdenum	**0.0050J**	mg/L	0.010	0.00074	1	08/31/21 09:25	08/31/21 17:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/31/21 09:25	08/31/21 17:07	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**44.0**	mg/L	10.0	10.0	1		08/26/21 19:24		
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		08/31/21 03:39	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/31/21 03:39	16984-48-8	
Sulfate	**4.9**	mg/L	1.0	0.50	1		08/31/21 03:39	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-3D **Lab ID: 92557089007** Collected: 08/19/21 14:45 Received: 08/20/21 17:30 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		08/23/21 17:46		
pH	**5.34**	Std. Units			1		08/23/21 17:46		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**28.1**	mg/L	1.0	0.12	1	08/31/21 09:25	08/31/21 17:20	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	08/31/21 09:25	08/31/21 17:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 17:38	7440-38-2	
Barium	**0.0052**	mg/L	0.0050	0.00067	1	08/31/21 09:25	08/31/21 17:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/31/21 09:25	08/31/21 17:38	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/31/21 09:25	08/31/21 17:38	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/31/21 09:25	08/31/21 17:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 17:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/31/21 09:25	08/31/21 17:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/31/21 09:25	08/31/21 17:38	7439-92-1	
Lithium	**0.023J**	mg/L	0.030	0.00073	1	08/31/21 09:25	08/31/21 17:38	7439-93-2	
Molybdenum	**0.013**	mg/L	0.010	0.00074	1	08/31/21 09:25	08/31/21 17:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/31/21 09:25	08/31/21 17:38	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**144**	mg/L	10.0	10.0	1		08/26/21 19:24		
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		08/31/21 03:54	16887-00-6	
Fluoride	**0.47**	mg/L	0.10	0.050	1		08/31/21 03:54	16984-48-8	
Sulfate	**7.5**	mg/L	1.0	0.50	1		08/31/21 03:54	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-47 **Lab ID: 92557089008** Collected: 08/19/21 10:26 Received: 08/20/21 17:30 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		08/23/21 17:46		
pH	**5.50**	Std. Units			1		08/23/21 17:46		
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	08/31/21 09:25	08/31/21 18:00	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	08/31/21 09:25	08/31/21 17:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 17:44	7440-38-2	
Barium	**0.029**	mg/L	0.0050	0.00067	1	08/31/21 09:25	08/31/21 17:44	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/31/21 09:25	08/31/21 17:44	7440-41-7	
Boron	**0.011J**	mg/L	0.040	0.0086	1	08/31/21 09:25	08/31/21 17:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/31/21 09:25	08/31/21 17:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 17:44	7440-47-3	
Cobalt	**0.00099J**	mg/L	0.0050	0.00039	1	08/31/21 09:25	08/31/21 17:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/31/21 09:25	08/31/21 17:44	7439-92-1	
Lithium	**0.0038J**	mg/L	0.030	0.00073	1	08/31/21 09:25	08/31/21 17:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/31/21 09:25	08/31/21 17:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/31/21 09:25	08/31/21 17:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	08/31/21 09:25	08/31/21 17:44	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	0.000078	1	08/30/21 12:30	08/31/21 12:05	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**134**	mg/L	10.0	10.0	1		08/26/21 19:24		
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		08/31/21 04:39	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/31/21 04:39	16984-48-8	
Sulfate	**52.6**	mg/L	1.0	0.50	1		08/31/21 04:39	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-30I **Lab ID: 92557089009** Collected: 08/19/21 12:20 Received: 08/20/21 17:30 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		09/07/21 08:26		
Collected Time	**5.43**				1		09/07/21 08:26		
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	08/31/21 09:25	08/31/21 18:05	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	08/31/21 09:25	08/31/21 17:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 17:50	7440-38-2	
Barium	**0.0071**	mg/L	0.0050	0.00067	1	08/31/21 09:25	08/31/21 17:50	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/31/21 09:25	08/31/21 17:50	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/31/21 09:25	08/31/21 17:50	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/31/21 09:25	08/31/21 17:50	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/31/21 09:25	08/31/21 17:50	7440-47-3	
Cobalt	**0.0052**	mg/L	0.0050	0.00039	1	08/31/21 09:25	08/31/21 17:50	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	08/31/21 09:25	08/31/21 17:50	7439-92-1	
Lithium	**0.0012J**	mg/L	0.030	0.00073	1	08/31/21 09:25	08/31/21 17:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/31/21 09:25	08/31/21 17:50	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	08/31/21 09:25	08/31/21 17:50	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**50.0**	mg/L	10.0	10.0	1		08/26/21 19:24		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.6**	mg/L	1.0	0.60	1		08/31/21 04:54	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/31/21 04:54	16984-48-8	
Sulfate	**1.0**	mg/L	1.0	0.50	1		08/31/21 04:54	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-39 **Lab ID: 92557720005** Collected: 08/26/21 12:30 Received: 08/27/21 16:40 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		08/30/21 09:54		
pH	**6.91**	Std. Units			1		08/30/21 09:54		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**6.6**	mg/L	0.20	0.15	1	09/09/21 11:30	09/09/21 15:23	7440-09-7	
Sodium	**29.6**	mg/L	1.0	0.58	1	09/09/21 11:30	09/09/21 15:23	7440-23-5	
Calcium	**14.1**	mg/L	1.0	0.12	1	09/09/21 11:30	09/09/21 15:23	7440-70-2	
Magnesium	**19.1**	mg/L	0.050	0.012	1	09/09/21 11:30	09/09/21 15:23	7439-95-4	
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	09/09/21 11:00	09/09/21 19:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/09/21 11:00	09/09/21 19:44	7440-38-2	
Barium	**0.038**	mg/L	0.0050	0.00067	1	09/09/21 11:00	09/09/21 19:44	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/09/21 11:00	09/09/21 19:44	7440-41-7	
Boron	**0.095**	mg/L	0.040	0.0086	1	09/09/21 11:00	09/09/21 19:44	7440-42-8	
Cadmium	**0.00049J**	mg/L	0.00050	0.00011	1	09/09/21 11:00	09/09/21 19:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/09/21 11:00	09/09/21 19:44	7440-47-3	
Cobalt	**0.0011J**	mg/L	0.0050	0.00039	1	09/09/21 11:00	09/09/21 19:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/09/21 11:00	09/09/21 19:44	7439-92-1	
Lithium	**0.0082J**	mg/L	0.030	0.00073	1	09/09/21 11:00	09/09/21 19:44	7439-93-2	
Molybdenum	**0.0027J**	mg/L	0.010	0.00074	1	09/09/21 11:00	09/09/21 19:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/09/21 11:00	09/09/21 19:44	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/09/21 10:30	09/09/21 16:59	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**249**	mg/L	10.0	10.0	1		08/31/21 16:26		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.2**	mg/L	1.0	0.60	1		09/06/21 03:00	16887-00-6	
Fluoride	**0.063J**	mg/L	0.10	0.050	1		09/06/21 03:00	16984-48-8	
Sulfate	**19.2**	mg/L	1.0	0.50	1		09/06/21 03:00	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-2I **Lab ID: 92558251001** Collected: 08/27/21 11:33 Received: 08/27/21 16:40 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		08/30/21 09:57		
pH	**7.14**	Std. Units			1		08/30/21 09:57		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**22.6**	mg/L	1.0	0.12	1	09/01/21 10:48	09/01/21 14:45	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	09/09/21 11:00	09/09/21 19:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/09/21 11:00	09/09/21 19:50	7440-38-2	
Barium	**0.0030J**	mg/L	0.0050	0.00067	1	09/09/21 11:00	09/09/21 19:50	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/09/21 11:00	09/09/21 19:50	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/09/21 11:00	09/09/21 19:50	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/09/21 11:00	09/09/21 19:50	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/09/21 11:00	09/09/21 19:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/09/21 11:00	09/09/21 19:50	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/09/21 11:00	09/09/21 19:50	7439-92-1	
Lithium	**0.0058J**	mg/L	0.030	0.00073	1	09/09/21 11:00	09/09/21 19:50	7439-93-2	
Molybdenum	**0.0048J**	mg/L	0.010	0.00074	1	09/09/21 11:00	09/09/21 19:50	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/09/21 11:00	09/09/21 19:50	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**150**	mg/L	10.0	10.0	1		08/31/21 16:51		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**0.99J**	mg/L	1.0	0.60	1		09/06/21 03:16	16887-00-6	M1
Fluoride	**0.12**	mg/L	0.10	0.050	1		09/06/21 03:16	16984-48-8	M1
Sulfate	**16.7**	mg/L	1.0	0.50	1		09/06/21 03:16	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-3I **Lab ID: 92558251002** Collected: 08/27/21 09:55 Received: 08/27/21 16:40 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		08/30/21 09:57		
pH	**7.39**	Std. Units			1		08/30/21 09:57		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**24.7**	mg/L	1.0	0.12	1	09/01/21 10:48	09/01/21 15:04	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	09/09/21 11:00	09/09/21 19:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/09/21 11:00	09/09/21 19:55	7440-38-2	
Barium	**0.0039J**	mg/L	0.0050	0.00067	1	09/09/21 11:00	09/09/21 19:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/09/21 11:00	09/09/21 19:55	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/09/21 11:00	09/09/21 19:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/09/21 11:00	09/09/21 19:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/09/21 11:00	09/09/21 19:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/09/21 11:00	09/09/21 19:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/09/21 11:00	09/09/21 19:55	7439-92-1	
Lithium	**0.026J**	mg/L	0.030	0.00073	1	09/09/21 11:00	09/09/21 19:55	7439-93-2	
Molybdenum	**0.0099J**	mg/L	0.010	0.00074	1	09/09/21 11:00	09/09/21 19:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/09/21 11:00	09/09/21 19:55	7782-49-2	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**155**	mg/L	10.0	10.0	1		08/31/21 16:51		
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		09/06/21 04:03	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		09/06/21 04:03	16984-48-8	
Sulfate	**18.2**	mg/L	1.0	0.50	1		09/06/21 04:03	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: UP-FB-2 **Lab ID: 92558254001** Collected: 08/26/21 17:10 Received: 08/27/21 16:40 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	09/14/21 11:36	09/14/21 16:39	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	09/15/21 13:00	09/16/21 09:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 09:32	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/15/21 13:00	09/16/21 09:32	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/15/21 13:00	09/16/21 09:32	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/15/21 13:00	09/16/21 09:32	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/15/21 13:00	09/16/21 09:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 09:32	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/15/21 13:00	09/16/21 09:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/15/21 13:00	09/16/21 09:32	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/15/21 13:00	09/16/21 09:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/15/21 13:00	09/16/21 09:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/15/21 13:00	09/16/21 09:32	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/15/21 10:30	09/15/21 14:13	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		08/31/21 16:26		
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		09/06/21 04:19	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/06/21 04:19	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/06/21 04:19	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-4I **Lab ID: 92558254002** Collected: 08/26/21 11:29 Received: 08/27/21 16:40 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		08/30/21 10:06		
pH	**5.82**	Std. Units			1		08/30/21 10:06		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**7.6**	mg/L	1.0	0.12	1	09/15/21 11:37	09/15/21 17:43	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	09/15/21 13:00	09/16/21 09:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 09:38	7440-38-2	
Barium	**0.012**	mg/L	0.0050	0.00067	1	09/15/21 13:00	09/16/21 09:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/15/21 13:00	09/16/21 09:38	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/15/21 13:00	09/16/21 09:38	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/15/21 13:00	09/16/21 09:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 09:38	7440-47-3	
Cobalt	**0.00042J**	mg/L	0.0050	0.00039	1	09/15/21 13:00	09/16/21 09:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/15/21 13:00	09/16/21 09:38	7439-92-1	
Lithium	**0.0094J**	mg/L	0.030	0.00073	1	09/15/21 13:00	09/16/21 09:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/15/21 13:00	09/16/21 09:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/15/21 13:00	09/16/21 09:38	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/15/21 10:30	09/15/21 14:24	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**93.0**	mg/L	10.0	10.0	1		08/31/21 16:26		
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		09/06/21 04:35	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/06/21 04:35	16984-48-8	
Sulfate	**8.5**	mg/L	1.0	0.50	1		09/06/21 04:35	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-5I **Lab ID: 92558254003** Collected: 08/26/21 16:28 Received: 08/27/21 16:40 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		08/30/21 10:06		
pH	**5.51**	Std. Units			1		08/30/21 10:06		
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	09/15/21 11:37	09/15/21 18:13	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	09/15/21 13:00	09/16/21 09:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 09:44	7440-38-2	
Barium	**0.019**	mg/L	0.0050	0.00067	1	09/15/21 13:00	09/16/21 09:44	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/15/21 13:00	09/16/21 09:44	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/15/21 13:00	09/16/21 09:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/15/21 13:00	09/16/21 09:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 09:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/15/21 13:00	09/16/21 09:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/15/21 13:00	09/16/21 09:44	7439-92-1	
Lithium	**0.0032J**	mg/L	0.030	0.00073	1	09/15/21 13:00	09/16/21 09:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/15/21 13:00	09/16/21 09:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/15/21 13:00	09/16/21 09:44	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/15/21 10:30	09/15/21 14:26	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**86.0**	mg/L	10.0	10.0	1		08/31/21 16:27		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.3**	mg/L	1.0	0.60	1		09/06/21 05:23	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/06/21 05:23	16984-48-8	
Sulfate	**2.4**	mg/L	1.0	0.50	1		09/06/21 05:23	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: UP-DUP-3 **Lab ID: 92558254004** Collected: 08/26/21 00:00 Received: 08/27/21 16:40 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	**2.5**	mg/L	1.0	0.12	1	09/15/21 11:37	09/15/21 18:17	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	09/15/21 13:00	09/16/21 09:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 09:50	7440-38-2	
Barium	**0.018**	mg/L	0.0050	0.00067	1	09/15/21 13:00	09/16/21 09:50	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/15/21 13:00	09/16/21 09:50	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/15/21 13:00	09/16/21 09:50	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/15/21 13:00	09/16/21 09:50	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 09:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/15/21 13:00	09/16/21 09:50	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/15/21 13:00	09/16/21 09:50	7439-92-1	
Lithium	**0.0031J**	mg/L	0.030	0.00073	1	09/15/21 13:00	09/16/21 09:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/15/21 13:00	09/16/21 09:50	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/15/21 13:00	09/16/21 09:50	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/15/21 10:30	09/15/21 14:29	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**80.0**	mg/L	10.0	10.0	1		08/31/21 16:27		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.3**	mg/L	1.0	0.60	1		09/06/21 05:39	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/06/21 05:39	16984-48-8	
Sulfate	**2.5**	mg/L	1.0	0.50	1		09/06/21 05:39	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-5D **Lab ID: 92558254005** Collected: 08/26/21 13:35 Received: 08/27/21 16:40 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		08/30/21 10:06		
pH	**7.16**	Std. Units			1		08/30/21 10:06		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**25.2**	mg/L	1.0	0.12	1	09/15/21 11:37	09/15/21 18:22	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	09/15/21 13:00	09/16/21 09:55	7440-36-0	
Arsenic	**0.0016J**	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 09:55	7440-38-2	
Barium	**0.0092**	mg/L	0.0050	0.00067	1	09/15/21 13:00	09/16/21 09:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/15/21 13:00	09/16/21 09:55	7440-41-7	
Boron	**0.0090J**	mg/L	0.040	0.0086	1	09/15/21 13:00	09/16/21 09:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/15/21 13:00	09/16/21 09:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 09:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/15/21 13:00	09/16/21 09:55	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/15/21 13:00	09/16/21 09:55	7439-92-1	
Lithium	**0.0075J**	mg/L	0.030	0.00073	1	09/15/21 13:00	09/16/21 09:55	7439-93-2	
Molybdenum	**0.0010J**	mg/L	0.010	0.00074	1	09/15/21 13:00	09/16/21 09:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/15/21 13:00	09/16/21 09:55	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/15/21 10:30	09/15/21 14:37	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**123**	mg/L	10.0	10.0	1		08/31/21 16:50		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.4**	mg/L	1.0	0.60	1		09/06/21 05:55	16887-00-6	
Fluoride	**0.061J**	mg/L	0.10	0.050	1		09/06/21 05:55	16984-48-8	
Sulfate	**6.0**	mg/L	1.0	0.50	1		09/06/21 05:55	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-17S **Lab ID: 92558254006** Collected: 08/27/21 10:45 Received: 08/27/21 16:40 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		08/30/21 10:07		
pH	**5.27**	Std. Units			1		08/30/21 10:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**2.7**	mg/L	1.0	0.12	1	09/15/21 11:37	09/15/21 18:27	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	09/15/21 13:00	09/16/21 10:36	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 10:36	7440-38-2	
Barium	**0.016**	mg/L	0.0050	0.00067	1	09/15/21 13:00	09/16/21 10:36	7440-39-3	
Beryllium	**0.00010J**	mg/L	0.00050	0.000054	1	09/15/21 13:00	09/16/21 10:36	7440-41-7	
Boron	**0.011J**	mg/L	0.040	0.0086	1	09/15/21 13:00	09/16/21 10:36	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/15/21 13:00	09/16/21 10:36	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 10:36	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/15/21 13:00	09/16/21 10:36	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/15/21 13:00	09/16/21 10:36	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/15/21 13:00	09/16/21 10:36	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/15/21 13:00	09/16/21 10:36	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/15/21 13:00	09/16/21 10:36	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/15/21 10:30	09/15/21 14:39	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**93.0**	mg/L	10.0	10.0	1		08/31/21 16:52		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**8.5**	mg/L	1.0	0.60	1		09/06/21 06:11	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/06/21 06:11	16984-48-8	
Sulfate	**5.3**	mg/L	1.0	0.50	1		09/06/21 06:11	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-18S **Lab ID: 92558254007** Collected: 08/26/21 15:35 Received: 08/27/21 16:40 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		08/30/21 10:07		
pH	**4.40**	Std. Units			1		08/30/21 10:07		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**0.98J**	mg/L	1.0	0.12	1	09/15/21 11:37	09/15/21 18:32	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	09/15/21 13:00	09/16/21 10:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 10:41	7440-38-2	
Barium	**0.015**	mg/L	0.0050	0.00067	1	09/15/21 13:00	09/16/21 10:41	7440-39-3	
Beryllium	**0.000093J**	mg/L	0.00050	0.000054	1	09/15/21 13:00	09/16/21 10:41	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/15/21 13:00	09/16/21 10:41	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/15/21 13:00	09/16/21 10:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 10:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/15/21 13:00	09/16/21 10:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/15/21 13:00	09/16/21 10:41	7439-92-1	
Lithium	**0.0019J**	mg/L	0.030	0.00073	1	09/15/21 13:00	09/16/21 10:41	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/15/21 13:00	09/16/21 10:41	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/15/21 13:00	09/16/21 10:41	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/15/21 10:30	09/15/21 14:42	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**31.0**	mg/L	10.0	10.0	1		08/31/21 16:50		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.3**	mg/L	1.0	0.60	1		09/06/21 06:27	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/06/21 06:27	16984-48-8	
Sulfate	**1.2**	mg/L	1.0	0.50	1		09/06/21 06:27	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-18I **Lab ID: 92558254008** Collected: 08/27/21 09:35 Received: 08/27/21 16:40 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		08/30/21 10:07		
pH	**5.40**	Std. Units			1		08/30/21 10:07		
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	09/15/21 11:37	09/15/21 18:36	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	09/15/21 13:00	09/16/21 10:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 10:47	7440-38-2	
Barium	**0.020**	mg/L	0.0050	0.00067	1	09/15/21 13:00	09/16/21 10:47	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/15/21 13:00	09/16/21 10:47	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/15/21 13:00	09/16/21 10:47	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/15/21 13:00	09/16/21 10:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 10:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/15/21 13:00	09/16/21 10:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/15/21 13:00	09/16/21 10:47	7439-92-1	
Lithium	**0.0032J**	mg/L	0.030	0.00073	1	09/15/21 13:00	09/16/21 10:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/15/21 13:00	09/16/21 10:47	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/15/21 13:00	09/16/21 10:47	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/15/21 10:30	09/15/21 14:45	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**112**	mg/L	10.0	10.0	1		08/31/21 16:52		
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		09/06/21 06:43	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/06/21 06:43	16984-48-8	
Sulfate	**0.59J**	mg/L	1.0	0.50	1		09/06/21 06:43	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-20S **Lab ID: 92558254009** Collected: 08/27/21 13:10 Received: 08/27/21 16:40 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		08/30/21 10:07		
pH	**5.57**	Std. Units			1		08/30/21 10:07		
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	09/15/21 11:37	09/15/21 18:41	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	09/15/21 13:00	09/16/21 10:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 10:53	7440-38-2	
Barium	**0.013**	mg/L	0.0050	0.00067	1	09/15/21 13:00	09/16/21 10:53	7440-39-3	
Beryllium	**0.000059J**	mg/L	0.00050	0.000054	1	09/15/21 13:00	09/16/21 10:53	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/15/21 13:00	09/16/21 10:53	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/15/21 13:00	09/16/21 10:53	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 10:53	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/15/21 13:00	09/16/21 10:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/15/21 13:00	09/16/21 10:53	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/15/21 13:00	09/16/21 10:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/15/21 13:00	09/16/21 10:53	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/15/21 13:00	09/16/21 10:53	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/15/21 10:30	09/15/21 14:47	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**67.0**	mg/L	10.0	10.0	1		08/31/21 16:52		
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		09/06/21 07:31	16887-00-6	M1
Fluoride	ND	mg/L	0.10	0.050	1		09/06/21 07:31	16984-48-8	M1
Sulfate	ND	mg/L	1.0	0.50	1		09/06/21 07:31	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-21I **Lab ID: 92558254014** Collected: 09/01/21 14:40 Received: 09/02/21 17:02 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		09/03/21 11:11		
pH	**6.65**	Std. Units			1		09/03/21 11:11		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**9.5**	mg/L	1.0	0.12	1	09/15/21 11:37	09/15/21 19:15	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	09/15/21 13:00	09/16/21 11:21	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 11:21	7440-38-2	
Barium	**0.0099**	mg/L	0.0050	0.00067	1	09/15/21 13:00	09/16/21 11:21	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/15/21 13:00	09/16/21 11:21	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/15/21 13:00	09/16/21 11:21	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/15/21 13:00	09/16/21 11:21	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/15/21 13:00	09/16/21 11:21	7440-47-3	
Cobalt	**0.0068**	mg/L	0.0050	0.00039	1	09/15/21 13:00	09/16/21 11:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/15/21 13:00	09/16/21 11:21	7439-92-1	
Lithium	**0.0057J**	mg/L	0.030	0.00073	1	09/15/21 13:00	09/16/21 11:21	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/15/21 13:00	09/16/21 11:21	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/15/21 13:00	09/16/21 11:21	7782-49-2	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.000078	1	09/15/21 10:30	09/15/21 15:06	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**137**	mg/L	10.0	10.0	1		09/07/21 13:47		
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		09/08/21 07:26	16887-00-6	
Fluoride	**0.11**	mg/L	0.10	0.050	1		09/08/21 07:26	16984-48-8	
Sulfate	**5.0**	mg/L	1.0	0.50	1		09/08/21 07:26	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-40 **Lab ID: 92559527001** Collected: 09/03/21 10:20 Received: 09/03/21 17:30 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		09/03/21 17:47		
pH	**4.75**	Std. Units			1		09/03/21 17:47		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**5.6**	mg/L	1.0	0.12	1	09/11/21 09:00	09/13/21 16:20	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	09/11/21 09:00	09/14/21 19:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	09/11/21 09:00	09/14/21 19:02	7440-38-2	
Barium	**0.035**	mg/L	0.0050	0.00067	1	09/11/21 09:00	09/14/21 19:02	7440-39-3	
Beryllium	**0.00024J**	mg/L	0.00050	0.000054	1	09/11/21 09:00	09/14/21 19:02	7440-41-7	
Boron	**0.077**	mg/L	0.040	0.0086	1	09/11/21 09:00	09/14/21 19:02	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/11/21 09:00	09/14/21 19:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/11/21 09:00	09/14/21 19:02	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/11/21 09:00	09/14/21 19:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/11/21 09:00	09/14/21 19:02	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/11/21 09:00	09/14/21 19:02	7439-93-2	
Magnesium	**3.1**	mg/L	0.050	0.0074	1	09/11/21 09:00	09/14/21 19:02	7439-95-4	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/11/21 09:00	09/14/21 19:02	7439-98-7	
Potassium	**2.0**	mg/L	0.10	0.047	1	09/11/21 09:00	09/14/21 19:02	7440-09-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/11/21 09:00	09/14/21 19:02	7782-49-2	
Sodium	**9.1**	mg/L	0.10	0.022	1	09/11/21 09:00	09/14/21 19:02	7440-23-5	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00012J**	mg/L	0.00020	0.000078	1	09/21/21 07:00	09/21/21 10:46	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**88.0**	mg/L	10.0	10.0	1		09/08/21 14:23		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**13.8**	mg/L	5.0	5.0	1		09/13/21 17:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		09/13/21 17:45		
Alkalinity, Total as CaCO3	**13.8**	mg/L	5.0	5.0	1		09/13/21 17:45		
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		09/10/21 09:18	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/10/21 09:18	16984-48-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-40 **Lab ID: 92559527001** Collected: 09/03/21 10:20 Received: 09/03/21 17:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**21.3**	mg/L	1.0	0.50	1		09/10/21 09:18	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 644090
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92557089001, 92557089002, 92557089003, 92557089004, 92557089005, 92557089006, 92557089007, 92557089008, 92557089009

METHOD BLANK: 3379384 Matrix: Water
Associated Lab Samples: 92557089001, 92557089002, 92557089003, 92557089004, 92557089005, 92557089006, 92557089007, 92557089008, 92557089009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/31/21 15:03	

LABORATORY CONTROL SAMPLE: 3379385

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: 3379386 3379387

Parameter	Units	92555948008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	141	1	1	141	141	-23	-77	75-125	0	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 644451
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92558251001, 92558251002

METHOD BLANK: 3381031 Matrix: Water
Associated Lab Samples: 92558251001, 92558251002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/01/21 14:13	

LABORATORY CONTROL SAMPLE: 3381032

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3381033 3381034

Parameter	Units	92558251001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	22.6	1	1	24.4	24.2	181	153	75-125	1	20	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 645799
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92557720005

METHOD BLANK: 3387400 Matrix: Water
Associated Lab Samples: 92557720005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/09/21 14:40	
Magnesium	mg/L	ND	0.050	0.012	09/09/21 14:40	
Potassium	mg/L	ND	0.20	0.15	09/09/21 14:40	
Sodium	mg/L	ND	1.0	0.58	09/09/21 14:40	

LABORATORY CONTROL SAMPLE: 3387401

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	107	80-120	
Magnesium	mg/L	1	1.1	108	80-120	
Potassium	mg/L	1	1.0	104	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3387402 3387403

Parameter	Units	92557720001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	79.9	1	1	78.2	78.5	-168	-139	75-125	0	20	M1
Magnesium	mg/L	80.9	1	1	79.7	80.4	-116	-50	75-125	1	20	M1
Potassium	mg/L	11.5	1	1	12.3	12.5	73	92	75-125	2	20	M1
Sodium	mg/L	36.4	1	1	36.7	37.2	28	79	75-125	1	20	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 646610
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92559527001

METHOD BLANK: 3391819 Matrix: Water
Associated Lab Samples: 92559527001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/13/21 14:48	

LABORATORY CONTROL SAMPLE: 3391820

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3391821 3391822

Parameter	Units	92558259010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	1.4	1	1	2.5	2.5	106	109	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 647011
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92558254001

METHOD BLANK: 3393694 Matrix: Water
Associated Lab Samples: 92558254001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/14/21 16:29	

LABORATORY CONTROL SAMPLE: 3393695

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: 3393696 3393697

Parameter	Units	92558254001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	ND	1	1	1.1	1.0	108	103	75-125	4	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 647336
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92558254002, 92558254003, 92558254004, 92558254005, 92558254006, 92558254007, 92558254008, 92558254009, 92558254014

METHOD BLANK: 3395362 Matrix: Water
Associated Lab Samples: 92558254002, 92558254003, 92558254004, 92558254005, 92558254006, 92558254007, 92558254008, 92558254009, 92558254014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/15/21 17:34	

LABORATORY CONTROL SAMPLE: 3395363

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3395364 3395365

Parameter	Units	92558254002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	7.6	1	1	8.6	8.8	93	118	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

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 644091
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92557089001, 92557089002, 92557089003, 92557089004, 92557089005, 92557089006, 92557089007, 92557089008, 92557089009

METHOD BLANK: 3379388 Matrix: Water
Associated Lab Samples: 92557089001, 92557089002, 92557089003, 92557089004, 92557089005, 92557089006, 92557089007, 92557089008, 92557089009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	08/31/21 15:02	
Arsenic	mg/L	ND	0.0050	0.0011	08/31/21 15:02	
Barium	mg/L	ND	0.0050	0.00067	08/31/21 15:02	
Beryllium	mg/L	ND	0.00050	0.000054	08/31/21 15:02	
Boron	mg/L	ND	0.040	0.0086	08/31/21 15:02	
Cadmium	mg/L	ND	0.00050	0.00011	08/31/21 15:02	
Chromium	mg/L	ND	0.0050	0.0011	08/31/21 15:02	
Cobalt	mg/L	ND	0.0050	0.00039	08/31/21 15:02	
Copper	mg/L	ND	0.0050	0.00050	08/31/21 15:02	
Lead	mg/L	ND	0.0010	0.00089	08/31/21 15:02	
Lithium	mg/L	ND	0.030	0.00073	08/31/21 15:02	
Molybdenum	mg/L	ND	0.010	0.00074	08/31/21 15:02	
Nickel	mg/L	ND	0.0050	0.00071	08/31/21 15:02	
Selenium	mg/L	ND	0.0050	0.0014	08/31/21 15:02	
Silver	mg/L	ND	0.0050	0.00044	08/31/21 15:02	
Thallium	mg/L	ND	0.0010	0.00018	08/31/21 15:02	
Vanadium	mg/L	ND	0.010	0.0019	08/31/21 15:02	
Zinc	mg/L	ND	0.010	0.0070	08/31/21 15:02	

LABORATORY CONTROL SAMPLE: 3379389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.092	92	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.090	90	80-120	
Beryllium	mg/L	0.1	0.10	100	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.10	104	80-120	
Cobalt	mg/L	0.1	0.10	103	80-120	
Copper	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.10	102	80-120	
Molybdenum	mg/L	0.1	0.092	92	80-120	
Nickel	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Silver	mg/L	0.1	0.094	94	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

LABORATORY CONTROL SAMPLE: 3379389

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	mg/L	0.1	0.10	102	80-120	
Vanadium	mg/L	0.1	0.10	104	80-120	
Zinc	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3379390 3379391

Parameter	Units	92555948009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.091	0.089	91	89	75-125	2	20	
Arsenic	mg/L	0.0014J	0.1	0.1	0.10	0.096	100	95	75-125	5	20	
Barium	mg/L	0.029	0.1	0.1	0.13	0.13	104	101	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.098	0.094	97	94	75-125	3	20	
Boron	mg/L	0.093	1	1	1.1	1.1	103	97	75-125	5	20	
Cadmium	mg/L	ND	0.1	0.1	0.098	0.095	98	95	75-125	3	20	
Chromium	mg/L	0.0012J	0.1	0.1	0.11	0.10	107	102	75-125	4	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	103	101	75-125	3	20	
Copper	mg/L	ND	0.1	0.1	0.10	0.097	101	97	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.099	0.093	99	92	75-125	7	20	
Lithium	mg/L	ND	0.1	0.1	0.099	0.097	98	96	75-125	2	20	
Molybdenum	mg/L	0.0019J	0.1	0.1	0.097	0.094	95	92	75-125	3	20	
Nickel	mg/L	ND	0.1	0.1	0.10	0.098	103	98	75-125	5	20	
Selenium	mg/L	ND	0.1	0.1	0.098	0.097	98	97	75-125	1	20	
Silver	mg/L	ND	0.1	0.1	0.092	0.089	92	89	75-125	4	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.094	100	94	75-125	6	20	
Vanadium	mg/L	ND	0.1	0.1	0.11	0.10	107	103	75-125	4	20	
Zinc	mg/L	ND	0.1	0.1	0.10	0.10	99	99	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 645800
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92557720005, 92558251001, 92558251002

METHOD BLANK: 3387411 Matrix: Water
Associated Lab Samples: 92557720005, 92558251001, 92558251002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/09/21 16:19	
Arsenic	mg/L	ND	0.0050	0.0011	09/09/21 16:19	
Barium	mg/L	ND	0.0050	0.00067	09/09/21 16:19	
Beryllium	mg/L	ND	0.00050	0.000054	09/09/21 16:19	
Boron	mg/L	ND	0.040	0.0086	09/09/21 16:19	
Cadmium	mg/L	ND	0.00050	0.00011	09/09/21 16:19	
Chromium	mg/L	ND	0.0050	0.0011	09/09/21 16:19	
Cobalt	mg/L	ND	0.0050	0.00039	09/09/21 16:19	
Lead	mg/L	ND	0.0010	0.00089	09/09/21 16:19	
Lithium	mg/L	ND	0.030	0.00073	09/09/21 16:19	
Molybdenum	mg/L	ND	0.010	0.00074	09/09/21 16:19	
Selenium	mg/L	ND	0.0050	0.0014	09/09/21 16:19	

LABORATORY CONTROL SAMPLE: 3387412

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	0.10	102	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	0.96	96	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	
Molybdenum	mg/L	0.1	0.11	106	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3387413 3387414

Parameter	Units	92557720004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	107	106	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20	
Barium	mg/L	0.049	0.1	0.1	0.15	0.15	102	102	75-125	0	20	
Beryllium	mg/L	0.00019J	0.1	0.1	0.10	0.095	101	95	75-125	6	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3387413 3387414

Parameter	Units	92557720004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Boron	mg/L	1.3	1	1	2.1	2.1	85	78	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	100	75-125	2	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.098	101	98	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Lithium	mg/L	0.0026J	0.1	0.1	0.10	0.097	100	94	75-125	6	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	104	106	75-125	2	20	
Selenium	mg/L	0.032	0.1	0.1	0.13	0.13	102	103	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 646612
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92559527001

METHOD BLANK: 3391827 Matrix: Water
Associated Lab Samples: 92559527001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/14/21 17:25	
Arsenic	mg/L	ND	0.0050	0.0011	09/14/21 17:25	
Barium	mg/L	ND	0.0050	0.00067	09/14/21 17:25	
Beryllium	mg/L	ND	0.00050	0.000054	09/14/21 17:25	
Boron	mg/L	ND	0.040	0.0086	09/14/21 17:25	
Cadmium	mg/L	ND	0.00050	0.00011	09/14/21 17:25	
Chromium	mg/L	ND	0.0050	0.0011	09/14/21 17:25	
Cobalt	mg/L	ND	0.0050	0.00039	09/14/21 17:25	
Lead	mg/L	ND	0.0010	0.00089	09/14/21 17:25	
Lithium	mg/L	ND	0.030	0.00073	09/14/21 17:25	
Magnesium	mg/L	ND	0.050	0.0074	09/14/21 17:25	
Molybdenum	mg/L	ND	0.010	0.00074	09/14/21 17:25	
Potassium	mg/L	ND	0.10	0.047	09/14/21 17:25	
Selenium	mg/L	ND	0.0050	0.0014	09/14/21 17:25	
Sodium	mg/L	ND	0.10	0.022	09/14/21 17:25	

LABORATORY CONTROL SAMPLE: 3391828

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.099	99	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.094	94	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.094	94	80-120	
Lithium	mg/L	0.1	0.099	99	80-120	
Magnesium	mg/L	1	1.0	104	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Potassium	mg/L	1	1.0	100	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Sodium	mg/L	1	0.99	99	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3391829 3391830

Parameter	Units	92559417001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.099	100	98	75-125	1	20	
Barium	mg/L	0.028	0.1	0.1	0.13	0.13	98	99	75-125	0	20	
Beryllium	mg/L	0.00016J	0.1	0.1	0.097	0.099	97	98	75-125	2	20	
Boron	mg/L	1.2	1	1	2.3	2.5	92	116	75-125	10	20	
Cadmium	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.098	101	98	75-125	4	20	
Lead	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	1	20	
Lithium	mg/L	0.0014J	0.1	0.1	0.099	0.10	98	102	75-125	4	20	
Magnesium	mg/L	14.1	1	1	14.0	14.9	-15	74	75-125	6	20	M1
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	1	20	
Potassium	mg/L	1.7	1	1	2.6	2.7	88	94	75-125	2	20	
Selenium	mg/L	0.021	0.1	0.1	0.12	0.12	100	101	75-125	1	20	
Sodium	mg/L	10	1	1	10.3	10.8	30	81	75-125	5	20	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 647371
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92558254001, 92558254002, 92558254003, 92558254004, 92558254005, 92558254006, 92558254007, 92558254008, 92558254009, 92558254014

METHOD BLANK: 3395597 Matrix: Water
Associated Lab Samples: 92558254001, 92558254002, 92558254003, 92558254004, 92558254005, 92558254006, 92558254007, 92558254008, 92558254009, 92558254014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/16/21 09:21	
Arsenic	mg/L	ND	0.0050	0.0011	09/16/21 09:21	
Barium	mg/L	ND	0.0050	0.00067	09/16/21 09:21	
Beryllium	mg/L	ND	0.00050	0.000054	09/16/21 09:21	
Boron	mg/L	ND	0.040	0.0086	09/16/21 09:21	
Cadmium	mg/L	ND	0.00050	0.00011	09/16/21 09:21	
Chromium	mg/L	ND	0.0050	0.0011	09/16/21 09:21	
Cobalt	mg/L	ND	0.0050	0.00039	09/16/21 09:21	
Lead	mg/L	ND	0.0010	0.00089	09/16/21 09:21	
Lithium	mg/L	ND	0.030	0.00073	09/16/21 09:21	
Molybdenum	mg/L	ND	0.010	0.00074	09/16/21 09:21	
Selenium	mg/L	ND	0.0050	0.0014	09/16/21 09:21	

LABORATORY CONTROL SAMPLE: 3395598

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	0.10	102	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.094	94	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	104	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	100	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3395599 3395600

Parameter	Units	92558254005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Arsenic	mg/L	0.0016J	0.1	0.1	0.10	0.10	102	100	75-125	2	20	
Barium	mg/L	0.0092	0.1	0.1	0.11	0.11	99	99	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3395599 3395600

Parameter	Units	92558254005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Beryllium	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Boron	mg/L	0.0090J	1	1	0.98	1.0	98	100	75-125	2	20	
Cadmium	mg/L	ND	0.1	0.1	0.098	0.10	98	100	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20	
Lithium	mg/L	0.0075J	0.1	0.1	0.11	0.11	101	101	75-125	0	20	
Molybdenum	mg/L	0.0010J	0.1	0.1	0.10	0.10	100	101	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.096	0.089	96	89	75-125	8	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 643872
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92557089001, 92557089002, 92557089008

METHOD BLANK: 3378197 Matrix: Water
Associated Lab Samples: 92557089001, 92557089002, 92557089008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	08/31/21 10:48	

LABORATORY CONTROL SAMPLE: 3378198

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0022	87	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3378199 3378200

Parameter	Units	92557081001 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	0.0020	0.0020	80	82	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 646057
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92557720005

METHOD BLANK: 3388621 Matrix: Water
Associated Lab Samples: 92557720005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	09/09/21 16:28	

LABORATORY CONTROL SAMPLE: 3388622

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3388623 3388624

Parameter	Units	92557720001 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	0.0025	0.0022	98	88	75-125	12	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 647249
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92558254001, 92558254002, 92558254003, 92558254004, 92558254005, 92558254006, 92558254007, 92558254008, 92558254009, 92558254014

METHOD BLANK: 3394978 Matrix: Water
Associated Lab Samples: 92558254001, 92558254002, 92558254003, 92558254004, 92558254005, 92558254006, 92558254007, 92558254008, 92558254009, 92558254014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	09/15/21 14:08	

LABORATORY CONTROL SAMPLE: 3394979

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3394980 3394981

Parameter	Units	92558254001 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	0.0024	95	95	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 648334
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92559527001

METHOD BLANK: 3400299 Matrix: Water
Associated Lab Samples: 92559527001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.000078	09/21/21 10:38	

LABORATORY CONTROL SAMPLE: 3400300

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3400301 3400302

Parameter	Units	92560635001 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	92	91	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 643142 | Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92557089003, 92557089004, 92557089005, 92557089006, 92557089007, 92557089008, 92557089009

METHOD BLANK: 3374773 Matrix: Water
Associated Lab Samples: 92557089003, 92557089004, 92557089005, 92557089006, 92557089007, 92557089008, 92557089009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	08/26/21 19:22	

LABORATORY CONTROL SAMPLE: 3374774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	396	99	90-111	

SAMPLE DUPLICATE: 3374775

Parameter	Units	92557073003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	391	407	4	10	

SAMPLE DUPLICATE: 3374776

Parameter	Units	92557089008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	134	144	7	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 643454
QC Batch Method: SM 2540C-2011
Analysis Method: SM 2540C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92557089001, 92557089002

METHOD BLANK: 3376456 Matrix: Water
Associated Lab Samples: 92557089001, 92557089002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	08/27/21 14:05	

LABORATORY CONTROL SAMPLE: 3376457

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	394	98	90-111	

SAMPLE DUPLICATE: 3376458

Parameter	Units	92557088009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	192	203	6	10	

SAMPLE DUPLICATE: 3376459

Parameter	Units	92555948030 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	2040	2150	5	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 644073 | Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92557720005, 92558254001, 92558254002, 92558254003, 92558254004

METHOD BLANK: 3379366 Matrix: Water
Associated Lab Samples: 92557720005, 92558254001, 92558254002, 92558254003, 92558254004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	08/31/21 16:23	

LABORATORY CONTROL SAMPLE: 3379367

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	408	102	90-111	

SAMPLE DUPLICATE: 3379368

Parameter	Units	92557720003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	822	870	6	10	

SAMPLE DUPLICATE: 3379369

Parameter	Units	92555948054 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	10.0	ND		10	

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 644074 | Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92558251001, 92558251002, 92558254005, 92558254006, 92558254007, 92558254008, 92558254009

METHOD BLANK: 3379370 Matrix: Water
Associated Lab Samples: 92558251001, 92558251002, 92558254005, 92558254006, 92558254007, 92558254008, 92558254009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	08/31/21 16:50	

LABORATORY CONTROL SAMPLE: 3379371

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	405	101	90-111	

SAMPLE DUPLICATE: 3379372

Parameter	Units	92558254005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	123	128	4	10	

SAMPLE DUPLICATE: 3379373

Parameter	Units	92558251001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	150	151	1	10	

SAMPLE DUPLICATE: 3380417

Parameter	Units	92555945014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	396	414	4	10	H1

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 645434
QC Batch Method: SM 2540C-2011
Analysis Method: SM 2540C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92558254014

METHOD BLANK: 3385639 Matrix: Water
Associated Lab Samples: 92558254014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/07/21 13:45	

LABORATORY CONTROL SAMPLE: 3385640

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	393	98	90-111	

SAMPLE DUPLICATE: 3385641

Parameter	Units	92558572001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	197	201	2	10	

SAMPLE DUPLICATE: 3385642

Parameter	Units	92558720005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	39.0	54.0	32	10	R1

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 645665
QC Batch Method: SM 2540C-2011
Analysis Method: SM 2540C-2011
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92559527001

METHOD BLANK: 3386951 Matrix: Water
Associated Lab Samples: 92559527001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/08/21 14:20	

LABORATORY CONTROL SAMPLE: 3386952

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	391	98	90-111	

SAMPLE DUPLICATE: 3386953

Parameter	Units	92558259011 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	163	174	7	10	

SAMPLE DUPLICATE: 3386954

Parameter	Units	92559417002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	546	557	2	10	

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 646359
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92559527001

METHOD BLANK: 3390347 Matrix: Water
Associated Lab Samples: 92559527001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	09/13/21 12:18	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	09/13/21 12:18	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	09/13/21 12:18	

LABORATORY CONTROL SAMPLE: 3390348

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

LABORATORY CONTROL SAMPLE: 3390349

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.1	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3390350 3390351

Parameter	Units	92559892005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	<5.0	50	50	51.8	50.2	104	100	80-120	3	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3390352 3390353

Parameter	Units	92559527001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	13.8	50	50	69.9	70.0	112	112	80-120	0	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 644028
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92557089001, 92557089002, 92557089003, 92557089004, 92557089005, 92557089006, 92557089007, 92557089008, 92557089009

METHOD BLANK: 3379266 Matrix: Water
Associated Lab Samples: 92557089001, 92557089002, 92557089003, 92557089004, 92557089005, 92557089006, 92557089007, 92557089008, 92557089009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/30/21 22:40	
Fluoride	mg/L	ND	0.10	0.050	08/30/21 22:40	
Sulfate	mg/L	ND	1.0	0.50	08/30/21 22:40	

LABORATORY CONTROL SAMPLE: 3379267

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.5	99	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	50.3	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3379268 3379269

Parameter	Units	92558089003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	19300	50	50	4810	17900	-29000	-2800	90-110	115	10	M1,R1
Fluoride	mg/L	6.5J	2.5	2.5	8.5J	8.6J	80	84	90-110		10	M1
Sulfate	mg/L	1340	50	50	1480	1380	263	71	90-110	7	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3379270 3379271

Parameter	Units	92557089004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.0	50	50	56.3	58.9	103	108	90-110	5	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	102	107	90-110	4	10	
Sulfate	mg/L	6.7	50	50	58.8	61.3	104	109	90-110	4	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 645268
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92557720005, 92558251001, 92558251002, 92558254001, 92558254002, 92558254003, 92558254004, 92558254005, 92558254006, 92558254007, 92558254008

METHOD BLANK: 3385176 Matrix: Water
Associated Lab Samples: 92557720005, 92558251001, 92558251002, 92558254001, 92558254002, 92558254003, 92558254004, 92558254005, 92558254006, 92558254007, 92558254008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/05/21 23:01	
Fluoride	mg/L	ND	0.10	0.050	09/05/21 23:01	
Sulfate	mg/L	ND	1.0	0.50	09/05/21 23:01	

LABORATORY CONTROL SAMPLE: 3385177

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.2	98	90-110	
Fluoride	mg/L	2.5	2.3	94	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3385178 3385179

Parameter	Units	92555948053 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	274	50	50	326	328	105	109	90-110	1	10	
Fluoride	mg/L	0.15	2.5	2.5	3.6	3.6	139	139	90-110	0	10	M1
Sulfate	mg/L	285	50	50	344	347	119	124	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3385180 3385181

Parameter	Units	92558251001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	0.99J	50	50	66.4	67.0	131	132	90-110	1	10	M1
Fluoride	mg/L	0.12	2.5	2.5	3.4	3.4	133	132	90-110	0	10	M1
Sulfate	mg/L	16.7	50	50	85.1	85.4	137	137	90-110	0	10	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 645269
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92558254009

METHOD BLANK: 3385184 Matrix: Water
Associated Lab Samples: 92558254009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/06/21 06:59	
Fluoride	mg/L	ND	0.10	0.050	09/06/21 06:59	
Sulfate	mg/L	ND	1.0	0.50	09/06/21 06:59	

LABORATORY CONTROL SAMPLE: 3385185

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.5	99	90-110	
Fluoride	mg/L	2.5	2.4	94	90-110	
Sulfate	mg/L	50	51.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3385186 3385187

Parameter	Units	92558254009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.8	50	50	68.7	69.4	132	133	90-110	1	10	M1
Fluoride	mg/L	ND	2.5	2.5	3.3	3.3	130	130	90-110	0	10	M1
Sulfate	mg/L	ND	50	50	69.3	69.9	138	140	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3385188 3385189

Parameter	Units	92558560001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	13.8	50	50	67.3	67.5	107	107	90-110	0	10	
Fluoride	mg/L	0.29	2.5	2.5	3.0	3.0	110	109	90-110	1	10	
Sulfate	mg/L	27.9	50	50	82.7	82.7	110	110	90-110	0	10	

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 645412
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92558254014

METHOD BLANK: 3385548 Matrix: Water
Associated Lab Samples: 92558254014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/08/21 05:04	
Fluoride	mg/L	ND	0.10	0.050	09/08/21 05:04	
Sulfate	mg/L	ND	1.0	0.50	09/08/21 05:04	

LABORATORY CONTROL SAMPLE: 3385549

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.7	99	90-110	
Fluoride	mg/L	2.5	2.4	94	90-110	
Sulfate	mg/L	50	50.8	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3385550 3385551

Parameter	Units	92559210006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.9	50	50	57.8	55.9	110	106	90-110	3	10	
Fluoride	mg/L	ND	2.5	2.5	2.8	2.7	109	105	90-110	3	10	
Sulfate	mg/L	ND	50	50	54.9	54.2	108	107	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3385552 3385553

Parameter	Units	92559417003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.3	50	50	57.3	56.1	108	106	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	105	102	90-110	3	10	
Sulfate	mg/L	1.3	50	50	56.2	55.0	110	107	90-110	2	10	

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 646087
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92559527001

METHOD BLANK: 3388785 Matrix: Water
Associated Lab Samples: 92559527001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/10/21 03:14	
Fluoride	mg/L	ND	0.10	0.050	09/10/21 03:14	
Sulfate	mg/L	ND	1.0	0.50	09/10/21 03:14	

LABORATORY CONTROL SAMPLE: 3388786

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.4	103	90-110	
Fluoride	mg/L	2.5	2.4	96	90-110	
Sulfate	mg/L	50	52.9	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3388787 3388788

Parameter	Units	92560111002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.9	50	50	60.1	60.7	109	110	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	1.2	1.1	47	43	90-110	7	10	M1
Sulfate	mg/L	ND	50	50	57.6	58.0	114	115	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3388789 3388790

Parameter	Units	92559452001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	15.6	50	50	69.0	69.3	107	107	90-110	0	10	
Fluoride	mg/L		2.5	2.5	3.2	3.2	105	105	90-110	0	10	
Sulfate	mg/L		50	50	73.2	73.4	111	111	90-110	0	10	M1

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

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

H1	Analysis conducted outside the EPA method holding time.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
R1	RPD value was outside control limits.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92557089002	GWA-2				
92557089003	YGWA-14S				
92557089005	YGWA-1D				
92557089006	YGWA-1I				
92557089007	YGWA-3D				
92557089008	YGWA-47				
92557089009	YGWA-30I				
92557720005	YGWA-39				
92558251001	YGWA-2I				
92558251002	YGWA-3I				
92558254002	YGWA-4I				
92558254003	YGWA-5I				
92558254005	YGWA-5D				
92558254006	YGWA-17S				
92558254007	YGWA-18S				
92558254008	YGWA-18I				
92558254009	YGWA-20S				
92558254014	YGWA-21I				
92559527001	YGWA-40				
92557089001	UP-DUP-1	EPA 3010A	644090	EPA 6010D	644167
92557089002	GWA-2	EPA 3010A	644090	EPA 6010D	644167
92557089003	YGWA-14S	EPA 3010A	644090	EPA 6010D	644167
92557089004	UP-DUP-2	EPA 3010A	644090	EPA 6010D	644167
92557089005	YGWA-1D	EPA 3010A	644090	EPA 6010D	644167
92557089006	YGWA-1I	EPA 3010A	644090	EPA 6010D	644167
92557089007	YGWA-3D	EPA 3010A	644090	EPA 6010D	644167
92557089008	YGWA-47	EPA 3010A	644090	EPA 6010D	644167
92557089009	YGWA-30I	EPA 3010A	644090	EPA 6010D	644167
92557720005	YGWA-39	EPA 3010A	645799	EPA 6010D	646162
92558251001	YGWA-2I	EPA 3010A	644451	EPA 6010D	644531
92558251002	YGWA-3I	EPA 3010A	644451	EPA 6010D	644531
92558254001	UP-FB-2	EPA 3010A	647011	EPA 6010D	647060
92558254002	YGWA-4I	EPA 3010A	647336	EPA 6010D	647380
92558254003	YGWA-5I	EPA 3010A	647336	EPA 6010D	647380
92558254004	UP-DUP-3	EPA 3010A	647336	EPA 6010D	647380
92558254005	YGWA-5D	EPA 3010A	647336	EPA 6010D	647380
92558254006	YGWA-17S	EPA 3010A	647336	EPA 6010D	647380
92558254007	YGWA-18S	EPA 3010A	647336	EPA 6010D	647380
92558254008	YGWA-18I	EPA 3010A	647336	EPA 6010D	647380
92558254009	YGWA-20S	EPA 3010A	647336	EPA 6010D	647380
92558254014	YGWA-21I	EPA 3010A	647336	EPA 6010D	647380
92559527001	YGWA-40	EPA 3010A	646610	EPA 6010D	646635
92557089001	UP-DUP-1	EPA 3005A	644091	EPA 6020B	644223
92557089002	GWA-2	EPA 3005A	644091	EPA 6020B	644223
92557089003	YGWA-14S	EPA 3005A	644091	EPA 6020B	644223

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92557089004	UP-DUP-2	EPA 3005A	644091	EPA 6020B	644223
92557089005	YGWA-1D	EPA 3005A	644091	EPA 6020B	644223
92557089006	YGWA-1I	EPA 3005A	644091	EPA 6020B	644223
92557089007	YGWA-3D	EPA 3005A	644091	EPA 6020B	644223
92557089008	YGWA-47	EPA 3005A	644091	EPA 6020B	644223
92557089009	YGWA-30I	EPA 3005A	644091	EPA 6020B	644223
92557720005	YGWA-39	EPA 3005A	645800	EPA 6020B	646175
92558251001	YGWA-2I	EPA 3005A	645800	EPA 6020B	646175
92558251002	YGWA-3I	EPA 3005A	645800	EPA 6020B	646175
92558254001	UP-FB-2	EPA 3005A	647371	EPA 6020B	647475
92558254002	YGWA-4I	EPA 3005A	647371	EPA 6020B	647475
92558254003	YGWA-5I	EPA 3005A	647371	EPA 6020B	647475
92558254004	UP-DUP-3	EPA 3005A	647371	EPA 6020B	647475
92558254005	YGWA-5D	EPA 3005A	647371	EPA 6020B	647475
92558254006	YGWA-17S	EPA 3005A	647371	EPA 6020B	647475
92558254007	YGWA-18S	EPA 3005A	647371	EPA 6020B	647475
92558254008	YGWA-18I	EPA 3005A	647371	EPA 6020B	647475
92558254009	YGWA-20S	EPA 3005A	647371	EPA 6020B	647475
92558254014	YGWA-21I	EPA 3005A	647371	EPA 6020B	647475
92559527001	YGWA-40	EPA 3005A	646612	EPA 6020B	646637
92557089001	UP-DUP-1	EPA 7470A	643872	EPA 7470A	643926
92557089002	GWA-2	EPA 7470A	643872	EPA 7470A	643926
92557089008	YGWA-47	EPA 7470A	643872	EPA 7470A	643926
92557720005	YGWA-39	EPA 7470A	646057	EPA 7470A	646168
92558254001	UP-FB-2	EPA 7470A	647249	EPA 7470A	647342
92558254002	YGWA-4I	EPA 7470A	647249	EPA 7470A	647342
92558254003	YGWA-5I	EPA 7470A	647249	EPA 7470A	647342
92558254004	UP-DUP-3	EPA 7470A	647249	EPA 7470A	647342
92558254005	YGWA-5D	EPA 7470A	647249	EPA 7470A	647342
92558254006	YGWA-17S	EPA 7470A	647249	EPA 7470A	647342
92558254007	YGWA-18S	EPA 7470A	647249	EPA 7470A	647342
92558254008	YGWA-18I	EPA 7470A	647249	EPA 7470A	647342
92558254009	YGWA-20S	EPA 7470A	647249	EPA 7470A	647342
92558254014	YGWA-21I	EPA 7470A	647249	EPA 7470A	647342
92559527001	YGWA-40	EPA 7470A	648334	EPA 7470A	648431
92557089001	UP-DUP-1	SM 2540C-2011	643454		
92557089002	GWA-2	SM 2540C-2011	643454		
92557089003	YGWA-14S	SM 2540C-2011	643142		
92557089004	UP-DUP-2	SM 2540C-2011	643142		
92557089005	YGWA-1D	SM 2540C-2011	643142		
92557089006	YGWA-1I	SM 2540C-2011	643142		
92557089007	YGWA-3D	SM 2540C-2011	643142		
92557089008	YGWA-47	SM 2540C-2011	643142		
92557089009	YGWA-30I	SM 2540C-2011	643142		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92557720005	YGWA-39	SM 2540C-2011	644073		
92558251001	YGWA-2I	SM 2540C-2011	644074		
92558251002	YGWA-3I	SM 2540C-2011	644074		
92558254001	UP-FB-2	SM 2540C-2011	644073		
92558254002	YGWA-4I	SM 2540C-2011	644073		
92558254003	YGWA-5I	SM 2540C-2011	644073		
92558254004	UP-DUP-3	SM 2540C-2011	644073		
92558254005	YGWA-5D	SM 2540C-2011	644074		
92558254006	YGWA-17S	SM 2540C-2011	644074		
92558254007	YGWA-18S	SM 2540C-2011	644074		
92558254008	YGWA-18I	SM 2540C-2011	644074		
92558254009	YGWA-20S	SM 2540C-2011	644074		
92558254014	YGWA-21I	SM 2540C-2011	645434		
92559527001	YGWA-40	SM 2540C-2011	645665		
92559527001	YGWA-40	SM 2320B-2011	646359		
92557089001	UP-DUP-1	EPA 300.0 Rev 2.1 1993	644028		
92557089002	GWA-2	EPA 300.0 Rev 2.1 1993	644028		
92557089003	YGWA-14S	EPA 300.0 Rev 2.1 1993	644028		
92557089004	UP-DUP-2	EPA 300.0 Rev 2.1 1993	644028		
92557089005	YGWA-1D	EPA 300.0 Rev 2.1 1993	644028		
92557089006	YGWA-1I	EPA 300.0 Rev 2.1 1993	644028		
92557089007	YGWA-3D	EPA 300.0 Rev 2.1 1993	644028		
92557089008	YGWA-47	EPA 300.0 Rev 2.1 1993	644028		
92557089009	YGWA-30I	EPA 300.0 Rev 2.1 1993	644028		
92557720005	YGWA-39	EPA 300.0 Rev 2.1 1993	645268		
92558251001	YGWA-2I	EPA 300.0 Rev 2.1 1993	645268		
92558251002	YGWA-3I	EPA 300.0 Rev 2.1 1993	645268		
92558254001	UP-FB-2	EPA 300.0 Rev 2.1 1993	645268		
92558254002	YGWA-4I	EPA 300.0 Rev 2.1 1993	645268		
92558254003	YGWA-5I	EPA 300.0 Rev 2.1 1993	645268		
92558254004	UP-DUP-3	EPA 300.0 Rev 2.1 1993	645268		
92558254005	YGWA-5D	EPA 300.0 Rev 2.1 1993	645268		
92558254006	YGWA-17S	EPA 300.0 Rev 2.1 1993	645268		
92558254007	YGWA-18S	EPA 300.0 Rev 2.1 1993	645268		
92558254008	YGWA-18I	EPA 300.0 Rev 2.1 1993	645268		
92558254009	YGWA-20S	EPA 300.0 Rev 2.1 1993	645269		
92558254014	YGWA-21I	EPA 300.0 Rev 2.1 1993	645412		
92559527001	YGWA-40	EPA 300.0 Rev 2.1 1993	646087		

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	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# : 92557089

92557089

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 8/23/21 cm

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 083 ☑ Wet ☐ Blue ☐ None

Type of Ice:

Cooler Temp: 2.0 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 2.0

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

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?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☐ Yes	☑ No	☐ N/A	9. EB-1 + FB-1 Collection time not listed on COC but containers are on AP2 Work Order
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ 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.

Page : 1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	
Company: Georgia Power	Report To: SCS Contacts	Attention: Southern Co.	
Address: Atlanta, GA	Copy To: Arcadis Contacts	Company Name:	Regulatory Agency
		Address:	CCR
Email To: SCS and Arcadis Contacts	Purchase Order #: UPGRADIENT	Pace Quote:	
Phone: Fax:	Project Name: ~~Yates Gypsum Pond Groundwater~~	Pace Project Manager: Kevin Herring/Nicole D'Oleo	State / Location: GA
Requested Due Date: 10 Day	Project Number:	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 (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS 2450C	Anions Suite 300.0	App III Metals	App IV Metals	Mercury 7470A	Radium 226/228 9315/9320	App I and III Metals 6020B Ca, Ni, Ag, Tl, V, Zn	Residual Chlorine (Y/N)	
	Requested Analysis Filtered (Y/N)																	Y/N									
1	UP-DUP-1	WT	G	8/20	—														x	x	x	x	x	x	x		pH 5.86
2	GWA-2	WT	G	8/20	1200				5	✓		✓							x	x	x	x	x	x	x		pH 5.36
3		WT	G																								
4		WT	G																								
5		WT	G																								
6		WT	G																								
7		WT	G																								
8		WT	G																								
9																											
10																											
11																											
12																											

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)	[signature] /Arcadis	8/20	1730	[signature]	8/20/21	1745	5.0	Y	N	Y
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), Thallium (Tl)										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER: [signature]

DATE Signed: 8/20/21

Pace Analytical

CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Page : 2 Of 4

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	
Company: Arcadis (GA Power)	Report To: Becky Steever	Attention:	Regulatory Agency
Address: 2839 Paces Ferry Rd	Copy To:	Company Name:	
Suite 900 Atlanta, GA 30339		Address:	
Email:	Purchase Order #:	Pace Quote:	
Phone: Fax:	Project Name: ~~Yates 316-2~~ UG	Pace Project Manager: nicole.d'oleo@pacelabs.com	State / Location
Requested Due Date:	Project #:	Pace Profile #: 10840	GA

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)
1	~~AP-2-EB-1~~	WT		~~8/20~~	1070	35			5	✓		✓							X	X	X	X	
2	~~AP-2-EB-2~~	WT																	X	X	X	X	
3	AP-2-FB-1	WT		8/19	1530	35			5	✓		✓							X	X	X	X	
4	~~AP-2-FB-2~~	WT																	X	X	X	X	
5	YGWA-1I	WT																	X	X	X	X	
6	YGWA-1D	WT																	X	X	X	X	
7	~~YGWA-2I~~	WT																	X	X	X	X	
8	~~MGWA-3I~~	WT																	X	X	X	X	
9	YGWA-3D	WT																	X	X	X	X	
10	YGWA-14S	WT		8/19	~~1332~~	100			4	✓		✓							X	X	X	X	Ph: 7.32
11	UP-DUP-2	WT		8/19	—				4	✓		✓							X	X	X	X	—
12	~~YGWA-9I~~	WT																	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)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
		8/20	1730		8/21/12	1732	5.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER: [signature]

DATE Signed: 8/20/12

CHAIN-OF-CUSTODY / Analytical Request Document

Pace Analytical

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Page : 2 Of 4

Section A – Required Client Information:	Section B – Required Project Information:	Section C – Invoice Information:
Company: Arcadis (GA Power)	Report To: Becky Steever	Attention:
Address: 2839 Paces Ferry Rd	Copy To:	Company Name:
Suite 900, Atlanta, GA 30339		Address:
Email:	Purchase Order #:	Pace Quote:
Phone: Fax:	Project Name: ~~Yates~~ -2 UG	Pace Project Manager: nicole d'oleo@pacelabs.com
Requested Due Date:	Project #:	Pace Profile #: 10840

Regulatory Agency:

State / Location: GA

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID – One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Residual Chlorine (Y/N)
1	~~AP-FB-1~~	WT		8/20	1020	JS			5	✓		✓						X	X	X	X	—
2	~~AP-2-EB-2~~	WT																X	X	X	X	
3	~~AP-2-FB-1~~	WT		8/17	1530	JS			5	✓		✓						X	X	X	X	—
4	~~RB-2-CB-2~~	WT																X	X	X	X	
5	~~YGWA-1I~~	WT																X	X	X	X	
6	~~YGWA-1D~~	WT																X	X	X	X	
7	~~YGWA-2I~~	WT																X	X	X	X	
8	~~YGWA-3I~~	WT																X	X	X	X	
9	~~YGWA-3D~~	WT																X	X	X	X	
10	YGWA-14S	WT		8/19	~~[illegible]~~		1100		4	✓		✓						X	X	X	X	PH: 7.32
11	UP-DUP-2	WT		8/19	—				4	✓		✓						X	X	X	X	—
12	~~YGWA-~~ JS YGWA-30I	WT		8/19	1220				4	✓		✓						X	X	X	X	PH: 5.43 JS

Requested Analysis Filtered (Y/N)

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)
	[signature]	8/20	1730	[signature]	8/24/21	1732	5.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/20/2

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 3 of 4

Section A
Required Client Information:

Company:	Georgia Power
Address:	Atlanta, GA
Email To:	SCS and Arcadis Contacts
Phone:	Fax:
Requested Due Date:	10 Day

Section B
Required Project Information:

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

Section C
Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Kevin Herring/Nicole D'oleo
Pace Profile #:	10840

Regulatory Agency
CCR
State / Location
GA

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID: One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS: 2450C	Anions Suite 300.0	App III Metals	App IV Metals (No Tl) on Mercury	Radium 226/228 9315/9320	Residual Chlorine (Y/N)	pH
1	~~AP-2-EB-1~~	WT	G																x	x	x	x	x		pH
2	~~AP-2-EB-2~~	WT	G																x	x	x	x	x		pH
3	~~AP-2-FB-1~~	WT	G																x	x	x	x	x		pH
4	~~AP-2-FB-2~~	WT	G																x	x	x	x	x		pH
5	~~YGWC-28S~~ YGWA-1D	WT	G	8/19	1110														x	x	x	x	x		pH 6.32
6	~~YGWC-28I~~ YGWA-1I	WT	G	8/19	1249														x	x	x	x	x		pH 6.38
7	~~AP-2-DUP-1~~ YGWA-3D	WT	G	8/19	1445														x	1x	x	x	x		pH 5.34
8	~~[illegible]~~	WT	G																x	x	x	x	x		pH
9	~~[illegible]~~	WT	G																x	x	x	x	x		pH
10	~~YGWC-28S~~	WT	G	~~8/20~~	~~1124~~														x	x	x	x	x		pH
11	~~YGWC-28I~~	WT	G																x	x	x	x	x		pH
12	~~YGWC-29I~~	WT	G	~~8/20~~	~~0938~~														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)
	[signature]	8/20	1730	[signature]	8/20/21	1740	5.0	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chest

SIGNATURE of SAMPLER: [signature]

DATE Signed: 8/20/21

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:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	Georgia Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	SCS Contacts	Purchase Order #:		Pace Quote:	
Phone:	Fax:	Project Name:	[redacted]-1 (upgradient)	Pace Project Manager:	Kevin Herring/Nicole D'Oleo
Requested Due Date:	10 Day	Project Number:		Pace Profile #:	10840

Regulatory Agency
CCR
State / Location
GA

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS 2450C	Anions Suite 300.0	App III Metals (B & Ca)	App IV Metals	Mercury 7470A	Radium 228/226 9015/9320	Residual Chlorine (Y/N)	
1	YGWA-47	WT	G	08/19	1005	08/19	1026			X		X							X	X	X	X	X	X		pH ~~4.50~~ 5.50
2																										
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)	(Arcadis)	8/20	1730				5.0	Y	N	Y
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), Thallium (Tl)										

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)

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	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#: 92557720

PM: NMG Due Date: 09/09/21

CLIENT: GA-GA Power

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other: ☑ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 8/27/21 CAH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083 ☑ Wet ☐ Blue ☐ None

Type of Ice:

Cooler Temp: 3.0 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 3.0

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

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

Page : Of

Section A
Required Client Information:

Company:	Georgia Power
Address:	Atlanta, GA
Email To:	SCS and Arcadis Contacts
Phone:	Fax:
Requested Due Date:	10 Day

Section B
Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Yates AMA-R6 (downgradient)
Project Number:	

Section C
Invoice Information:

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

Regulatory Agency
CCR
State / Location
GA

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: TDS 2450C	Anions Suite 300.0	App III Metals	App IV Metals (No Tl)	Radium 228/226: 9315/9320	Alkalinity (2320B)	Cations (Na, K, Mg, Ca)	Mercury (7470A)	Residual Chlorine (Y/N)
1	~~YGWA-24~~	WT	G															x	x	x	x	x			x	pH:
2	YGWA-39	WT	G	8-26-21	1235					2		3						x	x	x	x	x			x	pH 6.91
3	~~YGWA-40~~	WT	G															x	x	x	x	x			x	pH:
4		WT	G																							
5		WT	G																							
6		WT	G																							
7		WT	G																							
8		WT	G																							
9		WT	G																							
10		WT	G																							
11		WT	G																							
12		WT	G																							

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Ssulfate)	Kate Pipkiewicz Arcadis	8-26-21	1410		8/26	1410	
App III Metals: Boron 6020B, Ca 6010D		8/27	1640	Charlie Hunter	8/27/21	1640	
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)							

SAMPLER NAME AND SIGNATURE							
PRINT Name of SAMPLER:	Kate Pipkiewicz						
SIGNATURE of SAMPLER:		DATE Signed:	8-26-21	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	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# : 92558251

92558251

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ Other: ☐ USPS ☑ Client

Custody Seal Present? ☐ Yes ☑ ~~No~~ Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 8/27/21 CAM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 083

☑ Wet ☐ Blue ☐ None

Type of Ice:

Cooler Temp: 3.0 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 3.0

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

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

Page : 1 Of

Section A — Required Client Information:

Company:	Georgia Power
Address:	Atlanta, GA
Email To:	SCS and Arcadis Contacts
Phone:	Fax:
Requested Due Date:	10 Day

Section B — Required Project Information:

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

Section C — Invoice Information:

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

Regulatory Agency	
	CCR
State / Location	
	GA

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS: 2450C	Anions Suite 300.0	App III Metals	App IV Metals (No Tl)	Radium 226/228: 9315/9320	Residual Chlorine (Y/N)	
	YGWA-2I	WT	G	8/27/24	1133				4	X		X							X	X	X	X	X		pH 7.14
	YGWA-3I	WT	G	8/27/24	0955				4	X		X							X	X	X	X	X		pH 7.39

		DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/27/24	1440		8/27	1440	
App III Metals: Boron 6020B, Ca 6010D		8/27	1640		8/27	1640	
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)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chest

SIGNATURE of SAMPLER:

DATE Signed:

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

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	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# : 92558254

92558254

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other: ☑ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 8/27/21 CAH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 083 ☑ Wet ☐ Blue ☐ None

Type of Ice:

Cooler Temp: 3.0 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 3.0

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

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?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☐ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☐ Yes	☑ No	☐ N/A	9. AMA-EB-1 labeled UP-EB-1 but time match 8/26/21 1600
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ 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:

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf.

Page : 1 Of 1

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: Arcadis (GA Power)	Report To: Becky Steever	Attention:
Address: 2839 Paces Ferry Rd	Copy To:	Company Name:
Suite 900, Atlanta, GA 30339		Address:
Email:	Purchase Order #:	Pace Quote:
Phone: Fax:	Project Name: Yates AMA	Pace Project Manager: nicole.d'oleo@pacelabs.com
Requested Due Date:	Project #:	Pace Profile #: 10840

Regulatory Agency

State / Location: GA

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analysis Test: TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Alkalinity	Residual Chlorine (Y/N)	
1	AMA-EB-1	WT																	X	X	X	X			
2	AMA EB-2	WT																	X	X	X	X			
3	AMA-FB-1	WT																	X	X	X	X			
4	AMA-FB-2	WT																	X	X	X	X			
5	UP-EB-1	WT																	X	X	X	X			
6	UP-FB-1	WT		8/26/21	1710				5	X		X							X	X	X	X			
7	~~UP-EB-2~~	WT																	X	X	X	X			
8	UP-FB-2	WT																	X	X	X	X			
9	YGWA-4I	WT		8/26/21	1124				5	X		X							X	X	X	X			5.82
10	YGWA-5I	WT		8/26/21	1628				5	X		X							X	X	X	X			5.51 SU
11	UP-DUP-3	WT		8/26/21	-				5	X		X							X	X	X	X			-
12	YGWA-5D	WT		8/26/21	1355				5	X		X							X	X	X	X			7.16 SU

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[signature]	8/27/21	1640	[signature]	8/27/21	1640	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chest

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/27/21

TEMP in C	Received on Ice (Y/N)	Custody 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.

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Page : 2 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Arcadis (GA Power)	Report To:	Becky Steever	Attention:	
Address:	2839 Paces Ferry Rd	Copy To:		Company Name:	
Suite 900, Atlanta, GA 30339				Address:	
Email:		Purchase Order #:		Pace Quote:	
Phone:	Fax:	Project Name:	Yates AMA	Pace Project Manager:	nicole.d'olac@pacelabs.com,
Requested Due Date:		Project #:		Pace Profile #:	10840

Regulatory Agency

State / Location: GA

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test	TDS	Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Alkalinity	Residual Chlorine (Y/N)	
13	YGWA-17S	WT		8/27	1045				5	✓		✓								x	x	x	x			Ph: 5.27
14	~~YGWA-18S~~ JS YGWA-18S	WT		8/26	1535				5	✓		✓								x	x	x	x			Ph: 4.40
15	YGWA-18I	WT		8/27	0935				5	✓		✓								x	x	x	x			Ph: 5.40
16	YGWA-20S	WT		8/27	1310				5	✓		✓								x	x	x	x			Ph: 5.37
17	YGWA-21I	WT																		x	x	x	x			
18	YGWC-23S	WT																		x	x	x	x	x		
19	YGWC-24SA	WT																		x	x	x	x			
20	AMA-DUP-1	WT																		x	x	x	x			
21	YGWC-36A	WT																		x	x	x	x	x		
22	YGWC-49	WT																		x	x	x	x			
23	AMA-EB-1			8/26	1600				5											x	x	x	x			
24	AMA-EB-2			8/27	1340				5											x	x	x	x			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Arcadis	8/27			8/27/24	1640	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/27/24

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

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	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# : 92558254

PM: NMG **Due Date: 09/13/21**
CLIENT: GA-GA Power

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other: ☑ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/2/21 KeW

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: 3.9 **Correction Factor:** Add/Subtract (°C) +0.1

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

Cooler Temp Corrected (°C): 4.0

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

Page : Of

Section A — Required Client Information:

Company:	Georgia Power
Address:	Atlanta, GA
Email To:	SCS Contacts
Phone:	Fax:
Requested Due Date:	10 Day

Section B — Required Project Information:

Report To:	~~SCS Contacts~~ Becky Steed
Copy To:	~~Arcadis Contacts~~
Purchase Order #:	
Project Name:	Yates AMA-[redacted]
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency	
	CCR
State / Location	
	GA

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Analyses Test: TDS 2450C	Anions Suite 300.0	App III Metals	App. IV Metals (No Ti)	Radium 226/228: 9315/9320	Alkalinity	Cations (Na, K, Mg, Ca)	Residual Chlorine (Y/N)
1	~~UP-EB-1~~ JJ	WT	G																x	x	x	x	x			--
2	~~UP-FB-1~~ JS	WT	G																x	x	x	x	x			--
3	~~UP-EB-2~~ JS	WT	G																x	x	x	x	x			--
4	~~UP-FB-2~~ JS	WT	G																x	x	x	x	x			--
5	~~YGWA-4I~~ JS	WT	G																x	x	x	x	x	x		pH:
6	~~YGWA-5I~~ JS	WT	G																x	x	x	x	x			pH:
7	~~UP-DUP-3~~ JS	WT	G		--														x	x	x	x	x			pH:
8	~~YGWA-6D~~ JS	WT	G																x	x	x	x	x	x		pH:
9	~~YGWA-17S~~ JS	WT	G																x	x	x	x	x			pH:
10	~~YGWA-18S~~ JS AMA-DUP-1	WT	G	9/1	--				5	✓		✓							x	x	x	x	x	6020B		pH:
11	~~YGWA-18I~~ JS YGWC-245A	WT	G	9/1	1025				5	✓		✓							x	x	x	x	x	6020B		pH: 5.22
12	~~YGWA-20S~~ YGWA-21I	WT	G	9/1	1440				5	✓		✓							x	x	x	x	x			pH: 6.65

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl,F, sulfate)	/Arcadis	9/2/21	1530	/Arcadis	9/2/21	1530	
App III Metals: Boron 6020B Ca 6010D		9/2/21	1702	/Pace	9/2/21	1702	
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)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER: [signature] DATE Signed: 9/2/21

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

Pace Analytical	Document Name: Sample Condition Upon Receipt(SCUR)	Document Revised: October 28, 2020 Page 1 of 2
	Document No.: F-CAR-CS-033-Rev.07	Issuing Authority: Pace Carolinas Quality Office

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: ARCADIS - GA Power **Project:**

WO# : 92559527

92559527

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 9/3/21 CM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 230 ☑ Wet ☐ Blue ☐ None

Type of Ice:

Cooler Temp: 4.9 **Correction Factor:** Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 5.0

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

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?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix:	(pH) 9/3/21 DW W			
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ 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:** _____

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CHAIN-OF-CUSTODY / Analytical Request Document

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Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at https://info.pacelabs.com/hubfs/pas-standard-terms.pdf

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Arcadis (GA Power)	Report To:	Becky Steever	Attention:	
Address:	2839 Paces Ferry Rd	Copy To:		Company Name:	
Suite 900, Atlanta, GA 30339				Address:	
Email		Purchase Order #:		Pace Quote:	
Phone:	Fax:	Project Name:	Yates R6	Pace Project Manager:	nicole.d'oleo@pacelabs.com
Requested Due Date:		Project #:		Pace Profile #:	10840

Regulatory Agency	
State / Location	GA

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

ITEM #	SAMPLE ID	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	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	TDS	Cl, F, SO4	App III/IV Metals	III/IV + Cations	RAD 9315/9320	Alkalinity	Residual Chlorine (Y/N)	
1	~~YGWA-39~~	WT																	x	x		x	x	x		
2	YGWA-40	WT		9/3/21	1020														x	x		x	x	x		425
3	~~YGWC-38~~	WT																	x	x		x	x	x		
4	~~YGWC-41~~	WT																	x	x		x	x	x		
5	~~AMA-DUP-2~~	WT																	x	x			x			
6	~~YGWC-42~~	WT																	x	x		x	x	x		
7	~~YGWC-43~~	WT																	x	x		x	x	x		
8	~~AP-1-EB-1~~	WT																			x					
9	~~AP-1-FB-1~~	WT																			x					
10	~~YGWA-47~~	WT																			x					
11	~~YGWC-52~~	WT																			x					
12	~~YGWC-44~~	WT																			x					

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	[signature] / A&S	9/3/21	1730	[signature] / PACE	9/3/21	1735	4.9	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chest

SIGNATURE of SAMPLER: [signature] DATE Signed: 9/3/21

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

Appendix C

Statistical Analysis

Appendix III Statistically Significant Increase Summary (March 2021)

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-28I, YGWC-28S
Sulfate	YGWC-27S

Appendix III Statistically Significant Increase Summary (August 2021)

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-28I, YGWC-28S
Total Dissolved Solids (TDS)	YGWC-26I

March 2021

GROUNDWATER STATS CONSULTING

August 24, 2021

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)
March 2021 Statistical Analysis

Dear Ms. Coker,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the March 2021 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, Groundwater Statistician and Founder of Groundwater Stats Consulting.

The CCR program consists of the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **Appendix III** (Detection Monitoring) **-** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) **–** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient well/constituent pairs with 100% non-detects follows this letter. Additionally, when Appendix IV constituents are not detected during a scheduled Scan event, no statistical analyses are required during the semi-annual sample event, and sampling of those constituents is not required during the subsequent events. During the annual Scan event conducted in February 2021, mercury and thallium were not detected; therefore, they were not required to be sampled during the subsequent events. In some cases, upgradient wells at a given unit were not sampled for all constituents if no detections were present at downgradient wells for that particular unit. The following constituents were not detected during their respective Scan events at other Plant Yates units; therefore, upgradient wells at the units listed below were not sampled for these constituents:

- Yates Gypsum Landfill: molybdenum
- Yates AP-1: cadmium, mercury, selenium, and thallium
- Yates AMA-R6: thallium

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 April 2019 evaluation and state and federal regulatory requirements described below, the following methods were selected for Appendix III and IV constituents:

- Appendix III: Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Appendix IV: Confidence intervals 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 and Trend Testing

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).

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.

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 – March 2021

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. A single high pH value in upgradient well YGWA-47 from AP-1 was flagged as an outlier during earlier screenings since it was higher than the other measurements within this well. The March 2021 value of 6.51 s.u. for pH in downgradient well YGWC-28I was provided by Arcadis as a correction to the original lab report value of 66.51 s.u. A drastic increase in concentrations was also identified for sulfate during the March 2021 sampling event with a reported observation of 451 mg/L in downgradient well YGWC-27S; however, this value was not flagged as outlier and will be reviewed. If this value is determined to be anomalous, it will be flagged as an outlier for future analyses. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. No new outliers were flagged for Appendix III parameters, and a summary of flagged outliers follows this report (Figure C).

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical pooled upgradient well data through March 2021 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to determine whether there are statistically significant increases (SSIs). Note that reporting limit changes during this analysis occurred for boron (from <0.1 mg/L to <0.04 mg/L), but there were no changes in statistical limits.

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 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-28I, and YGWC-28S
- Sulfate: YGWC-27S

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 (all upgradient)
- Sulfate: YGWA-1D, YGWA-3D, YGWA-5I, and GWA-2 (all upgradient)

Decreasing:

- Boron: YGWA-21I (upgradient)
- Chloride: YGWA-3D (upgradient), YGWA-3I (upgradient), YGWA-5D (upgradient), YGWA-47 (upgradient), YGWC-26S, and YGWC-28I
- Sulfate: YGWA-5D, YGWA-39, YGWA-40, YGWA-47 (all 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 – March 2021

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 0.21 mg/L from March 2021 for cobalt at upgradient well GWA-2, along with high values 0.20 mg/L and 0.16 mg/L from August and September 2020, were two orders of magnitude higher than the other values for that well. The August and September 2020 values were flagged during the previous analysis, and the March 2021 value was flagged as an outlier during this analysis in order to maintain limits that were conservative from a regulatory perspective. However, since three observations were reported at this level, further study may indicate that the values should not be flagged for future analyses. A summary of flagged outliers follows this report (Figure C).

First, interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data 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. The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a).

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

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, CCR-rule specified levels have been specified for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

On July 30, 2018, USEPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Georgia EPD has not incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a); therefore, for sites regulated under Georgia EPD Rules, the State GWPS is:

- The MCL or
- The background concentration when an MCL is not established or when the background concentration is higher than the MCL.

Following the above Federal CCR and Georgia EPD Rule requirements, Federal and State GWPS were established for Appendix IV constituents for the March 2021 sample event (Figure G). To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in each downgradient well using all historical data through March 2021 according to both Federal and State rules (Figures H and I, respectively). As mentioned above, confidence intervals were not required for mercury and thallium or downgradient well/constituent pairs with 100% non-detects.

The Sanitas software was used to calculate the tolerance limits and the confidence intervals. Those confidence intervals were compared to the GWPS established using the CCR Rules for the federal requirements and the Georgia EPD Rules 391-3-4-.10(6)(a) for the State requirements. 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. Note that reporting limits decreased for the following constituents during this analysis:

- Beryllium from <0.003 mg/L to <0.0005 mg/L
- Cadmium from <0.0025 mg/L to <0.0005 mg/L
- Chromium from <0.01 mg/L to <0.005 mg/L
- Lead from <0.005 mg/L to <0.001 mg/L
- Mercury from <0.0005 mg/L to <0.0002 mg/L
- Selenium from <0.01 mg/L to <0.005 mg/L

As a result, background limits were lower for these constituents as compared to the previous analysis. However, in all cases for Federal and State confidence intervals, except for lead, which uses the background limit as the GWPS for State confidence intervals, the established MCL and/or CCR Rule Specified levels were higher than the background limits. Therefore, the GWPS were not affected. Summaries of confidence intervals and complete graphical results follow this letter. For both federal and state confidence intervals, no exceedances were noted.

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 Wells

Analysis Run 5/7/2021 12:12 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Antimony (mg/L)
YGWC-28I, YGWC-28S

Arsenic (mg/L)
YGWC-26I, YGWC-26S, YGWC-27S, YGWC-28I, YGWC-29I

Beryllium (mg/L)
YGWC-26I, YGWC-28I, YGWC-28S, YGWC-29I

Cadmium (mg/L)
YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S

Chromium (mg/L)
YGWC-27I

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 5/10/2021, 3:51 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**	**3/3/2021**	**0.69**	**Yes**	**293**	**n/a**	**n/a**	**45.73**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-26S**	**0.16**	**n/a**	**3/2/2021**	**0.57**	**Yes**	**293**	**n/a**	**n/a**	**45.73**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-27I**	**0.16**	**n/a**	**3/3/2021**	**2**	**Yes**	**293**	**n/a**	**n/a**	**45.73**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-27S**	**0.16**	**n/a**	**3/3/2021**	**1.2**	**Yes**	**293**	**n/a**	**n/a**	**45.73**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-28I**	**0.16**	**n/a**	**3/3/2021**	**1.8**	**Yes**	**293**	**n/a**	**n/a**	**45.73**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-28S**	**0.16**	**n/a**	**3/3/2021**	**2.3**	**Yes**	**293**	**n/a**	**n/a**	**45.73**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-29I**	**0.16**	**n/a**	**3/3/2021**	**0.62**	**Yes**	**293**	**n/a**	**n/a**	**45.73**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-26I**	**7.9**	**n/a**	**3/3/2021**	**16.6**	**Yes**	**293**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-26S**	**7.9**	**n/a**	**3/2/2021**	**13.2**	**Yes**	**293**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-27I**	**7.9**	**n/a**	**3/3/2021**	**13**	**Yes**	**293**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-28I**	**7.9**	**n/a**	**3/3/2021**	**14.6**	**Yes**	**293**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-28S**	**7.9**	**n/a**	**3/3/2021**	**18**	**Yes**	**293**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-27S**	**160**	**n/a**	**3/3/2021**	**451**	**Yes**	**293**	**n/a**	**n/a**	**6.143**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/10/2021, 3:51 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**	**3/3/2021**	**0.69**	**Yes**	**293**	**n/a**	**n/a**	**45.73**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-26S**	**0.16**	**n/a**	**3/2/2021**	**0.57**	**Yes**	**293**	**n/a**	**n/a**	**45.73**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-27I**	**0.16**	**n/a**	**3/3/2021**	**2**	**Yes**	**293**	**n/a**	**n/a**	**45.73**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-27S**	**0.16**	**n/a**	**3/3/2021**	**1.2**	**Yes**	**293**	**n/a**	**n/a**	**45.73**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-28I**	**0.16**	**n/a**	**3/3/2021**	**1.8**	**Yes**	**293**	**n/a**	**n/a**	**45.73**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-28S**	**0.16**	**n/a**	**3/3/2021**	**2.3**	**Yes**	**293**	**n/a**	**n/a**	**45.73**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-29I**	**0.16**	**n/a**	**3/3/2021**	**0.62**	**Yes**	**293**	**n/a**	**n/a**	**45.73**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-26I	37	n/a	3/3/2021	16.1	No	293	n/a	n/a	1.024	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26S	37	n/a	3/2/2021	12.9	No	293	n/a	n/a	1.024	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27I	37	n/a	3/3/2021	25.7	No	293	n/a	n/a	1.024	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	37	n/a	3/3/2021	30.2	No	293	n/a	n/a	1.024	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	37	n/a	3/3/2021	30.9	No	293	n/a	n/a	1.024	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28S	37	n/a	3/3/2021	28.4	No	293	n/a	n/a	1.024	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-29I	37	n/a	3/3/2021	9.5	No	293	n/a	n/a	1.024	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	**YGWC-26I**	**7.9**	**n/a**	**3/3/2021**	**16.6**	**Yes**	**293**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-26S**	**7.9**	**n/a**	**3/2/2021**	**13.2**	**Yes**	**293**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-27I**	**7.9**	**n/a**	**3/3/2021**	**13**	**Yes**	**293**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	YGWC-27S	7.9	n/a	3/3/2021	4	No	293	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	**YGWC-28I**	**7.9**	**n/a**	**3/3/2021**	**14.6**	**Yes**	**293**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-28S**	**7.9**	**n/a**	**3/3/2021**	**18**	**Yes**	**293**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	YGWC-29I	7.9	n/a	3/3/2021	6.7	No	293	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	3/3/2021	0.05J	No	362	n/a	n/a	68.51	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-26S	0.68	n/a	3/2/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27I	0.68	n/a	3/3/2021	0.058J	No	362	n/a	n/a	68.51	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27S	0.68	n/a	3/3/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28I	0.68	n/a	3/3/2021	0.072J	No	362	n/a	n/a	68.51	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28S	0.68	n/a	3/3/2021	0.13	No	362	n/a	n/a	68.51	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-29I	0.68	n/a	3/3/2021	0.056J	No	362	n/a	n/a	68.51	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-26I	8.39	4.86	3/3/2021	5.93	No	373	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-26S	8.39	4.86	3/2/2021	5.38	No	373	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27I	8.39	4.86	3/3/2021	6.43	No	373	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27S	8.39	4.86	3/3/2021	6.35	No	373	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28I	8.39	4.86	3/3/2021	6.51	No	373	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28S	8.39	4.86	3/3/2021	6.61	No	373	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-29I	8.39	4.86	3/3/2021	6.27	No	373	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	3/3/2021	89.3	No	293	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26S	160	n/a	3/2/2021	92.7	No	293	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27I	160	n/a	3/3/2021	2.6	No	293	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-27S**	**160**	**n/a**	**3/3/2021**	**451**	**Yes**	**293**	**n/a**	**n/a**	**6.143**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	YGWC-28I	160	n/a	3/3/2021	8.6	No	293	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28S	160	n/a	3/3/2021	4.9	No	293	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-29I	160	n/a	3/3/2021	26.6	No	293	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26I	218.8	n/a	3/3/2021	205	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26S	218.8	n/a	3/2/2021	154	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27I	218.8	n/a	3/3/2021	173	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27S	218.8	n/a	3/3/2021	178	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28I	218.8	n/a	3/3/2021	184	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28S	218.8	n/a	3/3/2021	217	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-29I	218.8	n/a	3/3/2021	110	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.001075	Param Inter 1 of 2

Appendix III Trend Tests - Prediction Limits Exceedances - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 2:57 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**YGWA-21I (bg)**	**-0.006801**	**-60**	**-58**	**Yes**	**16**	**56.25**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.06529**	**-59**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3I (bg)**	**-0.05699**	**-66**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-26S**	**-0.8658**	**-70**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-28I**	**-0.3155**	**-68**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.5003**	**-45**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-17S (bg)**	**0.3002**	**76**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-20S (bg)**	**0.189**	**71**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.9116**	**-83**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-1D (bg)**	**1.091**	**76**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3D (bg)**	**0.4938**	**60**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-47 (bg)**	**-25.19**	**-71**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-39 (bg)**	**-3.687**	**-48**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-40 (bg)**	**-12.05**	**-54**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-5D (bg)**	**-3.891**	**-96**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-5I (bg)**	**0.09335**	**70**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWA-2 (bg)**	**25.64**	**66**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - Prediction Limits Exceedances - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 2:57 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-14S (bg)	-0.00131	-37	-58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0	-2	-58	No	16	25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-23	-58	No	16	68.75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	-18	-58	No	16	75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-28	-58	No	16	81.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	-8	-58	No	16	56.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-23	-58	No	16	87.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-26I	-0.03933	-44	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-26S	0.004704	16	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27I	0.03779	17	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27S	0	-4	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28I	0.006966	2	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28S	0.04804	17	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-29I	-0.02029	-52	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.001291	-39	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	-0.0002497	-11	-58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-34	-58	No	16	75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	-0.0003285	-14	-58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-15	-58	No	16	87.5	n/a	n/a	0.01	NP
Boron (mg/L)	**YGWA-21I (bg)**	**-0.006801**	**-60**	**-58**	**Yes**	**16**	**56.25**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-39 (bg)	0.002402	14	43	No	13	7.692	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.02279	-41	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-4I (bg)	0	-17	-58	No	16	62.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0001974	12	58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	-0.0019	-46	-58	No	16	56.25	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	5	48	No	14	57.14	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1626	30	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	-0.02735	-40	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	-0.02869	-33	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.05296	-45	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	0	-21	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.06529**	**-59**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3I (bg)**	**-0.05699**	**-66**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWC-26I	-0.2376	-33	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWC-26S**	**-0.8658**	**-70**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWC-27I	0	-5	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWC-28I**	**-0.3155**	**-68**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWC-28S	-0.1389	-15	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.5003**	**-45**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-17S (bg)**	**0.3002**	**76**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-18I (bg)	0.05099	35	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18S (bg)	0.2082	50	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-20S (bg)**	**0.189**	**71**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-21I (bg)	-0.1117	-28	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.2329	13	43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.1751	26	43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-4I (bg)	0.1099	36	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.9116**	**-83**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-5I (bg)	0	-1	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.1272	29	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-14S (bg)	0.09469	17	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-1D (bg)**	**1.091**	**76**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-1I (bg)	-0.2947	-23	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	0.1728	11	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.08892	-28	-58	No	16	12.5	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limits Exceedances - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 2:57 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	**YGWA-3D (bg)**	**0.4938**	**60**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-3I (bg)	0.6094	45	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-27S	-1.986	-54	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-47 (bg)**	**-25.19**	**-71**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-17S (bg)	0.1322	51	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.2007	-54	-58	No	16	25	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18S (bg)	-0.1939	-48	-58	No	16	12.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	24	58	No	16	62.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.2852	-25	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-39 (bg)**	**-3.687**	**-48**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-40 (bg)**	**-12.05**	**-54**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-4I (bg)	0.1751	39	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-5D (bg)**	**-3.891**	**-96**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-5I (bg)**	**0.09335**	**70**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWA-2 (bg)**	**25.64**	**66**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 12:01 PM

Constituent	Upper Lim.	Lower Lim.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0047	n/a	n/a	315	n/a	n/a	86.03	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	n/a	363	n/a	n/a	77.96	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.071	n/a	n/a	363	n/a	n/a	3.03	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0005	n/a	n/a	347	n/a	n/a	81.27	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.0005	n/a	n/a	347	n/a	n/a	95.68	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	n/a	n/a	315	n/a	n/a	77.46	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	n/a	n/a	360	n/a	n/a	69.72	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	6.92	n/a	n/a	342	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	0.68	n/a	n/a	362	n/a	n/a	68.51	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	0.0013	n/a	n/a	317	n/a	n/a	82.65	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	342	n/a	n/a	27.49	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.0002	n/a	n/a	278	n/a	n/a	93.17	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.014	n/a	n/a	306	n/a	n/a	59.8	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	345	n/a	n/a	91.59	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	298	n/a	n/a	96.64	n/a	n/a	NaN	NP Inter(NDs)

YATES ASH POND 2 GWPS					
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**Federal GWPS**	**State GWPS**
Antimony, Total (mg/L)	0.006		0.0047	0.006	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01	0.01
Barium, Total (mg/L)	2		0.071	2	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4	4
Lead, Total (mg/L)		0.015	0.0013	0.015	0.0013
Lithium, Total (mg/L)		0.04	0.03	0.04	0.03
Mercury, Total (mg/L)	0.002		0.0002	0.002	0.002
Molybdenum, Total (mg/L)		0.1	0.014	0.1	0.014
Selenium, Total (mg/L)	0.05		0.005	0.05	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002	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*

Federal Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 12:14 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	15	0.002674	0.0008604	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No	15	0.00282	0.0004754	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.00033	0.006	No	15	0.002822	0.0006894	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No	15	0.00282	0.0006971	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29I	0.003	0.0013	0.006	No	15	0.002887	0.0004389	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.0006	0.01	No	19	0.003181	0.002196	57.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.00069	0.01	No	19	0.003185	0.002188	57.89	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06639	0.06267	2	No	19	0.06453	0.003182	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02896	0.02661	2	No	19	0.02778	0.002008	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.0728	0.063	2	No	19	0.06902	0.007204	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-27S	0.1047	0.09313	2	No	19	0.09891	0.009866	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28I	0.09012	0.08399	2	No	19	0.08706	0.005237	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28S	0.221	0.196	2	No	19	0.2026	0.03864	0	None	x^4	0.01	Param.
Barium (mg/L)	YGWC-29I	0.0781	0.057	2	No	19	0.07414	0.03394	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-26S	0.0002	0.00011	0.004	No	17	0.0001932	0.0001222	11.76	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.00023	0.00014	0.004	No	17	0.0002371	0.0001321	17.65	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27S	0.0005	0.000066	0.004	No	17	0.0004745	0.0001053	94.12	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.0005	0.0001	0.005	No	17	0.0002418	0.0001791	11.76	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28S	0.0005	0.00048	0.005	No	17	0.0004988	0.000004851	94.12	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29I	0.0002194	0.0001256	0.005	No	17	0.0002553	0.0001322	17.65	Kaplan-Meier	x^(1/3)	0.01	Param.
Chromium (mg/L)	YGWC-26I	0.005	0.00065	0.1	No	17	0.003202	0.002205	52.94	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002486	0.001092	0.1	No	17	0.002517	0.00169	17.65	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	YGWC-27S	0.015	0.0027	0.1	No	17	0.004668	0.00319	70.59	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.0005	0.1	No	17	0.004201	0.00178	82.35	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.0006	0.1	No	17	0.004211	0.001757	82.35	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.005	0.0005	0.1	No	17	0.004735	0.001091	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002781	0.001865	0.035	No	19	0.002363	0.0008532	5.263	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.01683	0.003275	0.035	No	19	0.01862	0.02682	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.0026	0.0022	0.035	No	19	0.002474	0.0006497	5.263	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	19	0.004759	0.001051	94.74	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0012	0.00092	0.035	No	19	0.001424	0.001268	10.53	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.005	0.0007	0.035	No	19	0.003845	0.001988	73.68	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.062	0.4927	6.92	No	18	0.8202	0.5153	5.556	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.8845	0.5432	6.92	No	19	0.7138	0.2914	5.263	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	4.054	2.769	6.92	No	19	3.412	1.098	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.078	0.6625	6.92	No	19	0.8703	0.3549	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.948	0.261	6.92	No	19	0.6337	0.3534	5.263	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9055	0.4908	6.92	No	19	0.6981	0.3541	5.263	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.148	0.7362	6.92	No	19	0.9422	0.3517	5.263	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.06	4	No	20	0.0825	0.02103	40	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.044	4	No	20	0.1332	0.09928	70	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.14	0.07	4	No	20	0.0921	0.02603	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27S	0.2052	0.1014	4	No	20	0.1634	0.1047	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.14	0.078	4	No	20	0.1269	0.08215	25	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2651	0.1498	4	No	20	0.2075	0.1015	10	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.09525	0.05897	4	No	20	0.0882	0.03115	35	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	YGWC-26I	0.001	0.000059	0.015	No	15	0.000874	0.0003325	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.001	0.000064	0.015	No	15	0.00069	0.0004539	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.001	0.0002	0.015	No	15	0.0007625	0.0003766	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.001	0.000063	0.015	No	15	0.0006876	0.0004573	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29I	0.001	0.00016	0.015	No	15	0.0008214	0.0003702	80	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007101	0.006541	0.04	No	19	0.006821	0.0004779	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.01037	0.008039	0.04	No	19	0.009205	0.001991	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.00081	0.04	No	19	0.02846	0.006697	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.007044	0.00663	0.04	No	19	0.006837	0.0003531	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.04	No	19	0.0287	0.005667	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29I	0.0074	0.0052	0.04	No	19	0.007226	0.005581	5.263	None	No	0.01	NP (normality)

Federal Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 12:14 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	YGWC-27I	0.01	0.0014	0.1	No	19	0.005942	0.004398	52.63	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.1	No	19	0.005411	0.004474	47.37	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00083	0.1	No	19	0.008046	0.003887	78.95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29I	0.01	0.00083	0.1	No	19	0.009517	0.002104	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0031	0.0018	0.05	No	17	0.002476	0.001067	11.76	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	No	17	0.004076	0.001731	76.47	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	No	17	0.004776	0.0009216	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	No	17	0.004765	0.0009701	94.12	None	No	0.01	NP (NDs)

State Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 12:16 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	15	0.002674	0.0008604	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No	15	0.00282	0.0004754	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.00033	0.006	No	15	0.002822	0.0006894	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No	15	0.00282	0.0006971	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29I	0.003	0.0013	0.006	No	15	0.002887	0.0004389	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.0006	0.01	No	19	0.003181	0.002196	57.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.00069	0.01	No	19	0.003185	0.002188	57.89	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06639	0.06267	2	No	19	0.06453	0.003182	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02896	0.02661	2	No	19	0.02778	0.002008	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.0728	0.063	2	No	19	0.06902	0.007204	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-27S	0.1047	0.09313	2	No	19	0.09891	0.009866	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28I	0.09012	0.08399	2	No	19	0.08706	0.005237	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28S	0.221	0.196	2	No	19	0.2026	0.03864	0	None	x^4	0.01	Param.
Barium (mg/L)	YGWC-29I	0.0781	0.057	2	No	19	0.07414	0.03394	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-26S	0.0002	0.00011	0.004	No	17	0.0001932	0.0001222	11.76	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.00023	0.00014	0.004	No	17	0.0002371	0.0001321	17.65	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27S	0.0005	0.000066	0.004	No	17	0.0004745	0.0001053	94.12	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.0005	0.0001	0.005	No	17	0.0002418	0.0001791	11.76	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28S	0.0005	0.00048	0.005	No	17	0.0004988	0.000004851	94.12	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29I	0.0002194	0.0001256	0.005	No	17	0.0002553	0.0001322	17.65	Kaplan-Meier	x^(1/3)	0.01	Param.
Chromium (mg/L)	YGWC-26I	0.005	0.00065	0.1	No	17	0.003202	0.002205	52.94	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002486	0.001092	0.1	No	17	0.002517	0.00169	17.65	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	YGWC-27S	0.015	0.0027	0.1	No	17	0.004668	0.00319	70.59	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.0005	0.1	No	17	0.004201	0.00178	82.35	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.0006	0.1	No	17	0.004211	0.001757	82.35	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.005	0.0005	0.1	No	17	0.004735	0.001091	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002781	0.001865	0.035	No	19	0.002363	0.0008532	5.263	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.01683	0.003275	0.035	No	19	0.01862	0.02682	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.0026	0.0022	0.035	No	19	0.002474	0.0006497	5.263	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	19	0.004759	0.001051	94.74	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0012	0.00092	0.035	No	19	0.001424	0.001268	10.53	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.005	0.0007	0.035	No	19	0.003845	0.001988	73.68	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.062	0.4927	6.92	No	18	0.8202	0.5153	5.556	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.8845	0.5432	6.92	No	19	0.7138	0.2914	5.263	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	4.054	2.769	6.92	No	19	3.412	1.098	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.078	0.6625	6.92	No	19	0.8703	0.3549	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.948	0.261	6.92	No	19	0.6337	0.3534	5.263	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9055	0.4908	6.92	No	19	0.6981	0.3541	5.263	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.148	0.7362	6.92	No	19	0.9422	0.3517	5.263	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.06	4	No	20	0.0825	0.02103	40	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.044	4	No	20	0.1332	0.09928	70	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.14	0.07	4	No	20	0.0921	0.02603	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27S	0.2052	0.1014	4	No	20	0.1634	0.1047	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.14	0.078	4	No	20	0.1269	0.08215	25	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2651	0.1498	4	No	20	0.2075	0.1015	10	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.09525	0.05897	4	No	20	0.0882	0.03115	35	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	YGWC-26I	0.001	0.000059	0.0013	No	15	0.000874	0.0003325	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.001	0.000064	0.0013	No	15	0.00069	0.0004539	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.001	0.0002	0.0013	No	15	0.0007625	0.0003766	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.001	0.000063	0.0013	No	15	0.0006876	0.0004573	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29I	0.001	0.00016	0.0013	No	15	0.0008214	0.0003702	80	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007101	0.006541	0.03	No	19	0.006821	0.0004779	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.01037	0.008039	0.03	No	19	0.009205	0.001991	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.00081	0.03	No	19	0.02846	0.006697	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.007044	0.00663	0.03	No	19	0.006837	0.0003531	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.03	No	19	0.0287	0.005667	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29I	0.0074	0.0052	0.03	No	19	0.007226	0.005581	5.263	None	No	0.01	NP (normality)

State Confidence Intervals - All Results (No Significant)

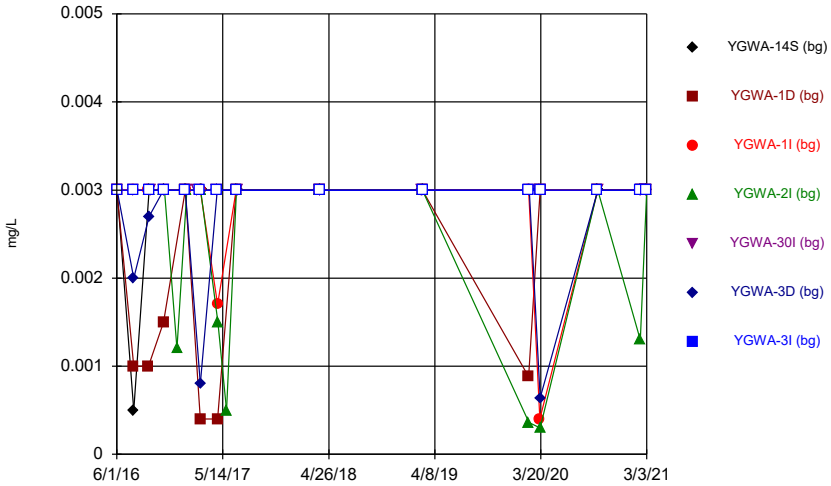
Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 12:16 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	YGWC-27I	0.01	0.0014	0.014	No	19	0.005942	0.004398	52.63	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.014	No	19	0.005411	0.004474	47.37	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00083	0.014	No	19	0.008046	0.003887	78.95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29I	0.01	0.00083	0.014	No	19	0.009517	0.002104	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0031	0.0018	0.05	No	17	0.002476	0.001067	11.76	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	No	17	0.004076	0.001731	76.47	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	No	17	0.004776	0.0009216	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	No	17	0.004765	0.0009701	94.12	None	No	0.01	NP (NDs)

FIGURE A.

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

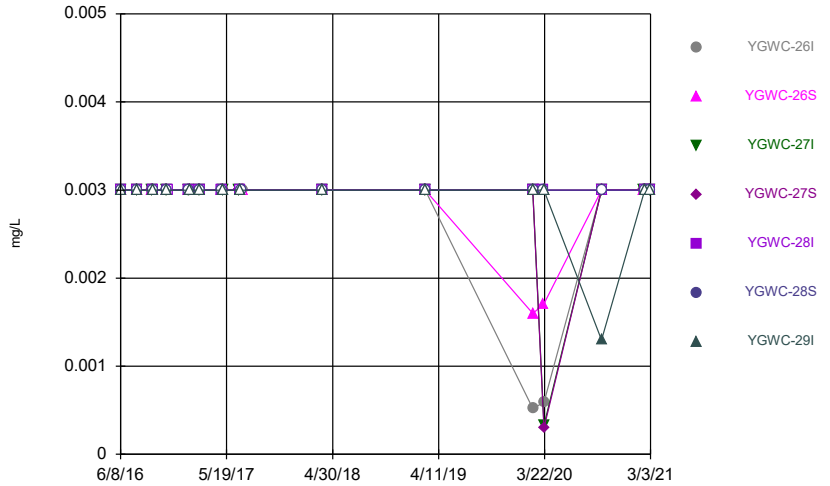
Time Series



Constituent: Antimony Analysis Run 5/10/2021 3:41 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
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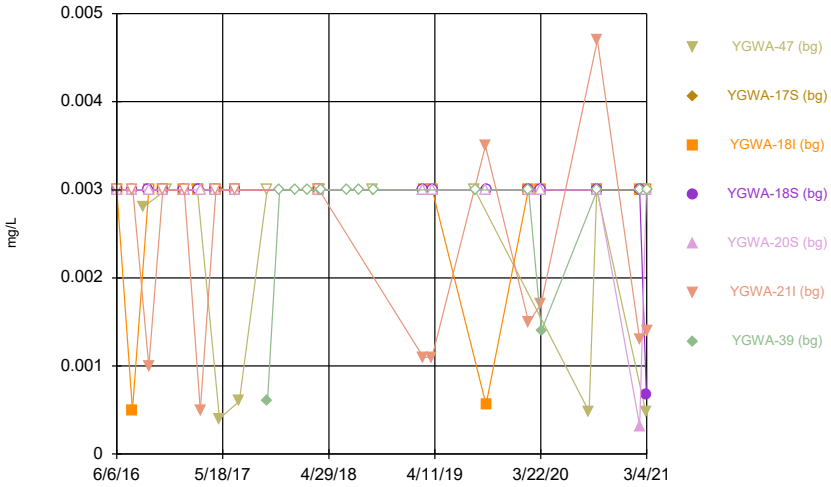

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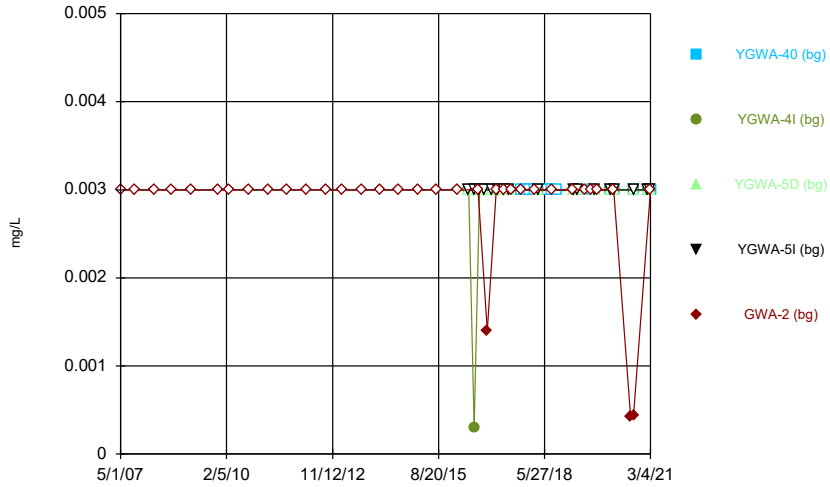
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

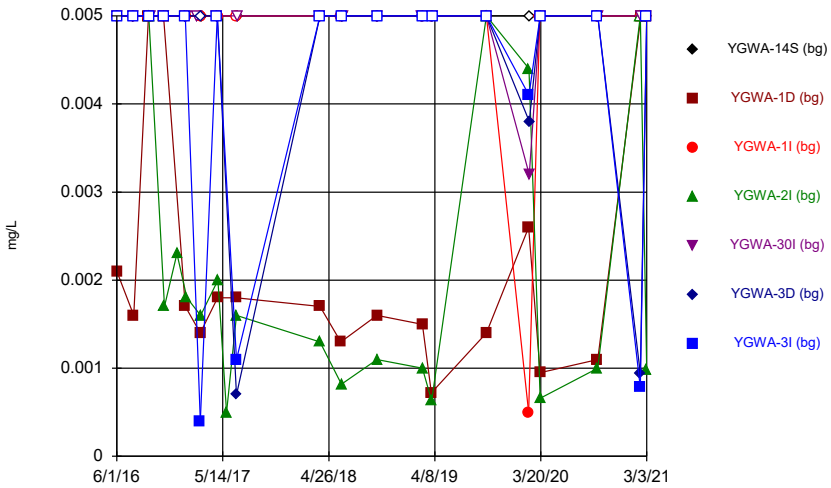
Time Series



Constituent: Antimony Analysis Run 5/10/2021 3:41 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

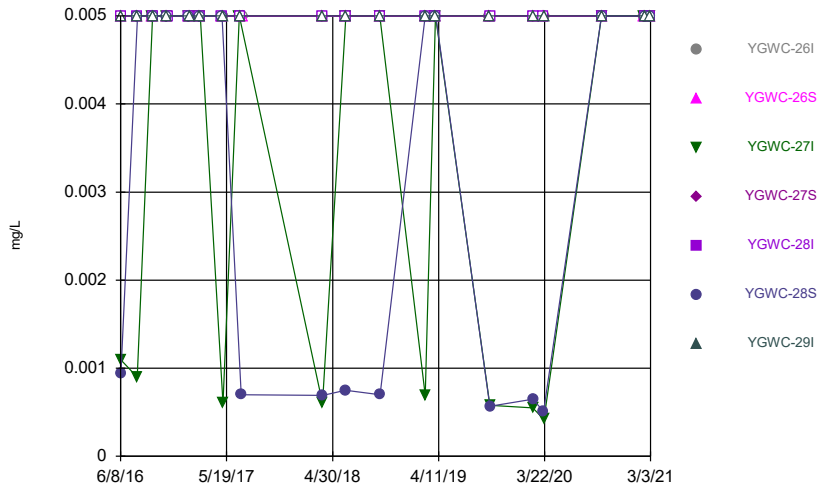
Time Series



Constituent: Arsenic Analysis Run 5/10/2021 3:41 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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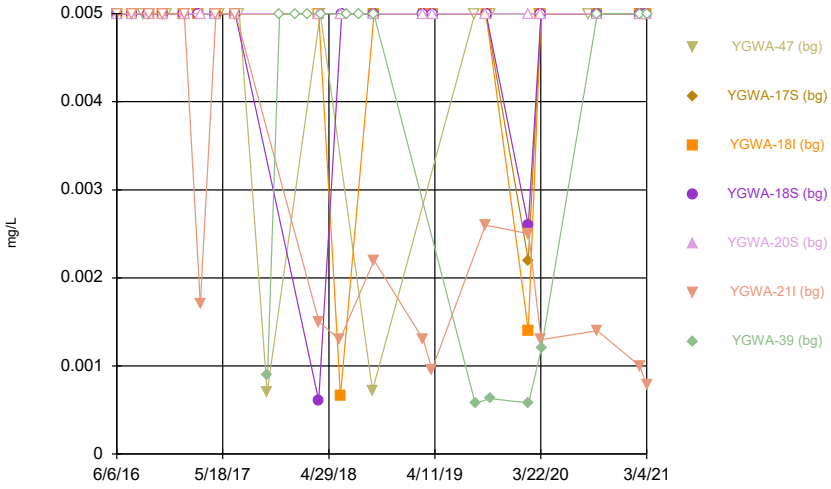
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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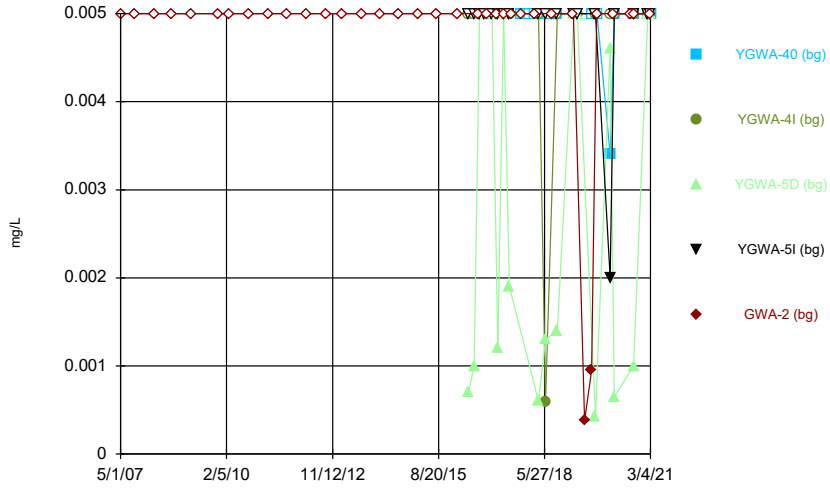
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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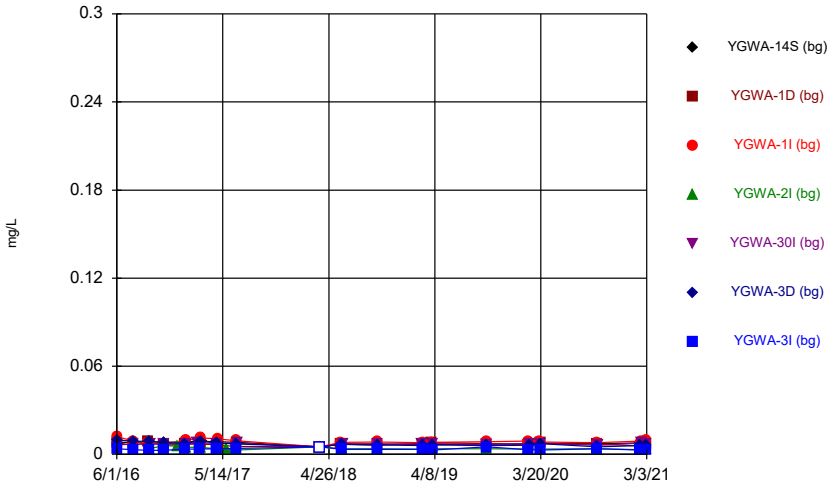
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

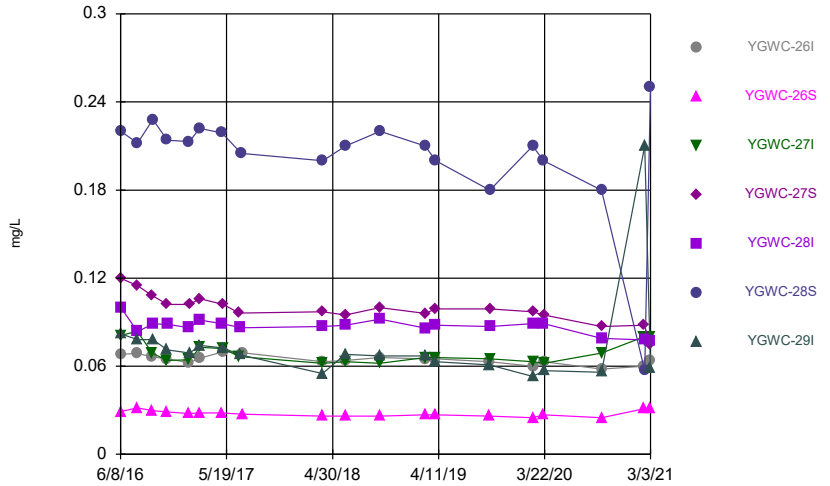
Time Series



Constituent: Barium Analysis Run 5/10/2021 3:41 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Time Series



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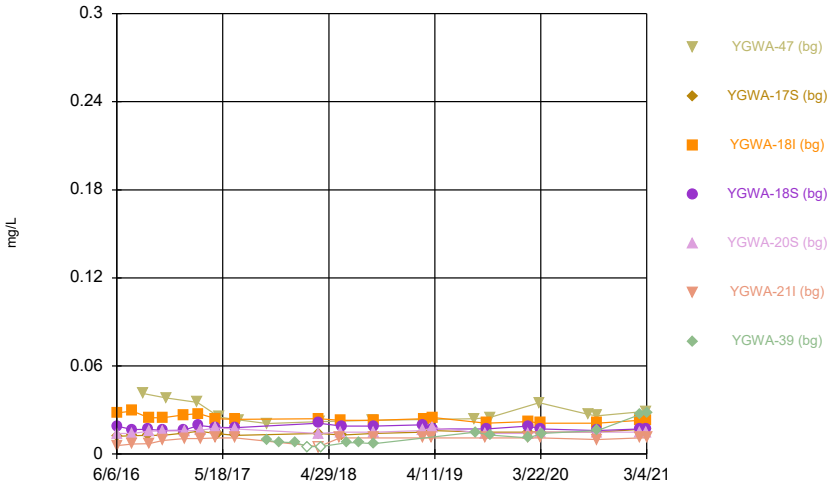
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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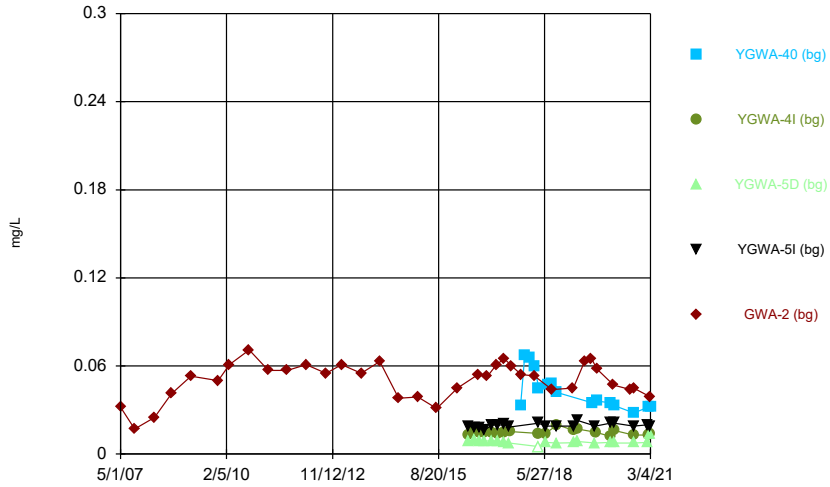
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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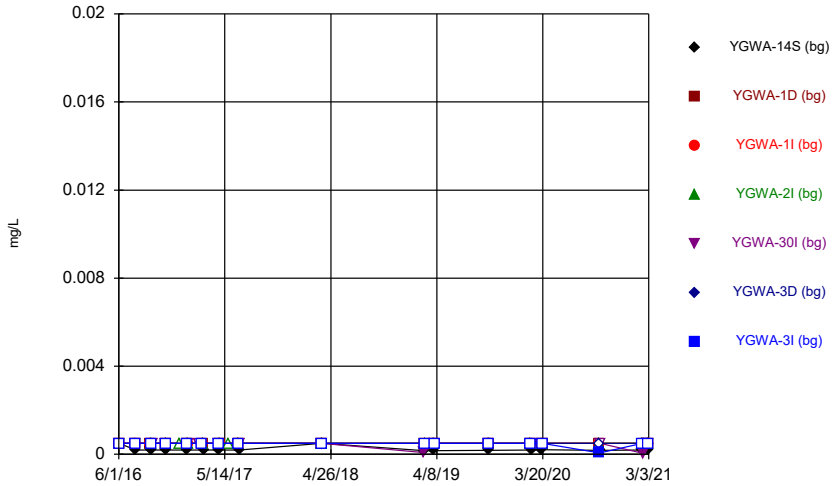
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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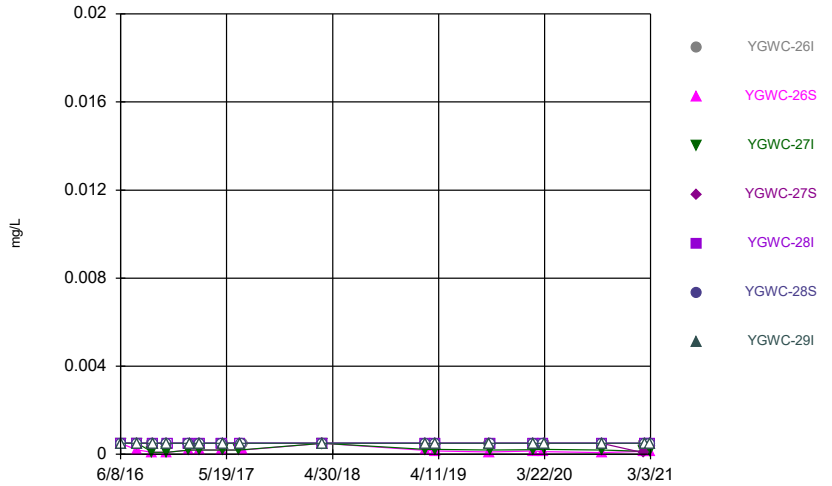
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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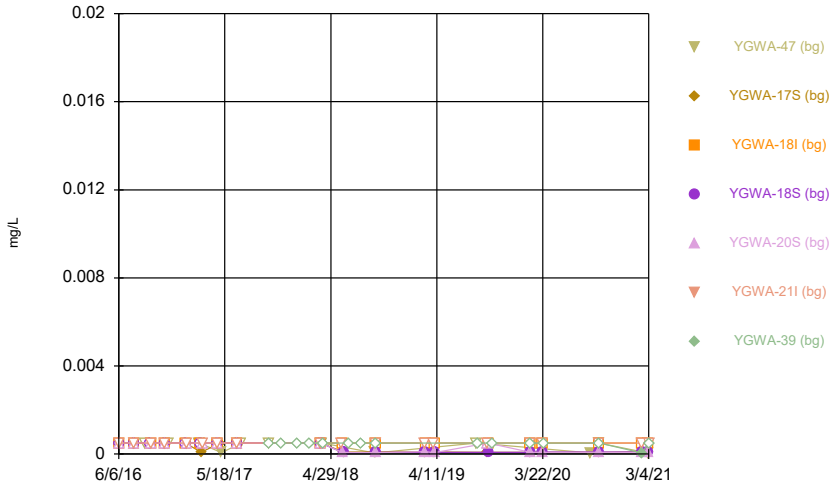
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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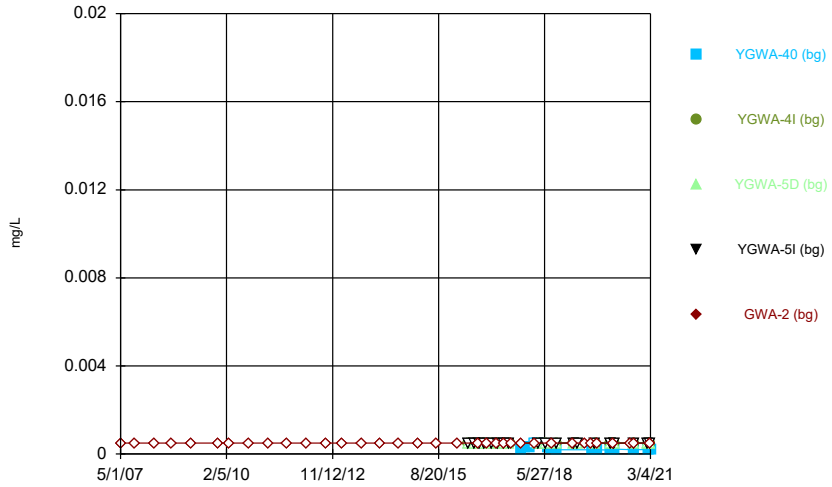
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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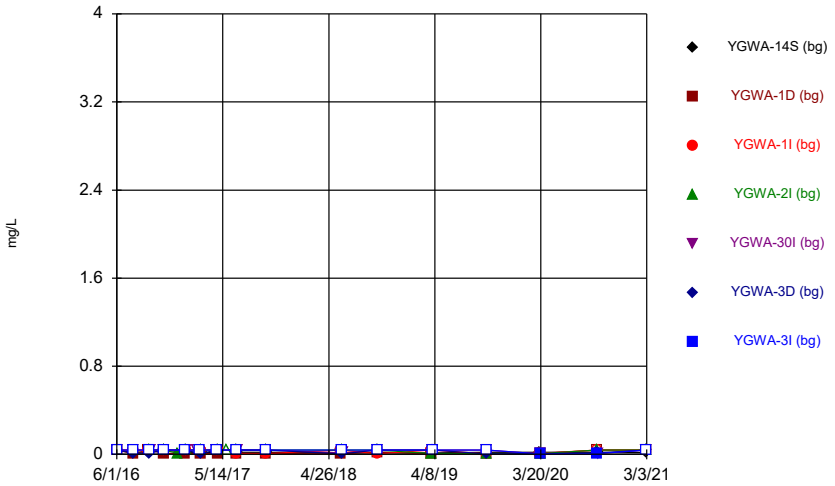
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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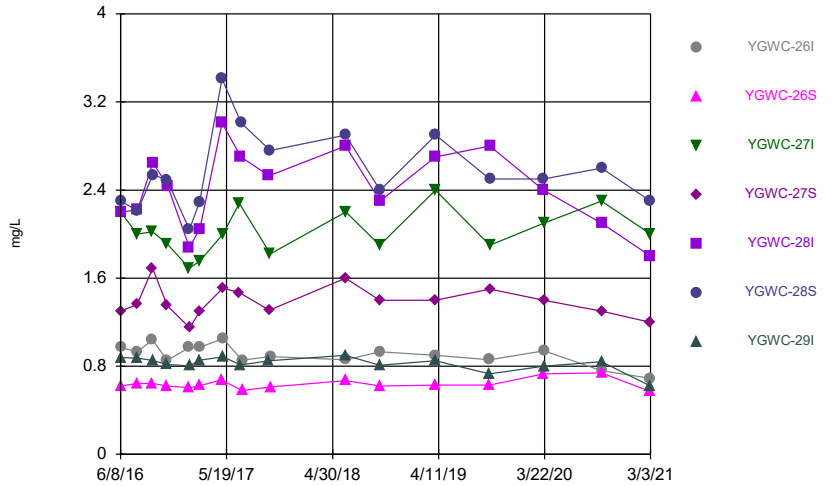
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Time Series



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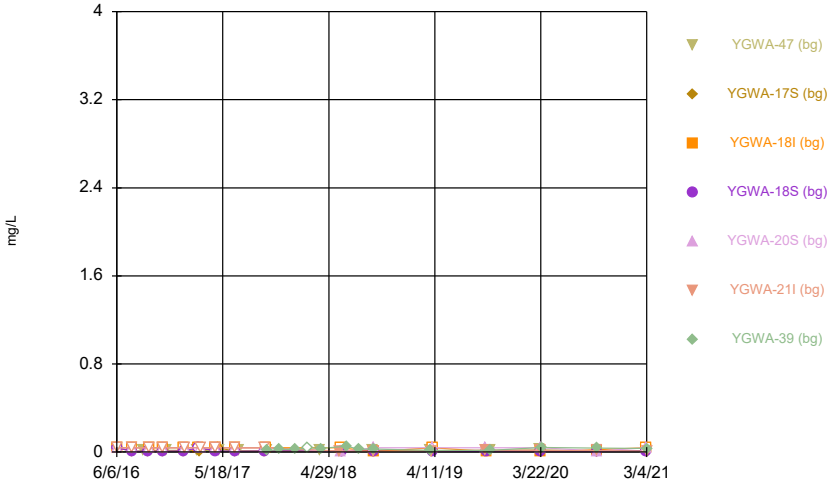
Hollow symbols indicate censored values.

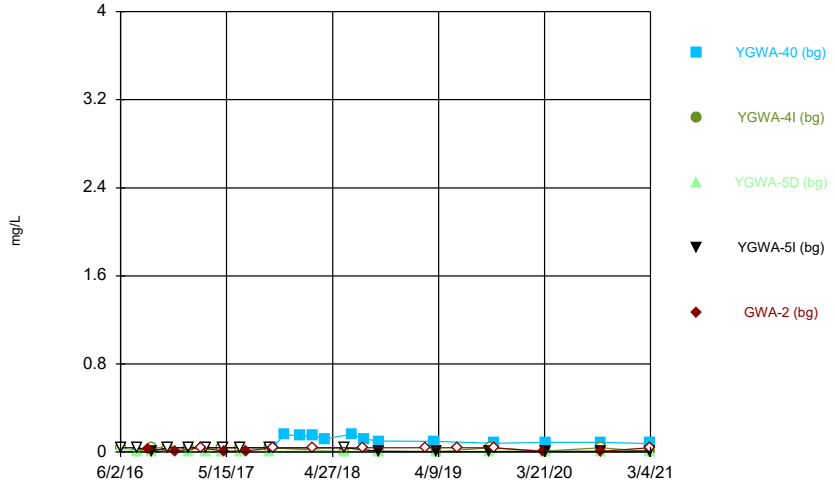
Time Series



Constituent: Boron Analysis Run 5/10/2021 3:41 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

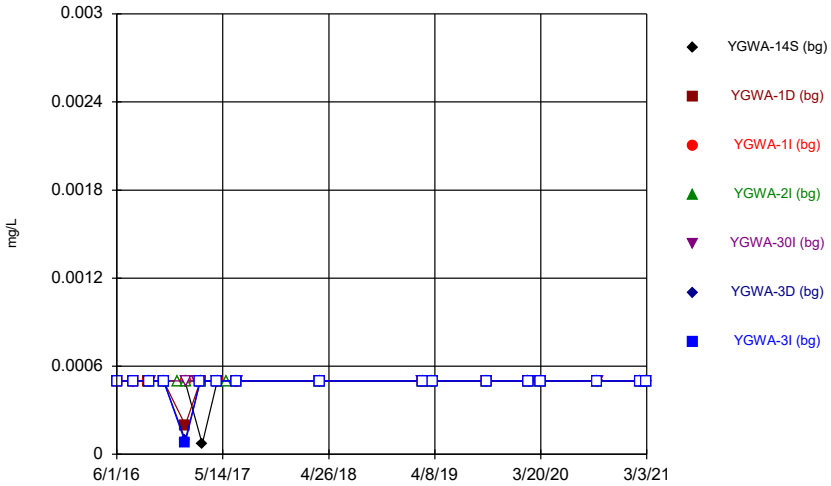
Time Series



Constituent: Boron Analysis Run 5/10/2021 3:41 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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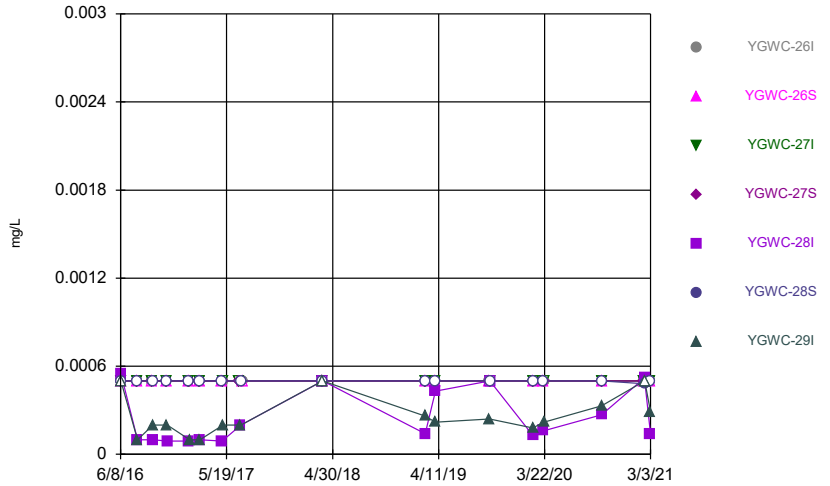
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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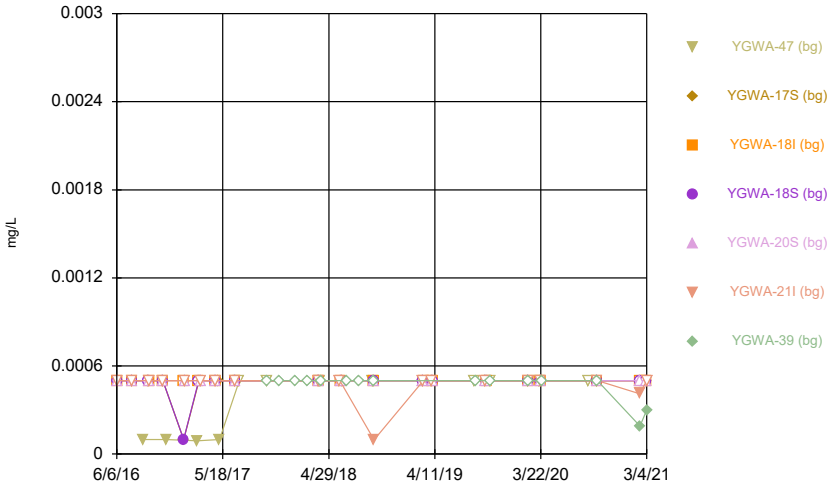
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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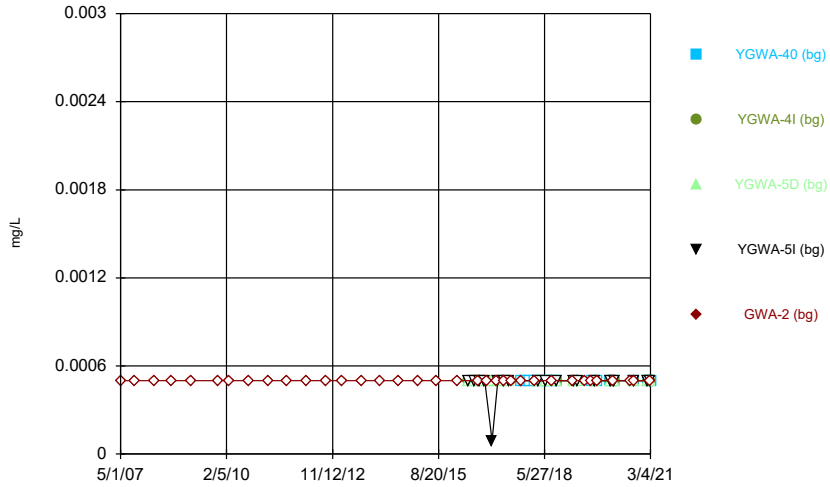
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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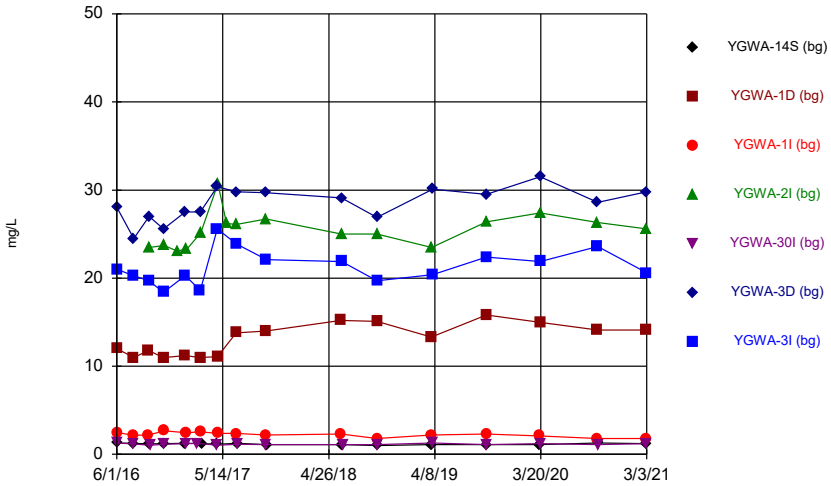
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Time Series

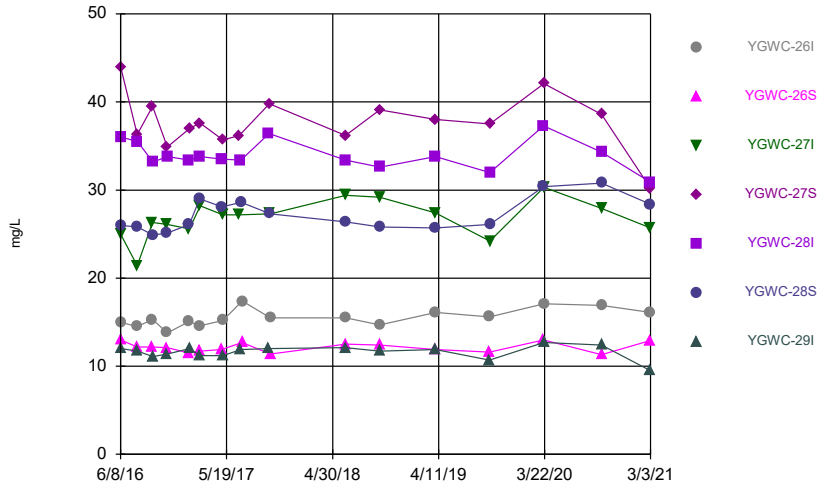


Constituent: Calcium Analysis Run 5/10/2021 3:41 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Time Series



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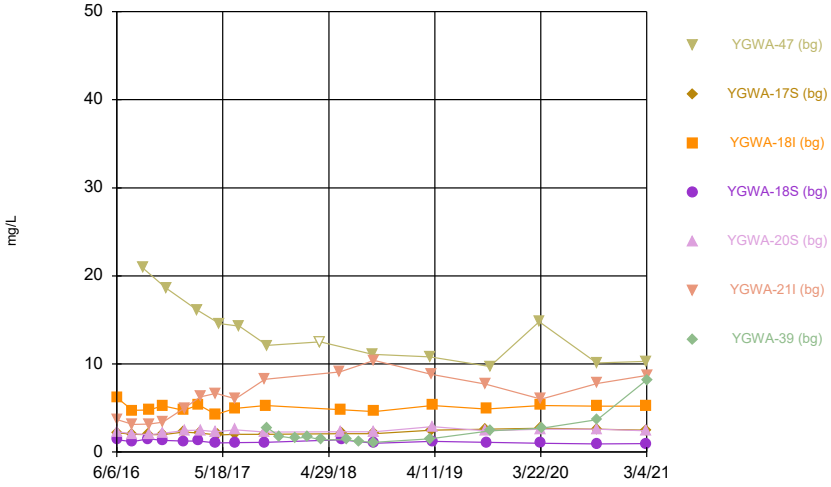
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



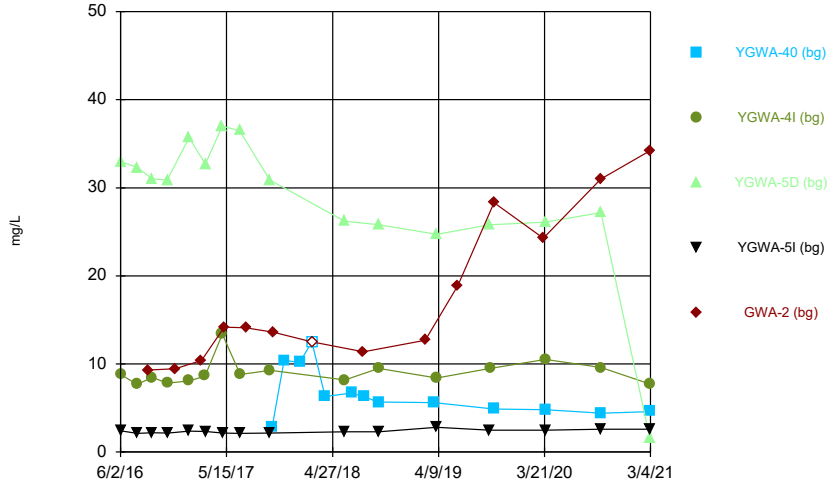
Constituent: Calcium Analysis Run 5/10/2021 3:41 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



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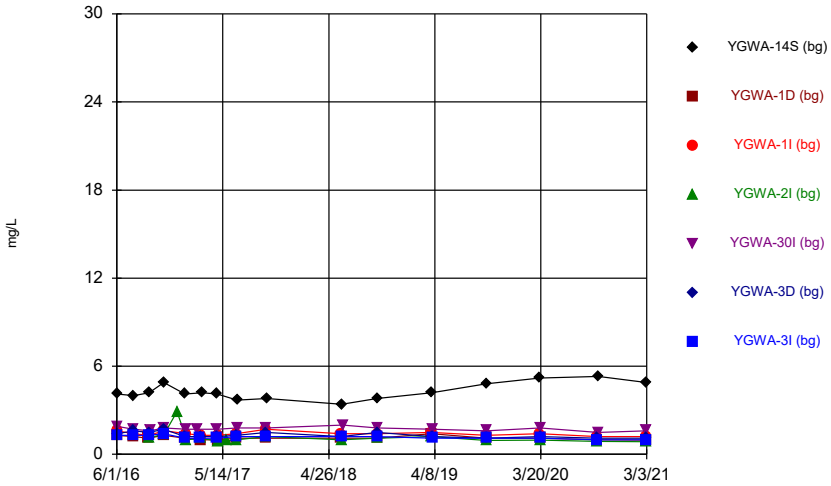
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Time Series

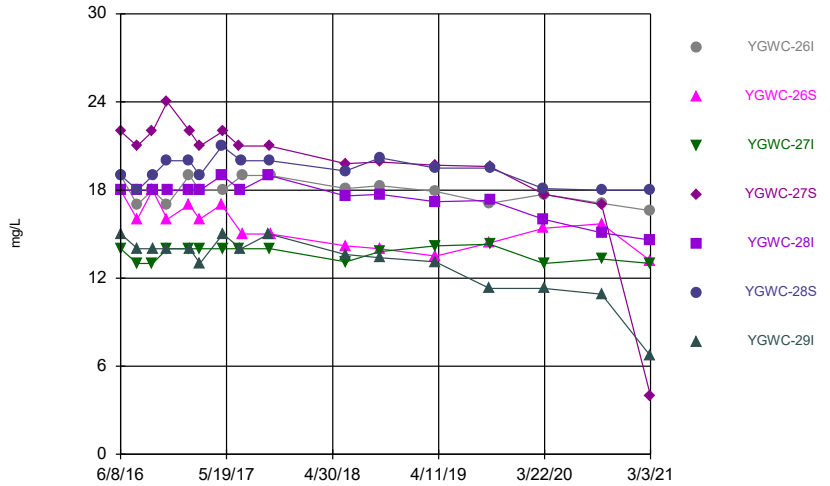


Constituent: Chloride Analysis Run 5/10/2021 3:41 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Time Series

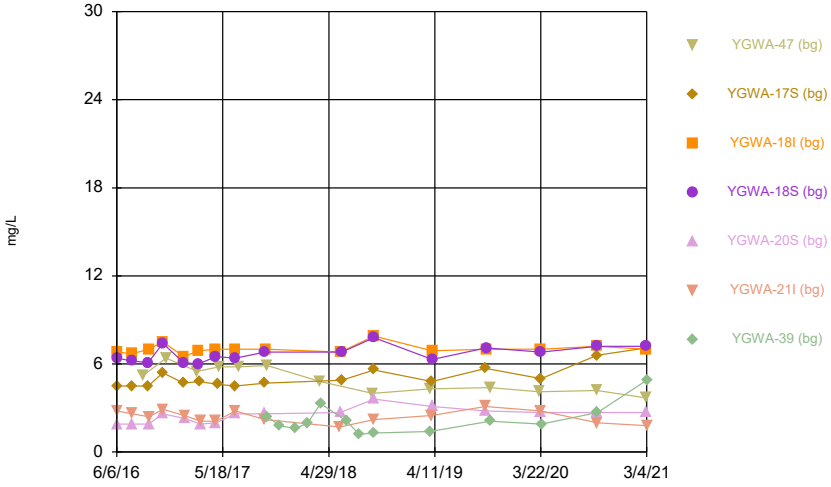


Constituent: Chloride Analysis Run 5/10/2021 3:41 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Time Series



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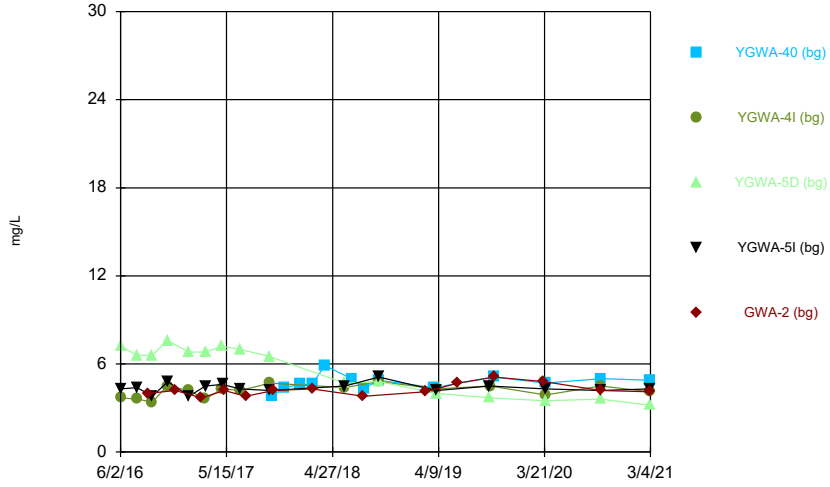
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Time Series

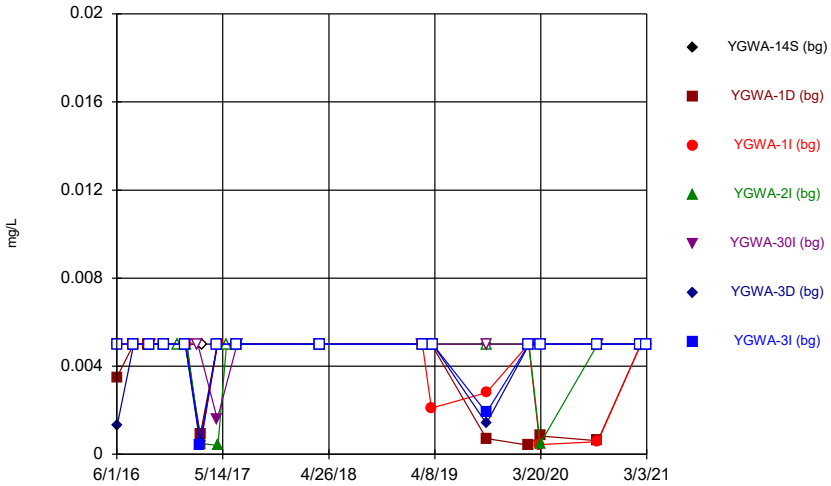


Constituent: Chloride Analysis Run 5/10/2021 3:42 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

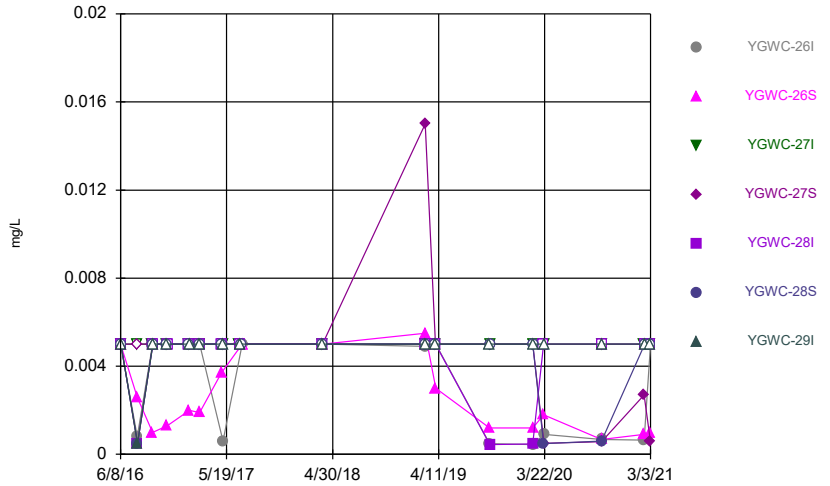
Time Series



Constituent: Chromium Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

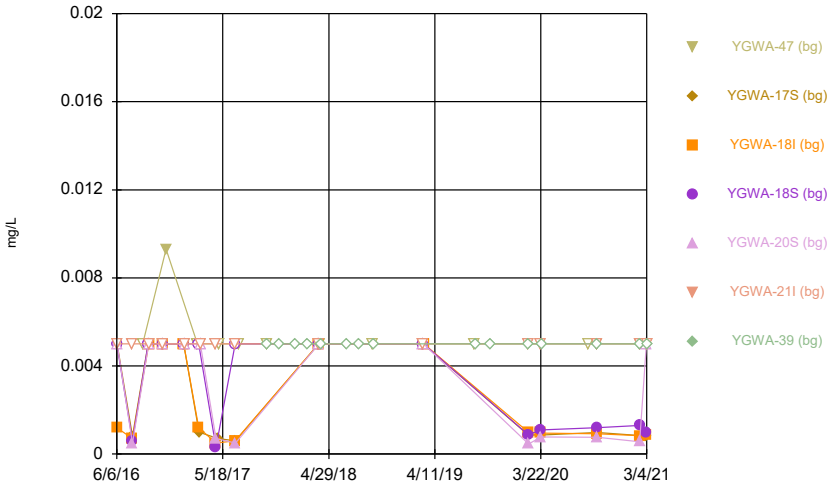
Time Series



Constituent: Chromium Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

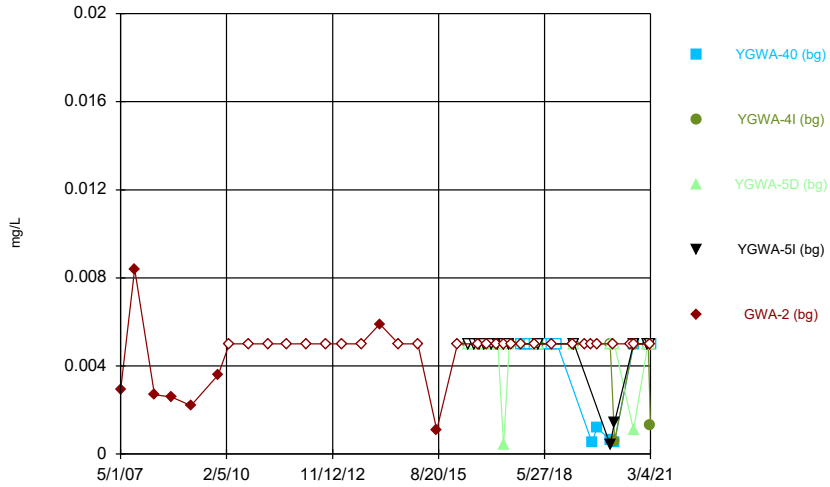
Time Series



Constituent: Chromium Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

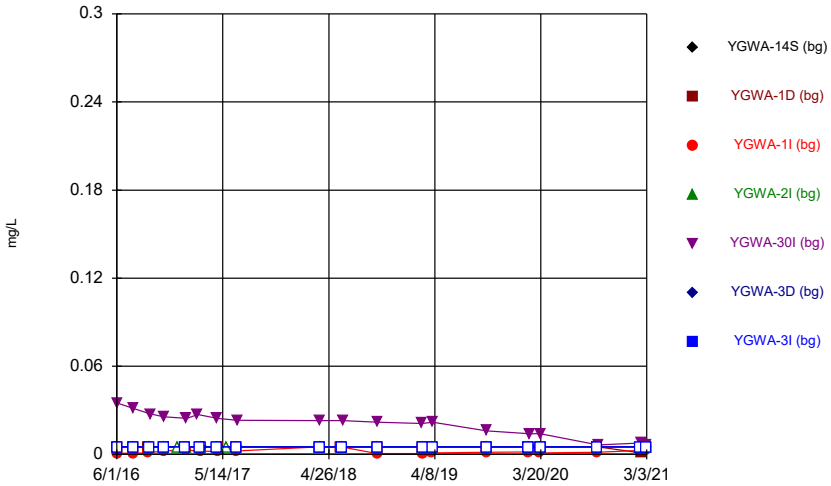
Time Series



Constituent: Chromium Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

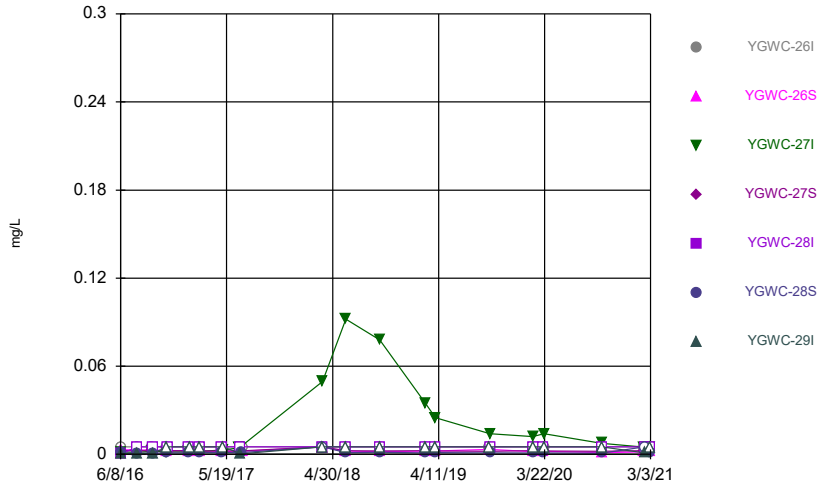
Time Series



Constituent: Cobalt Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

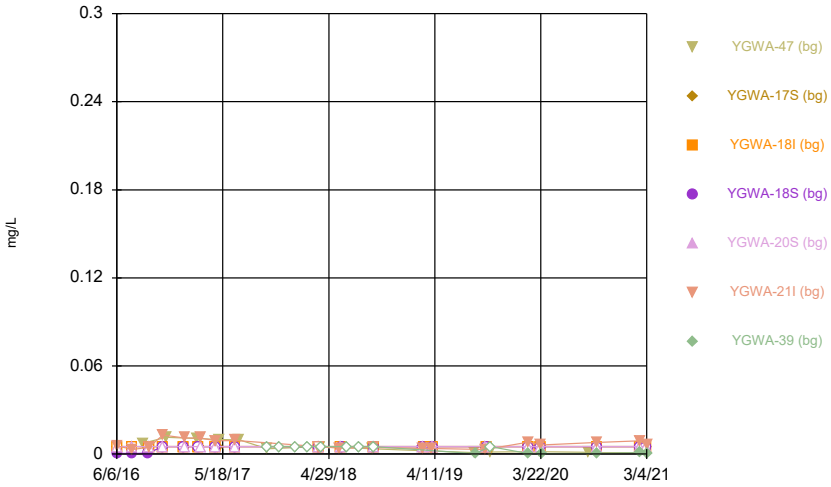
Time Series



Constituent: Cobalt Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

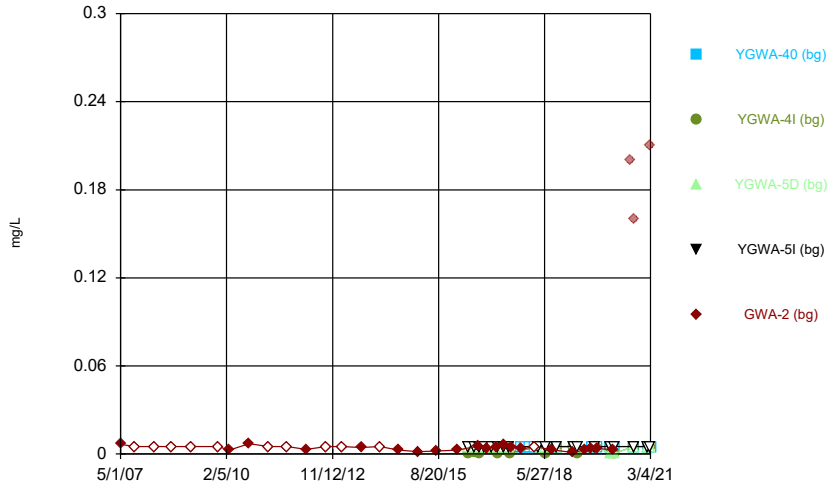
Time Series



Constituent: Cobalt Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

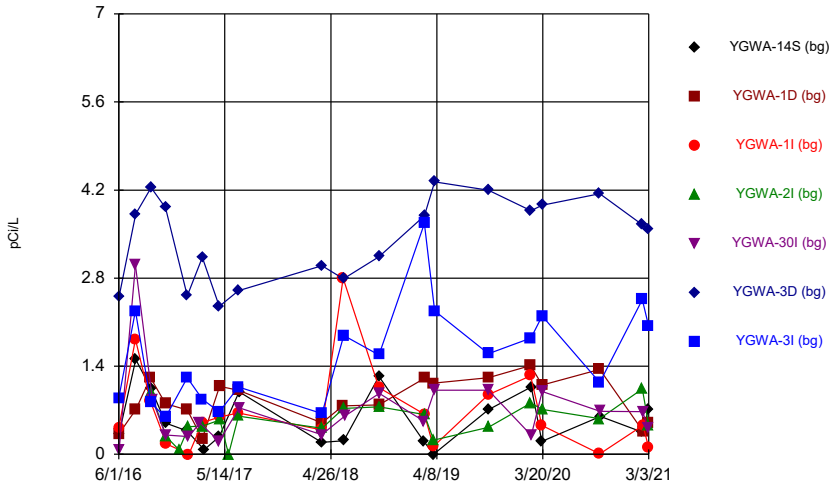
Time Series



Constituent: Cobalt Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Time Series



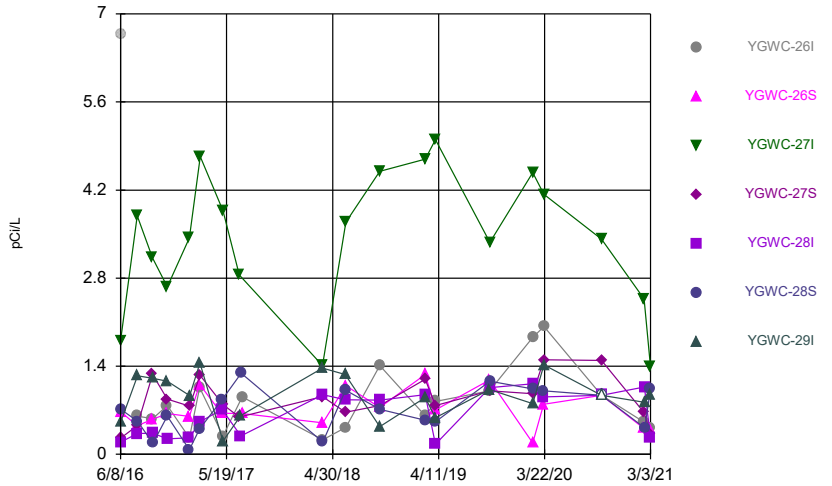
Constituent: Combined Radium 226 + 228 Analysis Run 5/10/2021 3:42 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

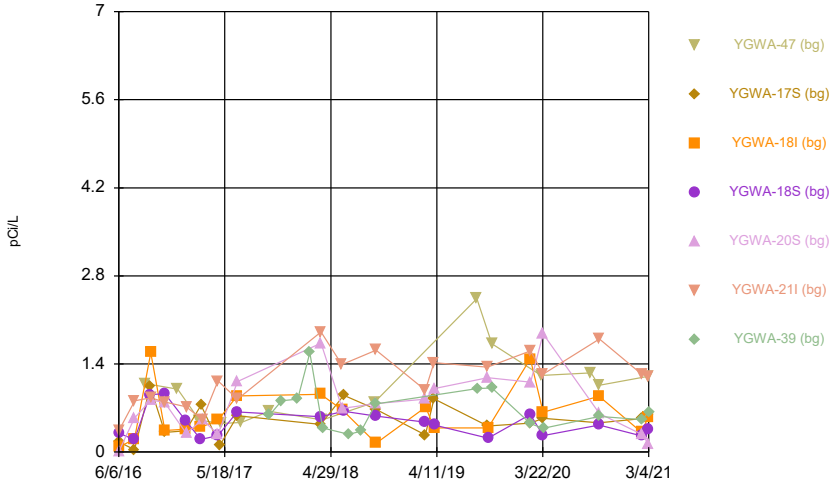


Constituent: Combined Radium 226 + 228 Analysis Run 5/10/2021 3:42 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Time Series

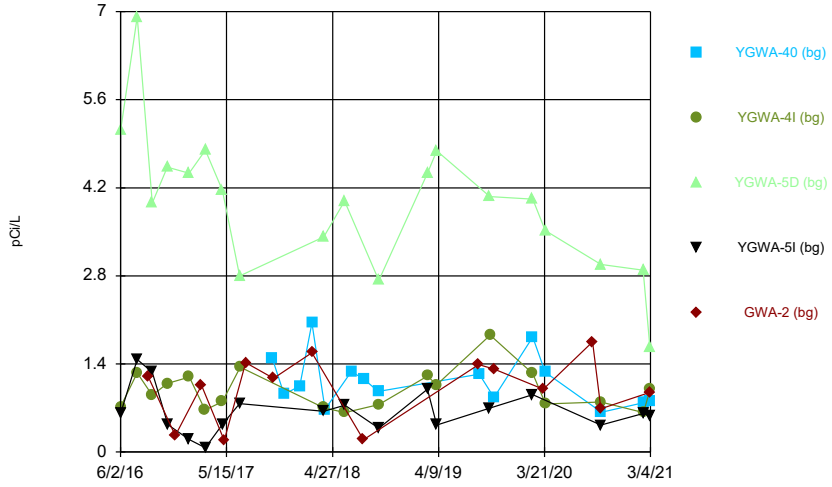


Constituent: Combined Radium 226 + 228 Analysis Run 5/10/2021 3:42 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Time Series

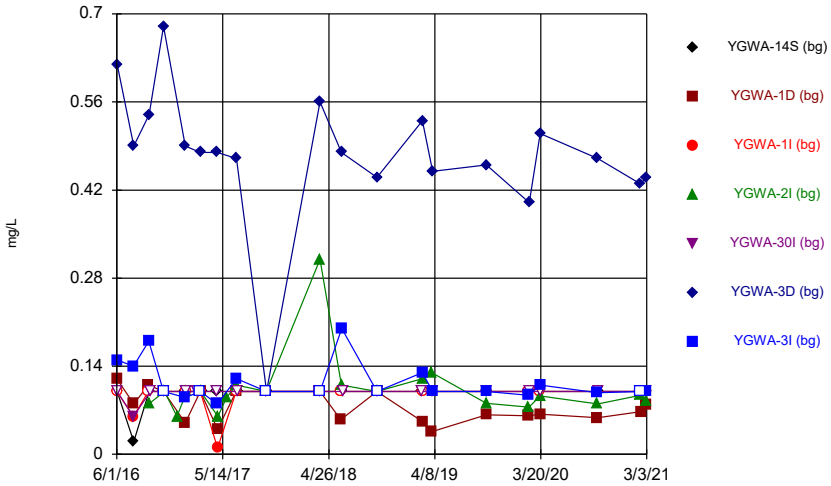


Constituent: Combined Radium 226 + 228 Analysis Run 5/10/2021 3:42 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

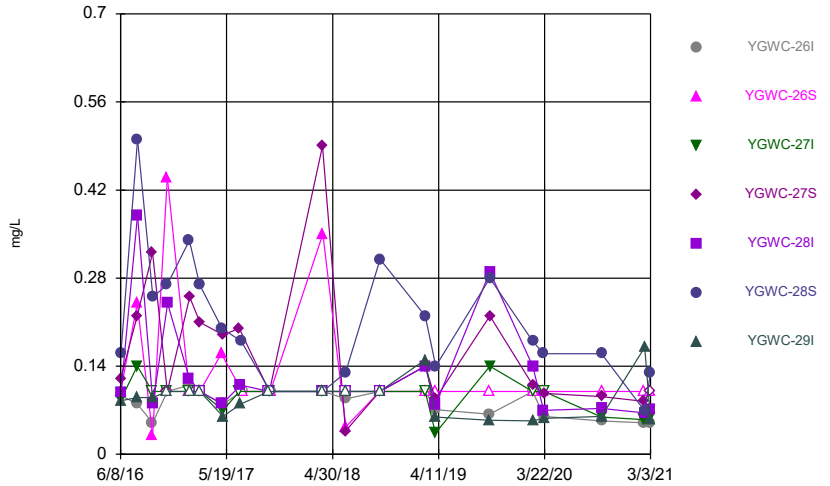
Time Series



Constituent: Fluoride Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

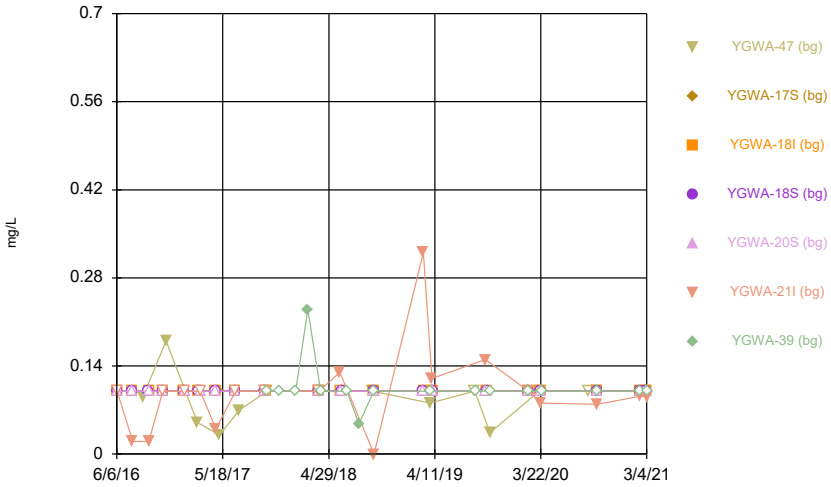
Time Series



Constituent: Fluoride Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

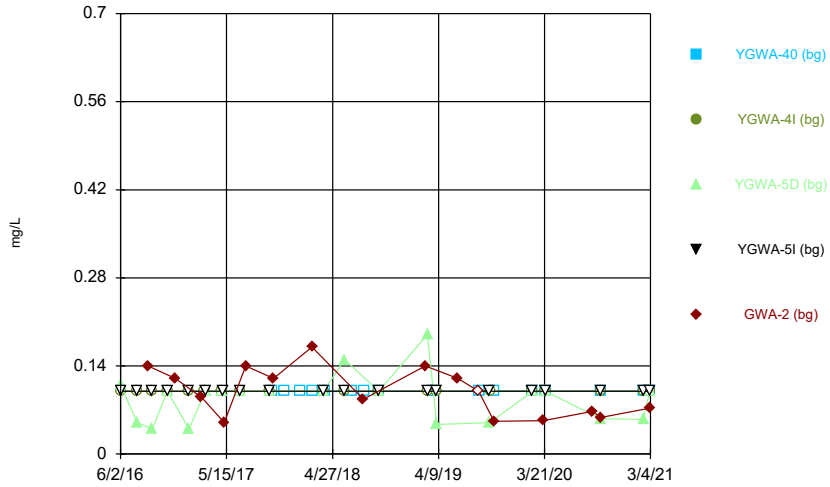
Time Series



Constituent: Fluoride Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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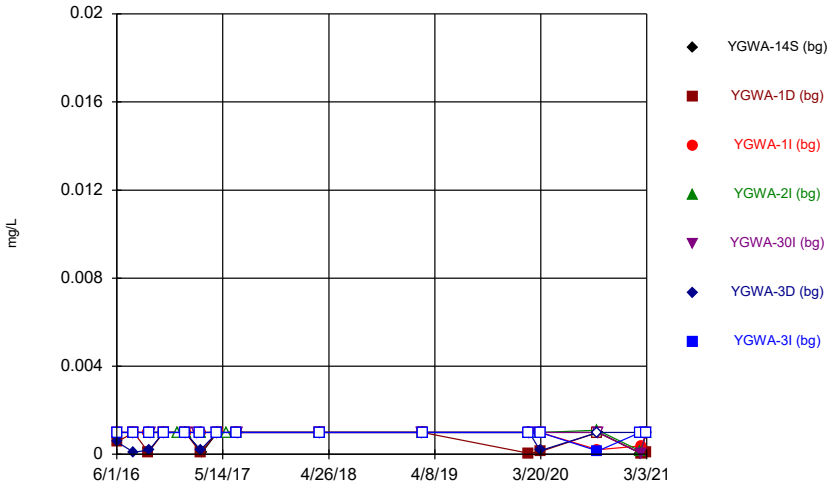
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

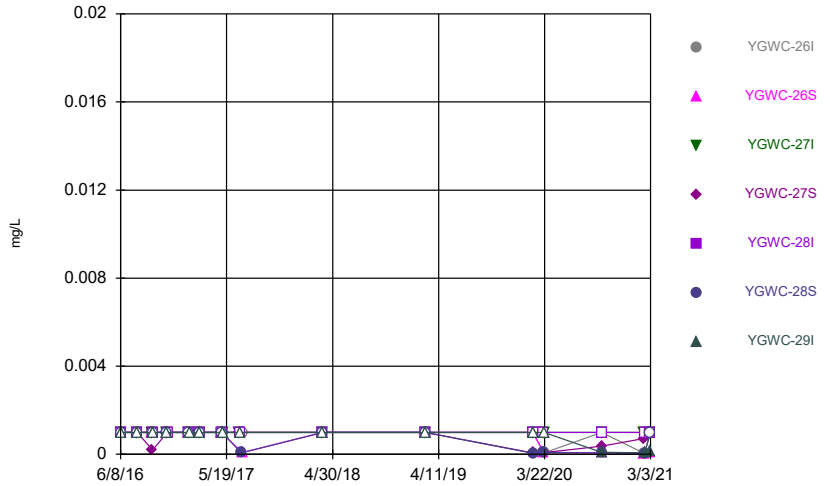
Time Series



Constituent: Lead Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

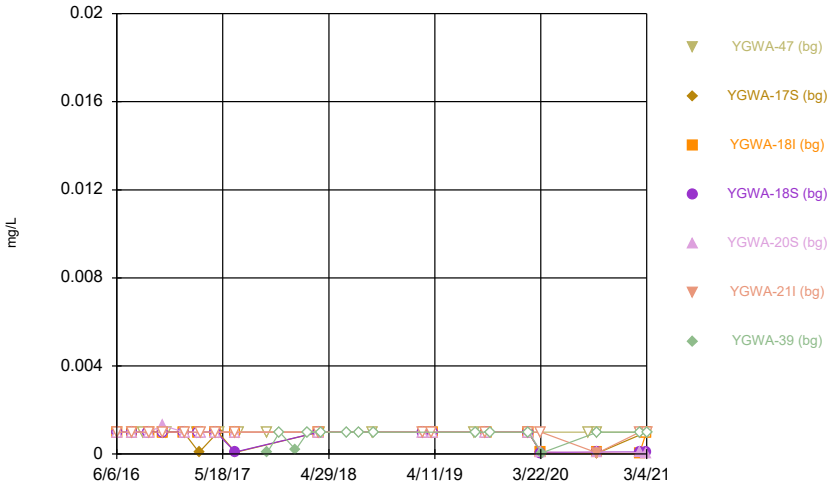
Time Series



Constituent: Lead Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

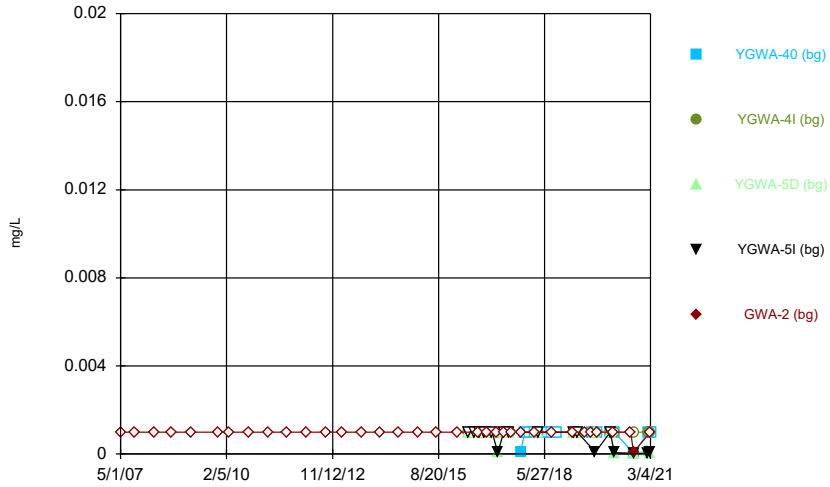
Time Series



Constituent: Lead Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

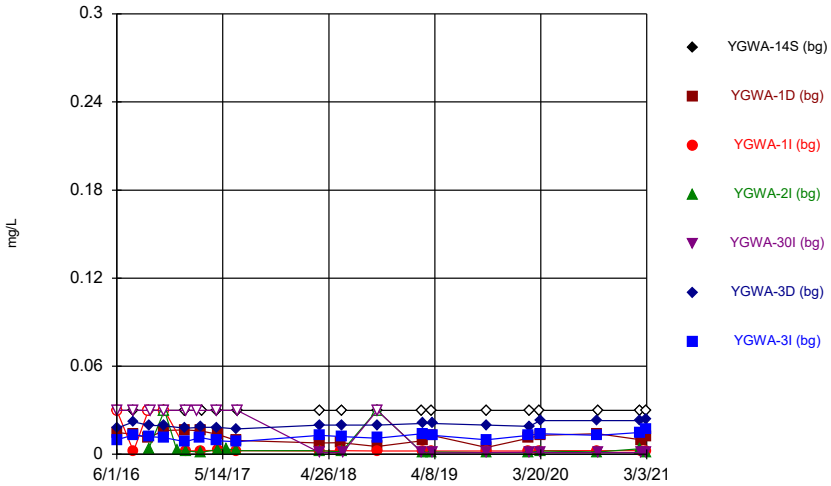
Time Series



Constituent: Lead Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

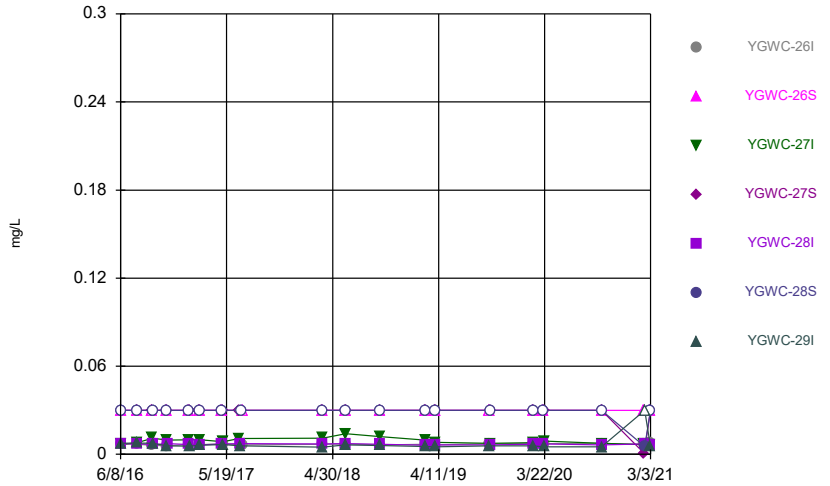
Time Series



Constituent: Lithium Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

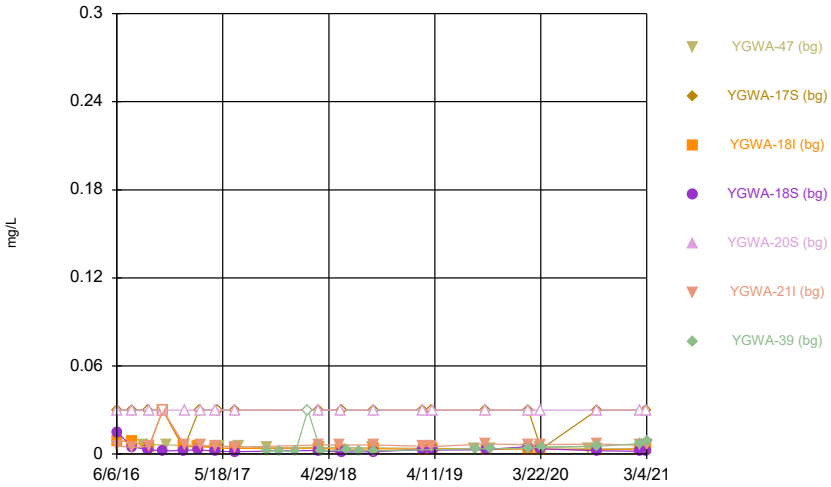
Time Series



Constituent: Lithium Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

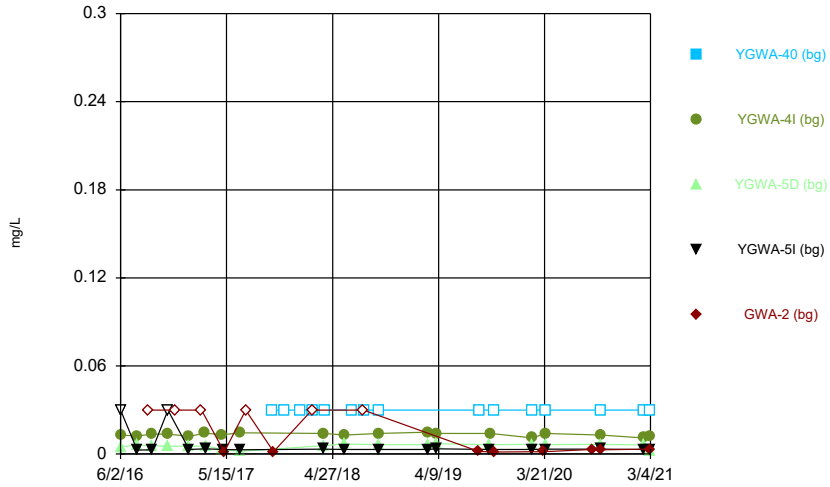
Time Series



Constituent: Lithium Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

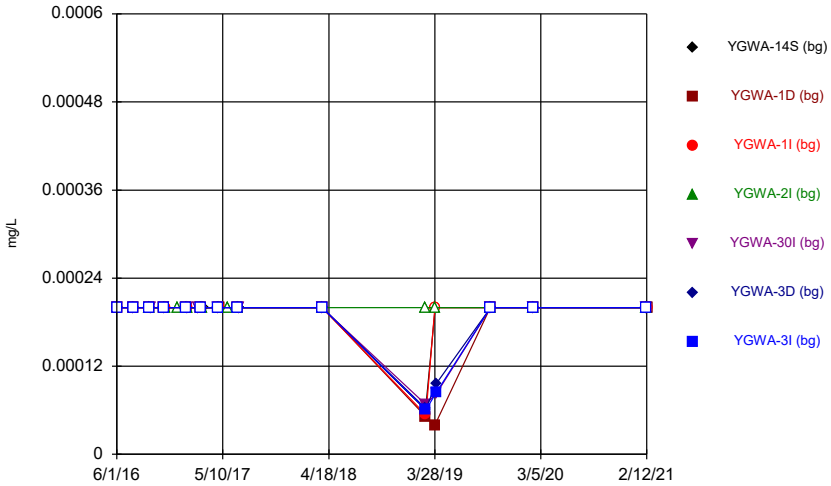
Time Series



Constituent: Lithium Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

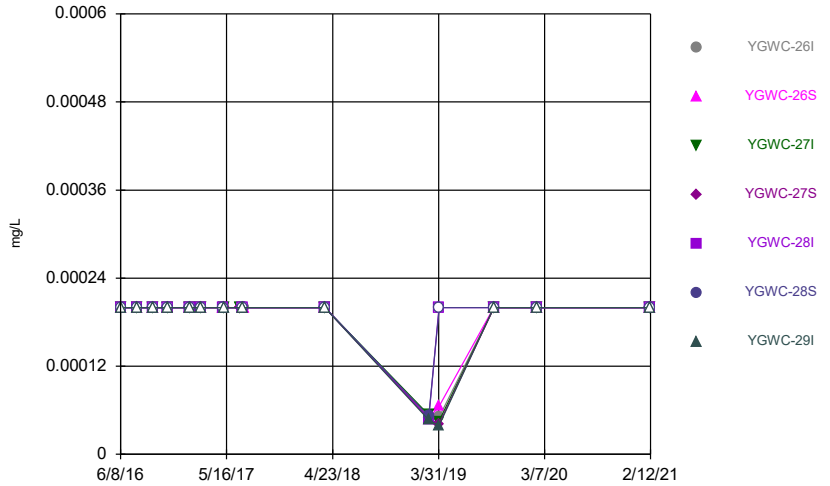
Time Series



Constituent: Mercury Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

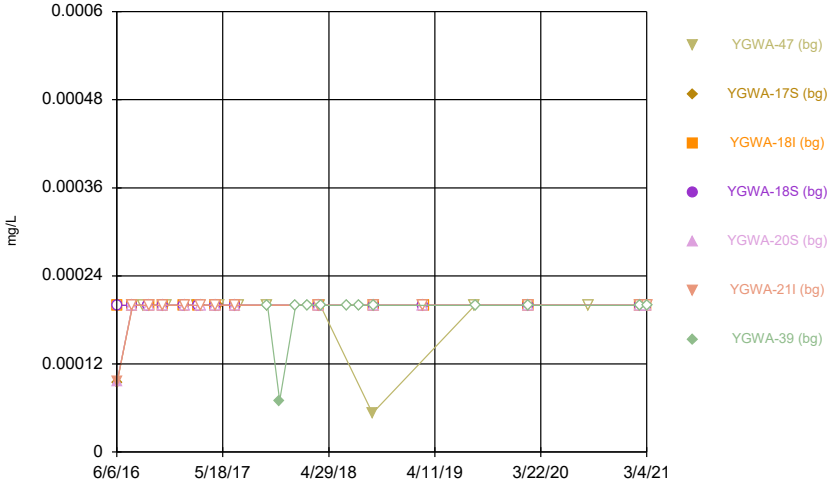
Time Series



Constituent: Mercury Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

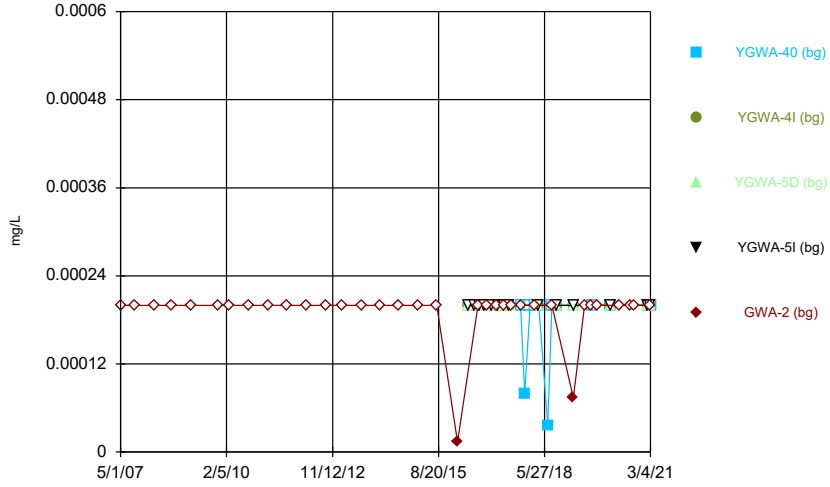
Time Series



Constituent: Mercury Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

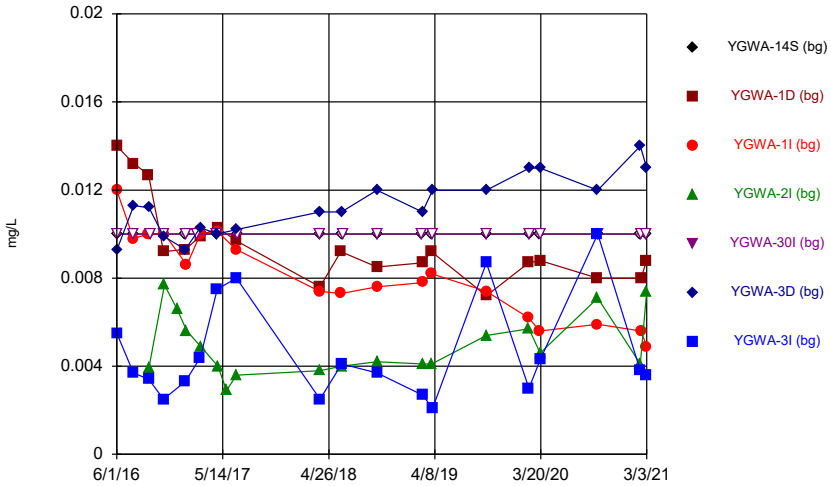
Time Series



Constituent: Mercury Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

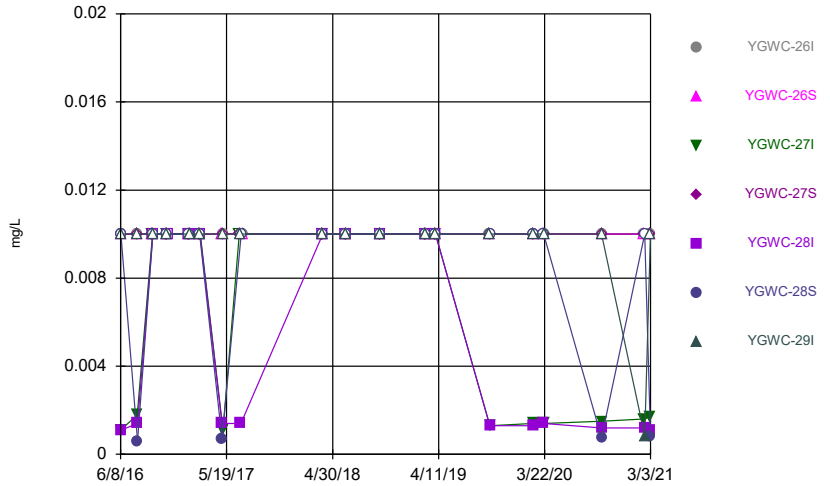
Time Series



Constituent: Molybdenum Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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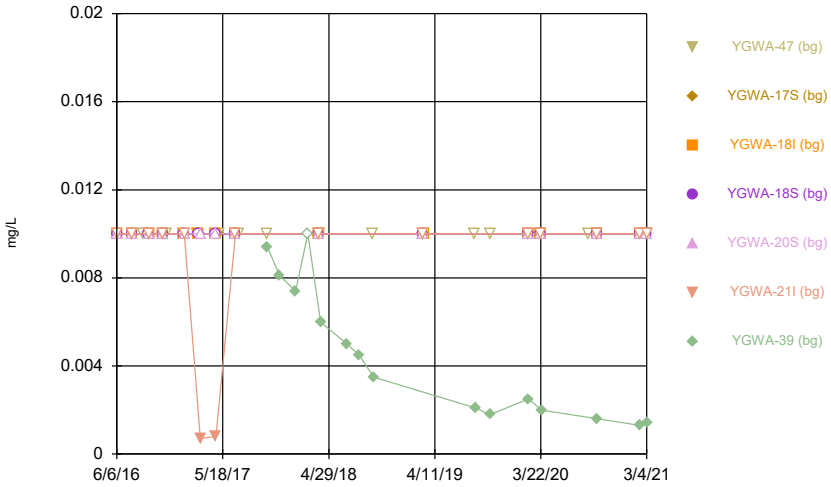
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

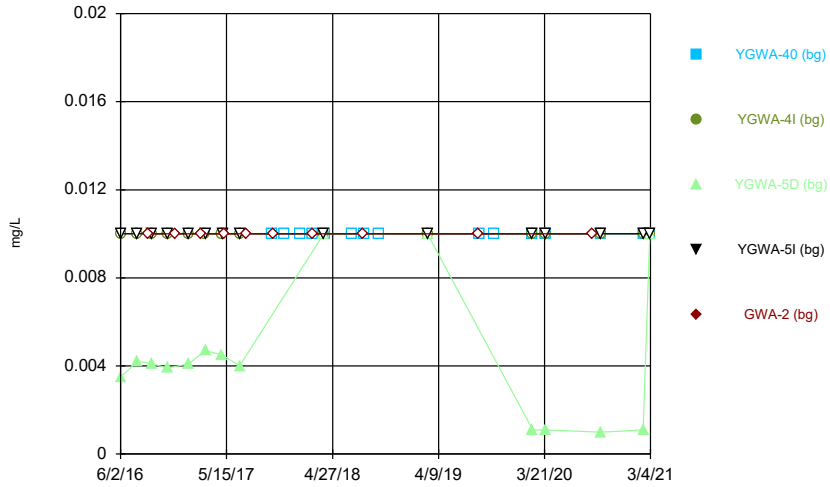
Time Series



Constituent: Molybdenum Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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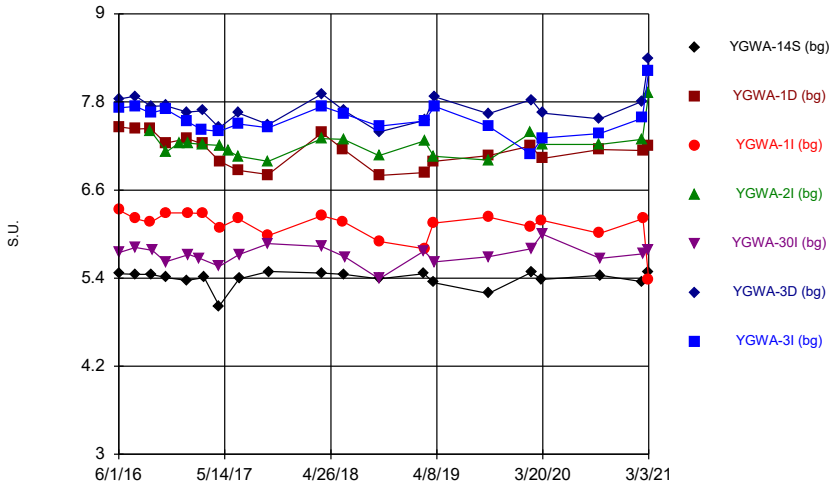
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series

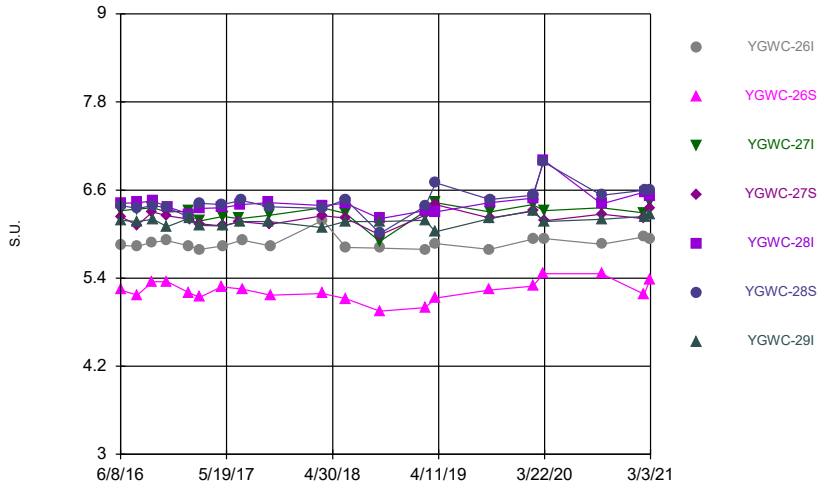


Constituent: pH Analysis Run 5/10/2021 3:42 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Time Series

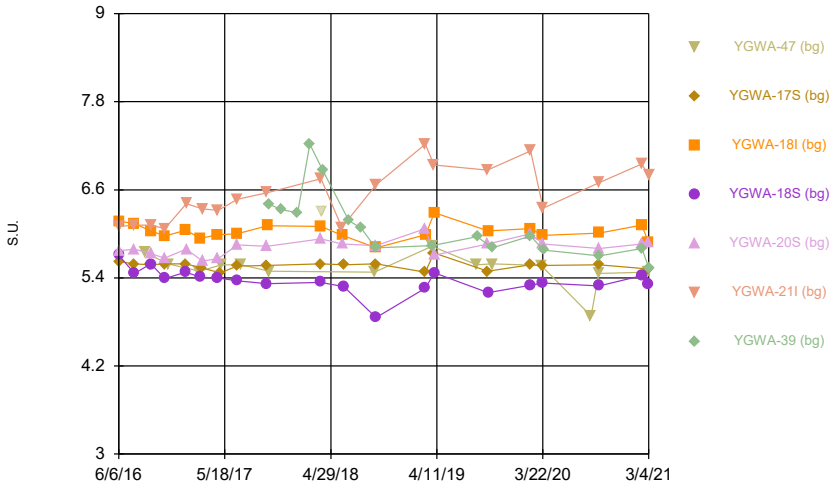


Constituent: pH Analysis Run 5/10/2021 3:42 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Time Series

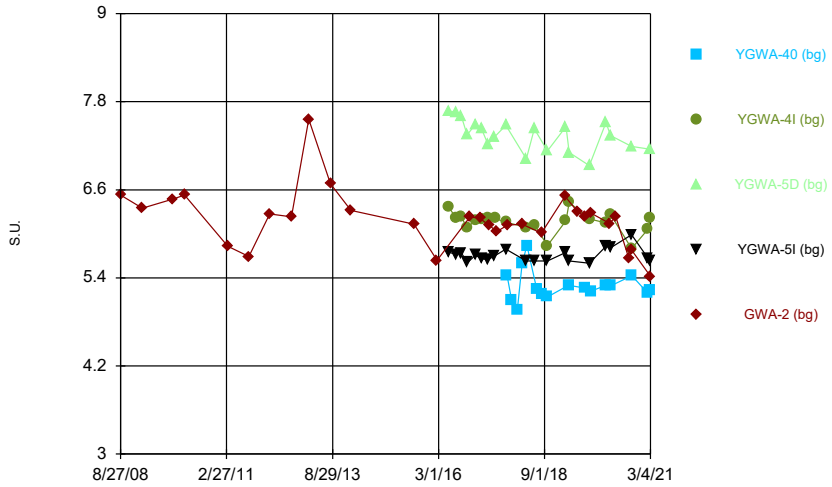


Constituent: pH Analysis Run 5/10/2021 3:42 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Time Series

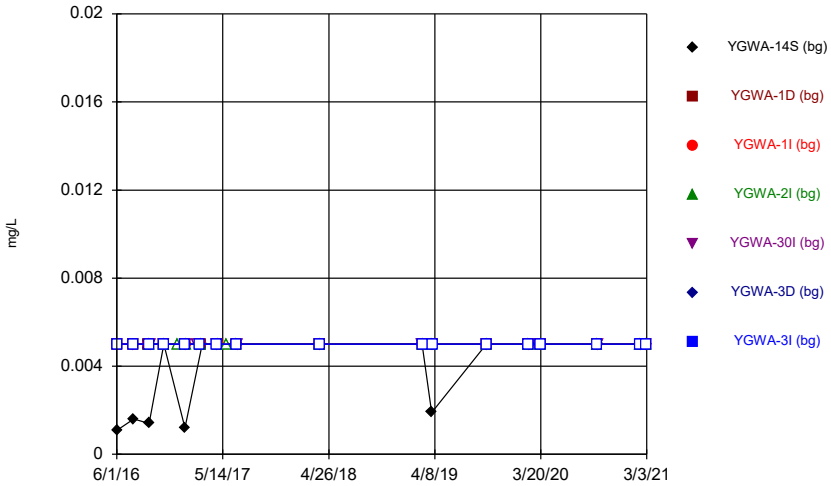


Constituent: pH Analysis Run 5/10/2021 3:42 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

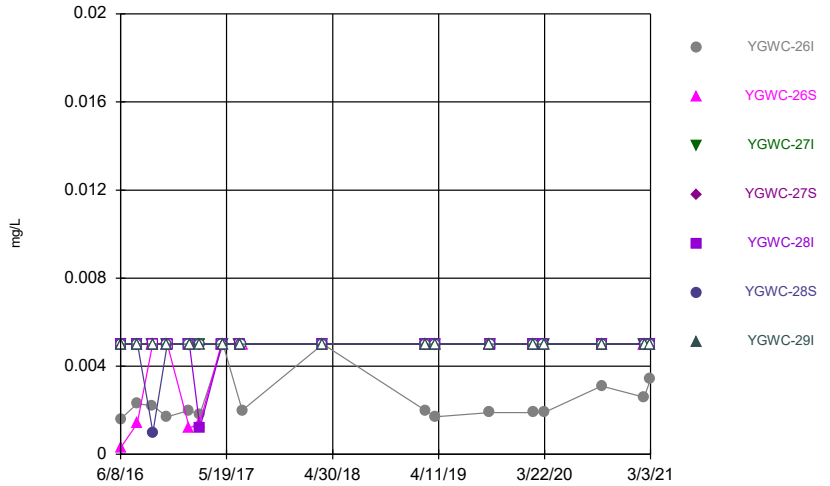
Time Series



Constituent: Selenium Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

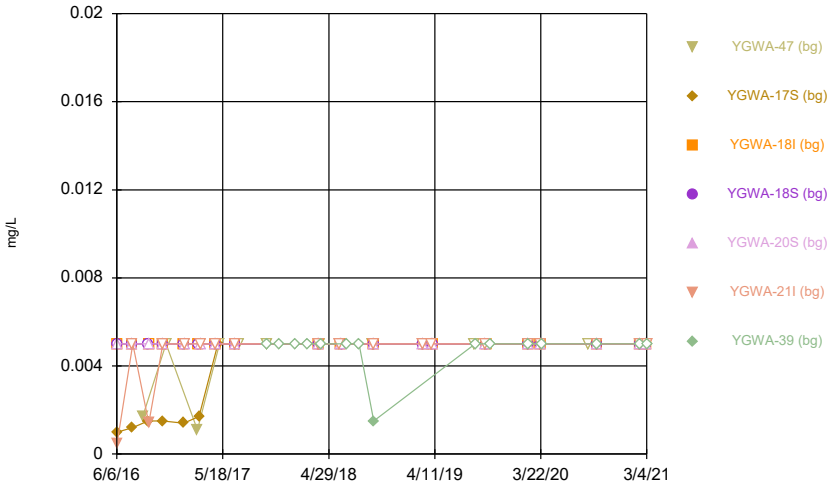
Time Series



Constituent: Selenium Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

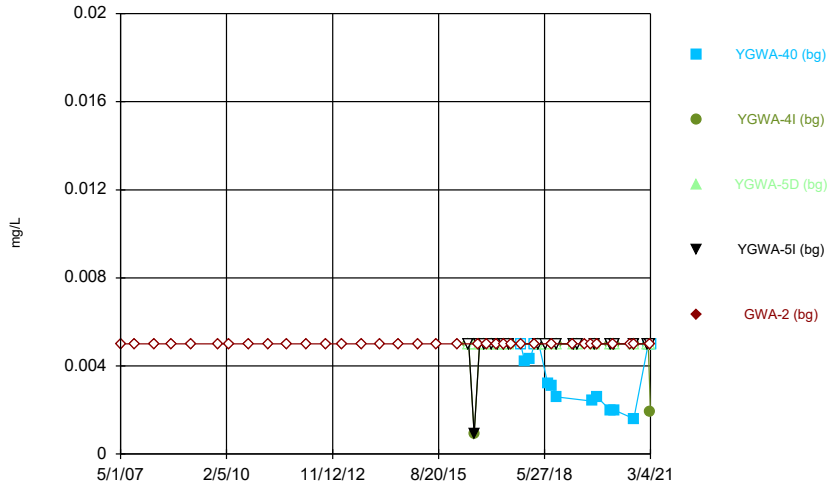
Time Series



Constituent: Selenium Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

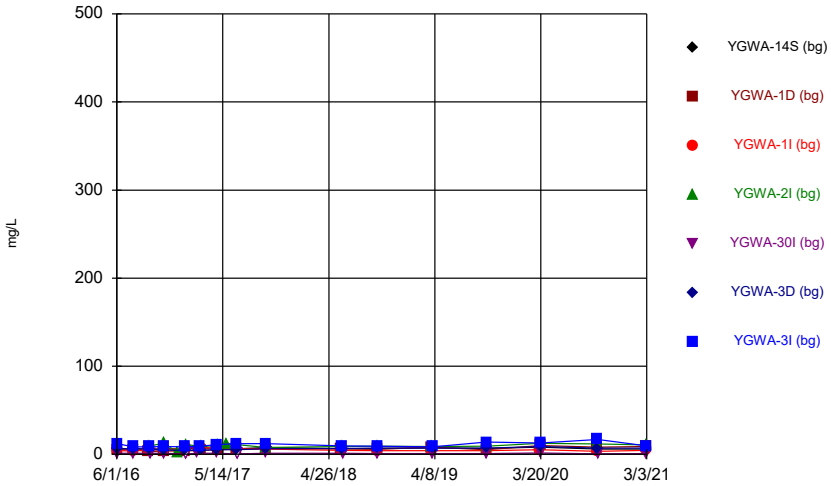
Time Series



Constituent: Selenium Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

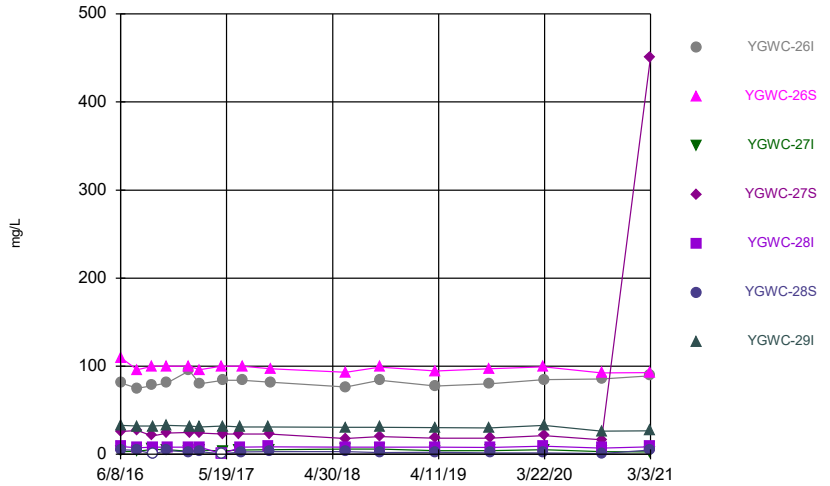
Time Series



Constituent: Sulfate Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

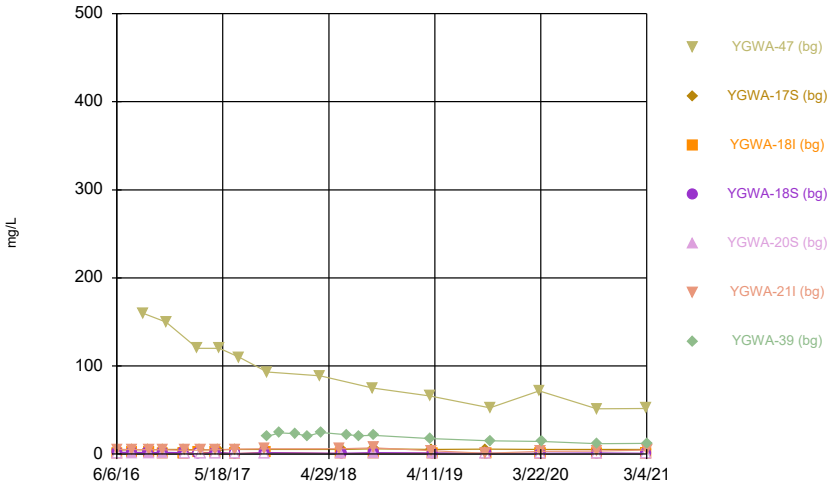
Time Series



Constituent: Sulfate Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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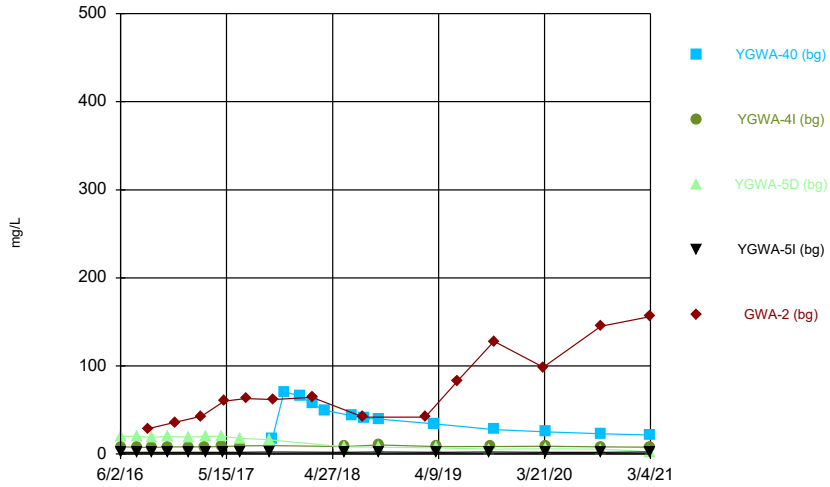
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

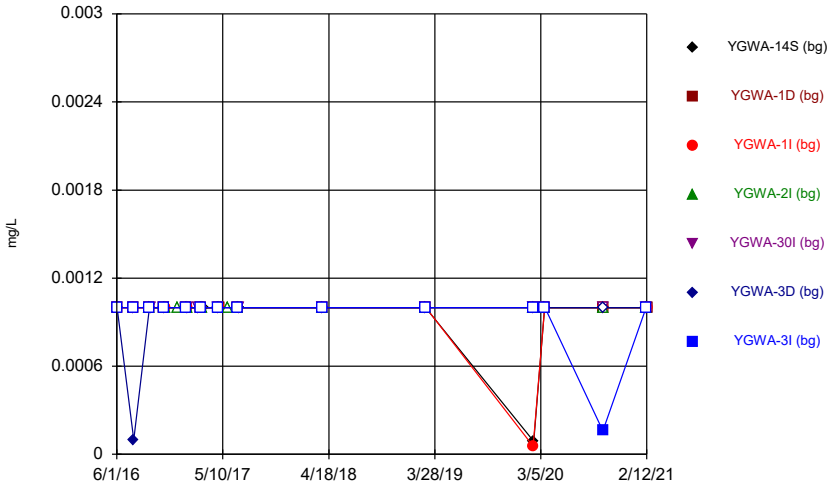
Time Series



Constituent: Sulfate Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

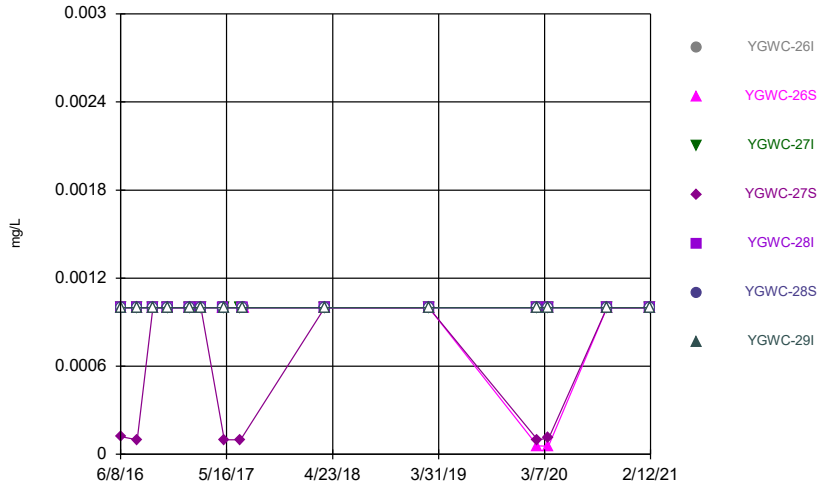
Time Series



Constituent: Thallium Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

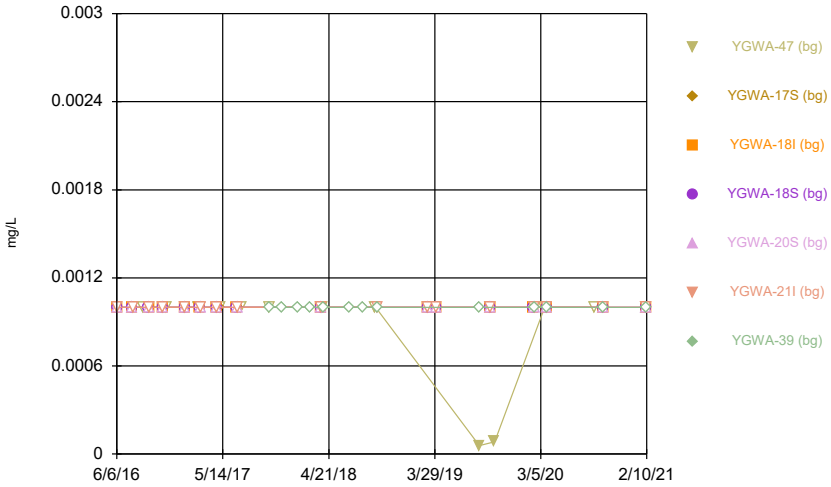
Time Series



Constituent: Thallium Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

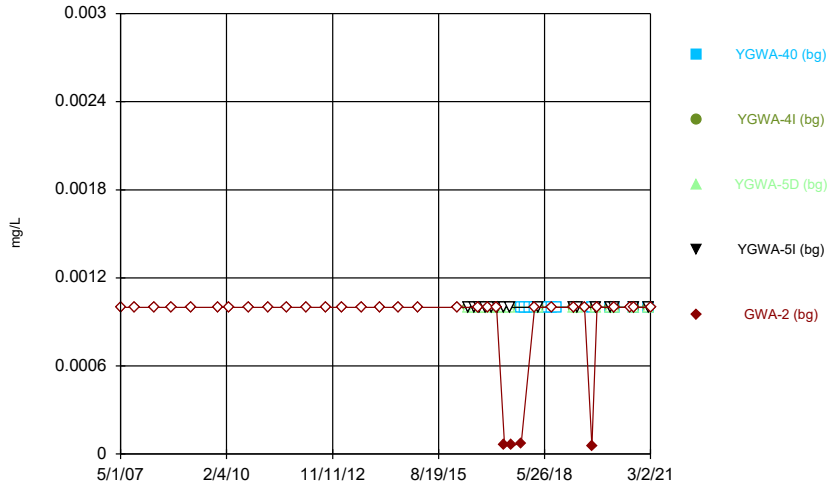
Time Series



Constituent: Thallium Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

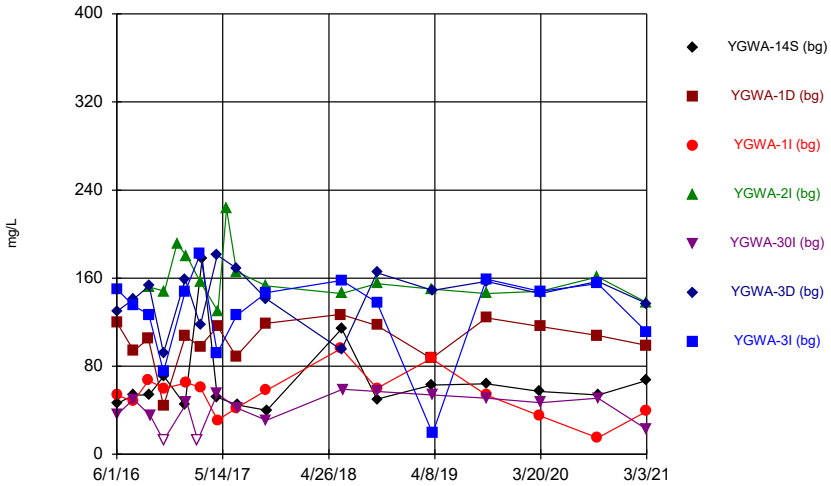
Time Series



Constituent: Thallium Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

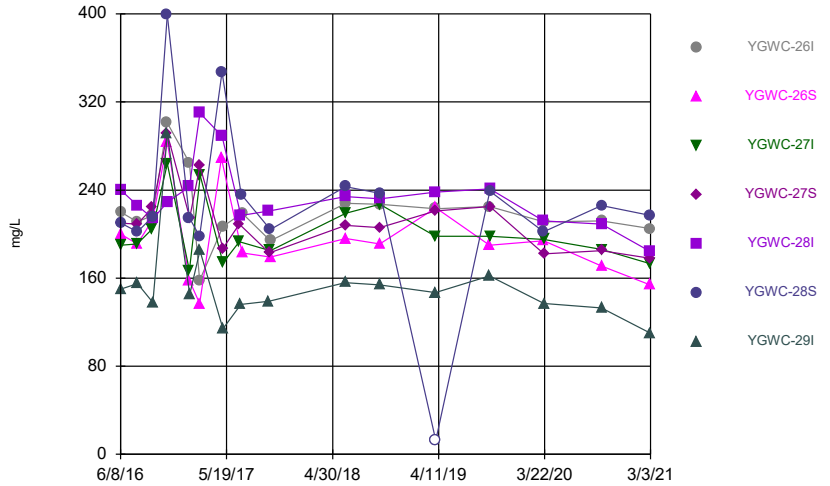
Time Series



Constituent: Total Dissolved Solids Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

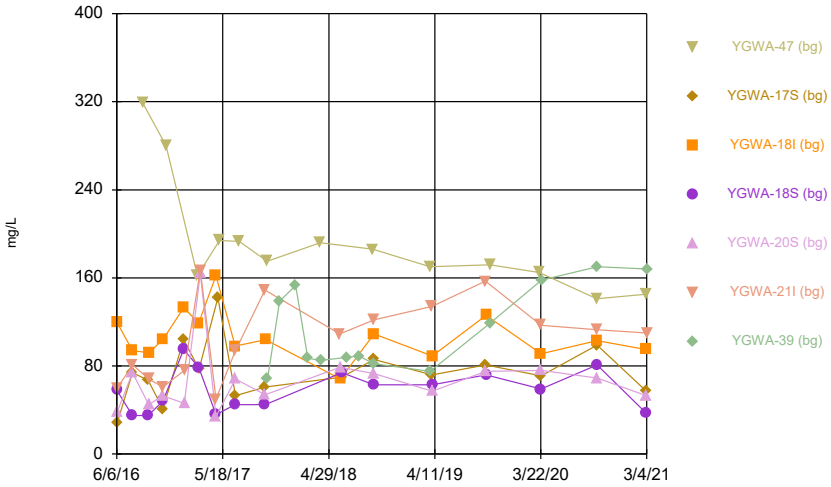
Time Series



Constituent: Total Dissolved Solids Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

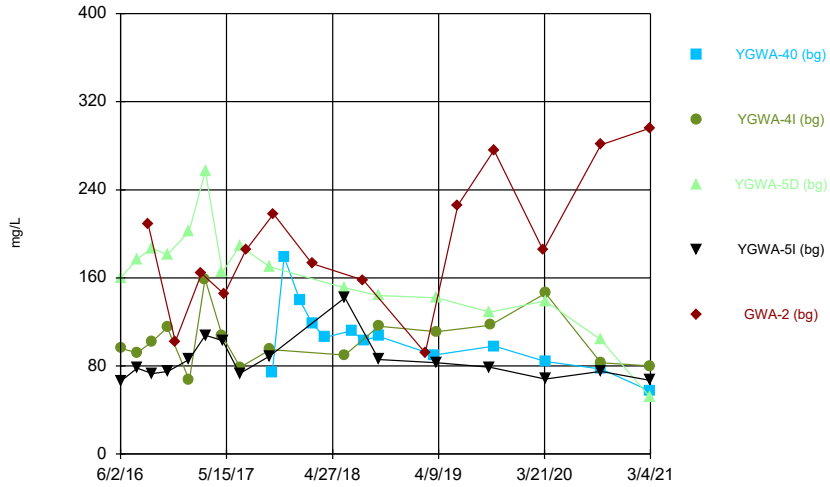
Time Series



Constituent: Total Dissolved Solids Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Time Series



Constituent: Total Dissolved Solids Analysis Run 5/10/2021 3:42 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/10/2021 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

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/10/2021 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

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/10/2021 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 5/10/2021 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

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/10/2021 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 5/10/2021 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				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/10/2021 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 5/10/2021 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

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/10/2021 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

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/10/2021 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 5/10/2021 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

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/10/2021 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 5/10/2021 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				

Time Series

Constituent: Barium (mg/L) Analysis Run 5/10/2021 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 5/10/2021 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)

Time Series

Constituent: Barium (mg/L) Analysis Run 5/10/2021 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

Time Series

Constituent: Barium (mg/L) Analysis Run 5/10/2021 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 5/10/2021 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

Time Series

Constituent: Barium (mg/L) Analysis Run 5/10/2021 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 5/10/2021 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				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/10/2021 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

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/10/2021 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

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/10/2021 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 5/10/2021 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)
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

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/10/2021 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					<0.0005
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 5/10/2021 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		<0.0005	<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)				

Time Series

Constituent: Boron (mg/L) Analysis Run 5/10/2021 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		<0.04	<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

Time Series

Constituent: Boron (mg/L) Analysis Run 5/10/2021 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	0.97	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

Time Series

Constituent: Boron (mg/L) Analysis Run 5/10/2021 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			<0.04	<0.04			
6/7/2016		<0.04			<0.04	<0.04	
7/27/2016		0.008 (J)	<0.04	0.0059 (J)	<0.04		
7/28/2016						<0.04	
8/30/2016	0.0166 (J)						
9/16/2016		0.0086 (J)		0.0079 (J)			
9/19/2016			<0.04		<0.04	<0.04	
11/2/2016					<0.04		
11/3/2016		0.0077 (J)	<0.04	0.0082 (J)		<0.04	
11/14/2016	0.0166 (J)						
1/11/2017		0.0092 (J)	<0.04	0.0096 (J)			
1/13/2017					<0.04	<0.04	
2/24/2017	0.0145 (J)						
3/1/2017			<0.04	<0.04			
3/2/2017		0.0095 (J)					
3/6/2017					<0.04	<0.04	
4/26/2017			<0.04	0.0091 (J)	<0.04	<0.04	
5/2/2017		<0.04					
5/8/2017	0.0141 (J)						
6/28/2017			<0.04	0.0079 (J)			
6/29/2017		0.0074 (J)			<0.04	<0.04	
7/11/2017	0.0131 (J)						
10/3/2017						<0.04	
10/4/2017		0.0077 (J)		0.009 (J)	<0.04		
10/5/2017			<0.04				
10/10/2017	0.0124 (J)						
10/11/2017							0.0135 (J)
11/20/2017							0.0251 (J)
1/11/2018							0.0255 (J)
2/20/2018							<0.04
4/2/2018	0.013 (J)						
4/3/2018							0.033 (J)
6/5/2018						0.0092 (J)	
6/6/2018					0.0049 (J)		
6/7/2018			<0.04				
6/11/2018		0.01 (J)		0.0093 (J)			
6/28/2018							0.053
8/7/2018							0.024 (J)
9/19/2018	0.012 (J)						
9/24/2018							0.028 (J)
9/25/2018		0.0096 (J)	0.0046 (J)	0.007 (J)	<0.04	0.0054 (J)	
3/27/2019	0.013 (J)						0.017 (J)
4/2/2019		0.0066 (J)				0.011 (J)	
4/3/2019			<0.04	0.0053 (J)	<0.04		
9/24/2019						0.018 (J)	
9/25/2019		0.0081 (J)			<0.04		
9/26/2019			0.0062 (J)	0.0072 (J)			
10/8/2019	0.012 (J)						
10/9/2019							0.017 (J)
3/17/2020	0.023 (J)						
3/24/2020		0.0092 (J)	0.0054 (J)	0.01 (J)	<0.04	0.016 (J)	
3/25/2020							0.043 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 5/10/2021 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)
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)

Time Series

Constituent: Boron (mg/L) Analysis Run 5/10/2021 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)
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				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/10/2021 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	<0.0005	<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

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/10/2021 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					0.00055 (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)

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/10/2021 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	0.0001 (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 5/10/2021 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					<0.0005	<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)

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/10/2021 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					<0.0005
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 5/10/2021 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		<0.0005	<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				

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/10/2021 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		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

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/10/2021 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	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

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/10/2021 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			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 5/10/2021 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)
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

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/10/2021 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)
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				

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/10/2021 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		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)

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/10/2021 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	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

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/10/2021 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			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 5/10/2021 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)
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

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/10/2021 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)
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				

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/10/2021 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		0.0035	<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

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/10/2021 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	<0.005	<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

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/10/2021 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			0.0012 (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 5/10/2021 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)
3/4/2021						<0.005	<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/10/2021 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					0.0029
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 5/10/2021 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)
8/21/2019	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				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/10/2021 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		<0.005	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 5/10/2021 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		<0.005	<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

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/10/2021 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	0.0032	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

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/10/2021 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	0.00061 (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 5/10/2021 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	0.0081	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)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/10/2021 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					0.0067
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 5/10/2021 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		0.00083 (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				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/10/2021 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		0.321 (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 5/10/2021 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	0.353 (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

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/10/2021 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	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

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/10/2021 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			0.0804 (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 5/10/2021 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)
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)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/10/2021 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)
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: Fluoride (mg/L) Analysis Run 5/10/2021 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		0.12 (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 5/10/2021 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)
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

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/10/2021 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	0.094 (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)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/10/2021 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			<0.1	<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 5/10/2021 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)
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

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/10/2021 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)
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 5/10/2021 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)
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				

Time Series

Constituent: Lead (mg/L) Analysis Run 5/10/2021 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		0.00056 (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

Time Series

Constituent: Lead (mg/L) Analysis Run 5/10/2021 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	<0.001	<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)

Time Series

Constituent: Lead (mg/L) Analysis Run 5/10/2021 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			<0.001	<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 5/10/2021 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)
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

Time Series

Constituent: Lead (mg/L) Analysis Run 5/10/2021 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					<0.001
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 5/10/2021 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					<0.001
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				

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/10/2021 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		0.015	<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 5/10/2021 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	<0.03			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)

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/10/2021 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	0.007	<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)

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/10/2021 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			0.0088	0.015			
6/7/2016		<0.03			<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 5/10/2021 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					<0.03	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)

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/10/2021 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)
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 5/10/2021 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)
3/4/2021	<0.03				

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/10/2021 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		<0.0002	<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				

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/10/2021 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	<0.0002	<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

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/10/2021 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			<0.0002	<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

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/10/2021 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					<0.0002
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 5/10/2021 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					<0.0002
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				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/10/2021 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		0.014 (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 5/10/2021 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	<0.01			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)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/10/2021 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	<0.01	<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

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/10/2021 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			<0.01	<0.01			
6/7/2016		<0.01			<0.01	<0.01	
7/27/2016		<0.01	<0.01	<0.01	<0.01		
7/28/2016						<0.01	
8/30/2016	<0.01						
9/16/2016		<0.01		<0.01			
9/19/2016			<0.01		<0.01	<0.01	
11/2/2016					<0.01		
11/3/2016		<0.01	<0.01	<0.01		<0.01	
11/14/2016	<0.01						
1/11/2017		<0.01	<0.01	<0.01			
1/13/2017					<0.01	<0.01	
2/24/2017	<0.01						
3/1/2017			<0.01	<0.01			
3/2/2017		<0.01					
3/6/2017					<0.01	0.0007 (J)	
4/26/2017			<0.01	<0.01	<0.01	0.0008 (J)	
5/2/2017		<0.01					
5/8/2017	<0.01						
6/28/2017			<0.01	<0.01			
6/29/2017		<0.01			<0.01	<0.01	
7/11/2017	<0.01						
10/10/2017	<0.01						
10/11/2017							0.0094 (J)
11/20/2017							0.0081 (J)
1/11/2018							0.0074 (J)
2/20/2018							<0.01
3/28/2018		<0.01	<0.01	<0.01			
3/29/2018					<0.01	<0.01	
4/2/2018	<0.01						
4/3/2018							0.006 (J)
6/28/2018							0.005 (J)
8/7/2018							0.0045 (J)
9/19/2018	<0.01						
9/24/2018							0.0035 (J)
3/5/2019		<0.01		<0.01	<0.01	<0.01	
3/6/2019			<0.01				
8/20/2019	<0.01						
8/21/2019							0.0021 (J)
10/8/2019	<0.01						
10/9/2019							0.0018 (J)
2/11/2020		<0.01	<0.01	<0.01			
2/12/2020					<0.01	<0.01	0.0025 (J)
3/17/2020	<0.01						
3/24/2020		<0.01	<0.01	<0.01	<0.01	<0.01	
3/25/2020							0.002 (J)
8/27/2020	<0.01						
9/22/2020	<0.01						
9/23/2020		<0.01	<0.01	<0.01			
9/24/2020					<0.01	<0.01	0.0016 (J)
2/9/2021			<0.01	<0.01	<0.01	<0.01	
2/10/2021							0.0013 (J)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/10/2021 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)
3/1/2021	<0.01						
3/3/2021		<0.01	<0.01	<0.01	<0.01		
3/4/2021						<0.01	0.0014 (J)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/10/2021 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)
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				

Time Series

Constituent: pH (S.U.) Analysis Run 5/10/2021 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		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 5/10/2021 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)
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

Time Series

Constituent: pH (S.U.) Analysis Run 5/10/2021 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	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

Time Series

Constituent: pH (S.U.) Analysis Run 5/10/2021 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			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 5/10/2021 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)
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

Time Series

Constituent: pH (S.U.) Analysis Run 5/10/2021 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)
8/27/2008					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 5/10/2021 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)
8/21/2019	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				

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/10/2021 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		<0.005	<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

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/10/2021 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	0.0016	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

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/10/2021 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		0.001 (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 5/10/2021 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)
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

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/10/2021 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	<0.005	<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 5/10/2021 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					<0.005
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				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/10/2021 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		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

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/10/2021 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	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

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/10/2021 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			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 5/10/2021 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)
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

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/10/2021 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)
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				

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/10/2021 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		<0.001	<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				

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/10/2021 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	<0.001	<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

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/10/2021 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			<0.001	<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 5/10/2021 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)
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

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/10/2021 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					<0.001
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 5/10/2021 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)
8/21/2019	<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

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/10/2021 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		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

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/10/2021 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	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

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/10/2021 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			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 5/10/2021 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)
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

Time Series

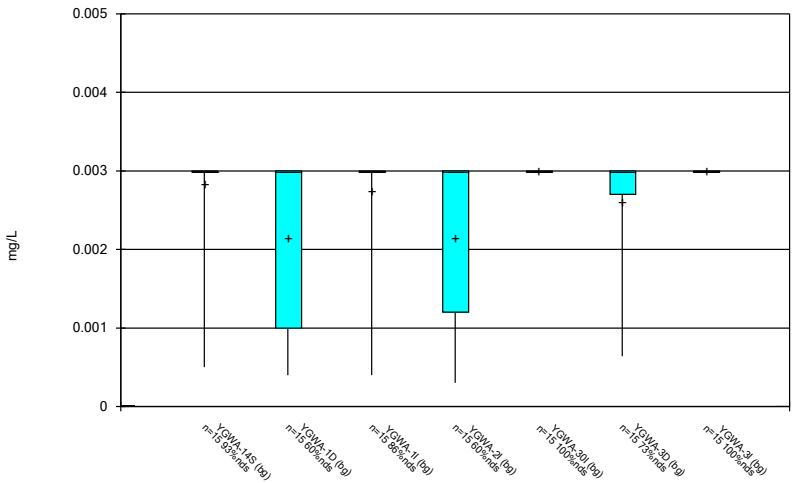
Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/10/2021 3:43 PM

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)
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				

FIGURE B.

Box & Whiskers Plot

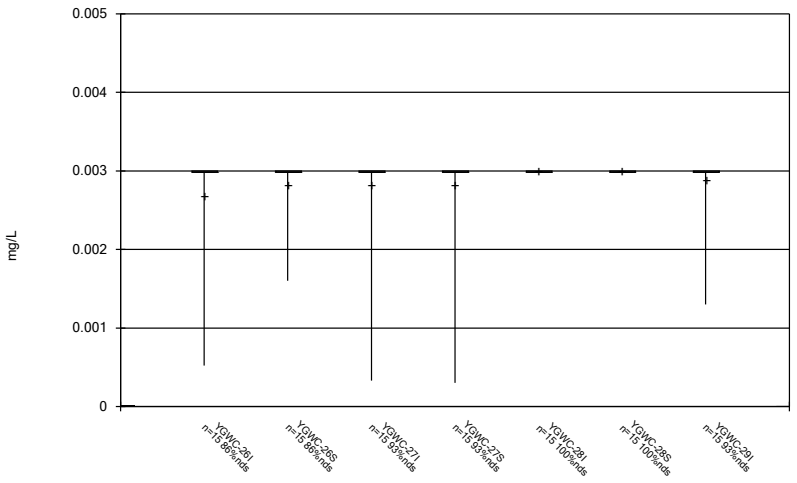


Constituent: Antimony Analysis Run 5/10/2021 3:45 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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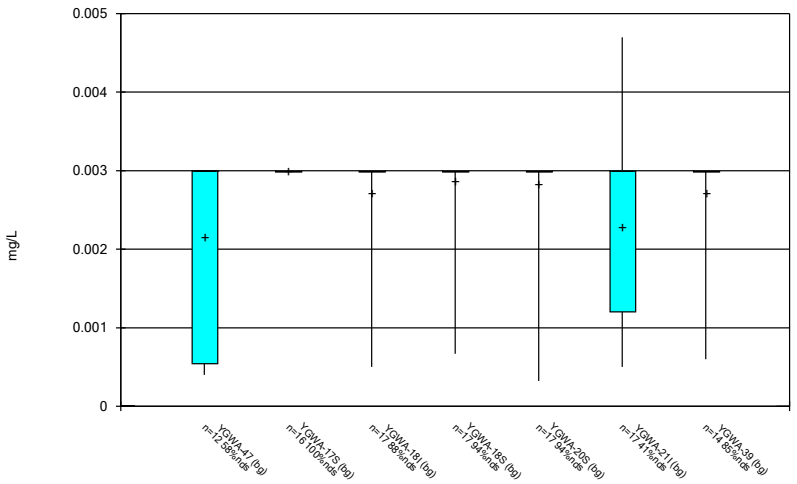
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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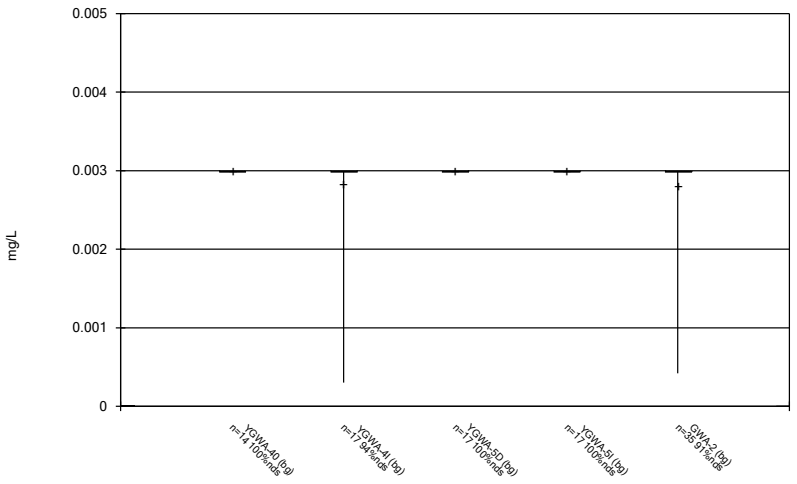
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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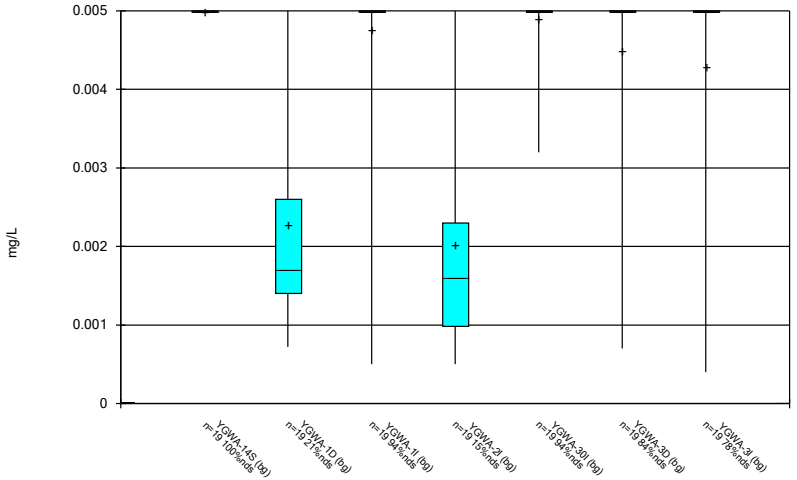
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot

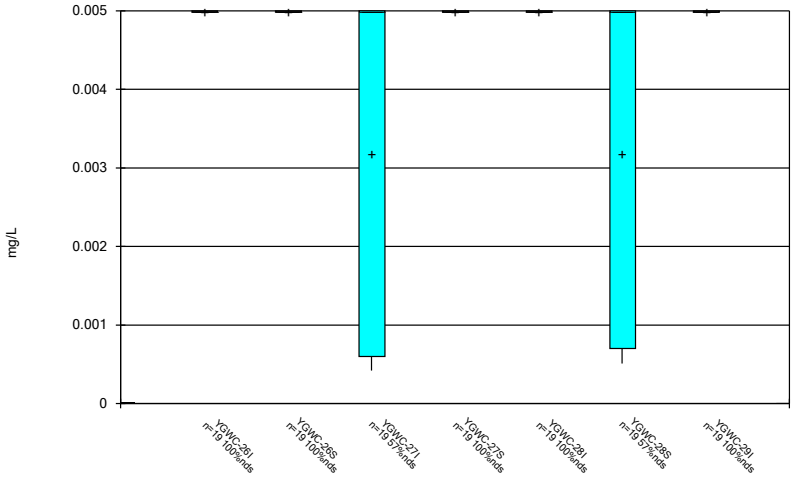


Constituent: Arsenic Analysis Run 5/10/2021 3:45 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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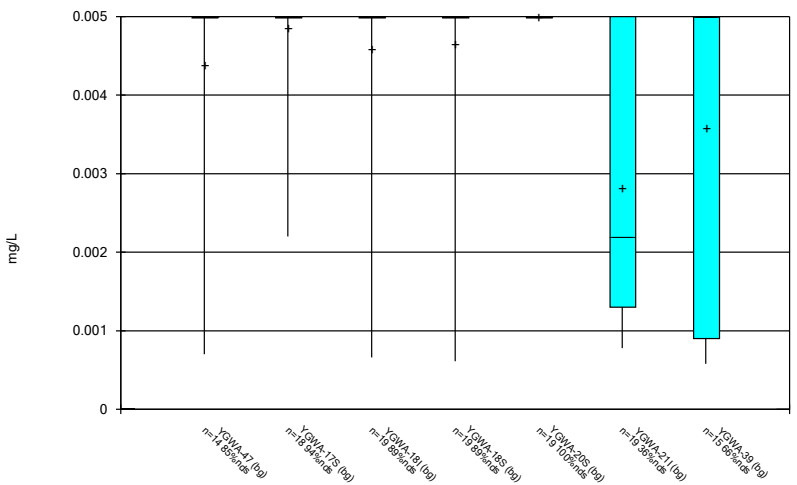
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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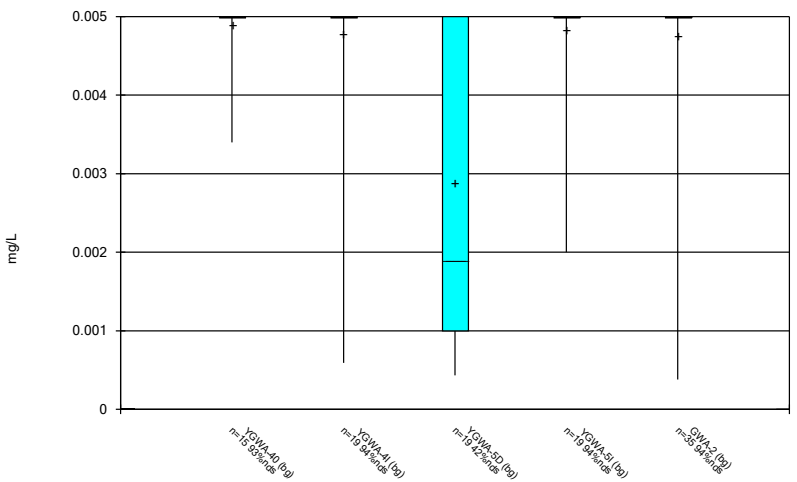
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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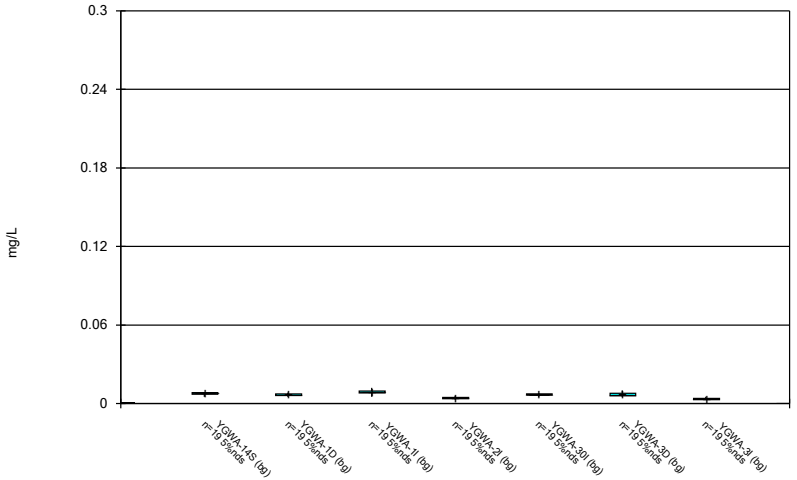
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



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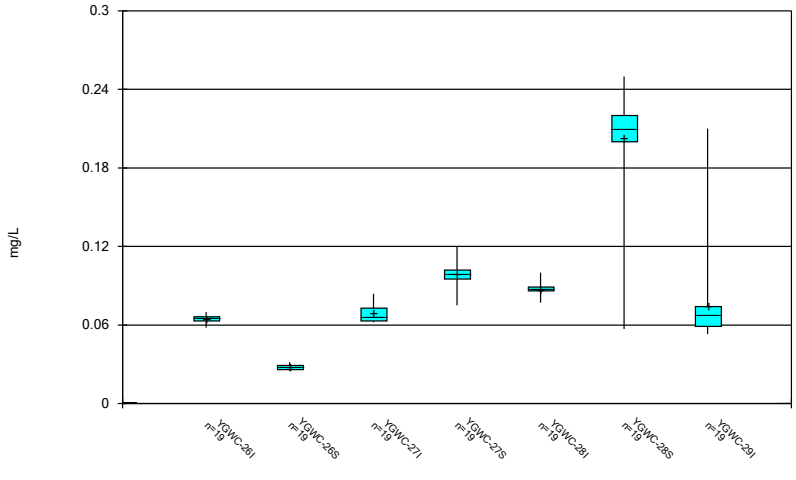
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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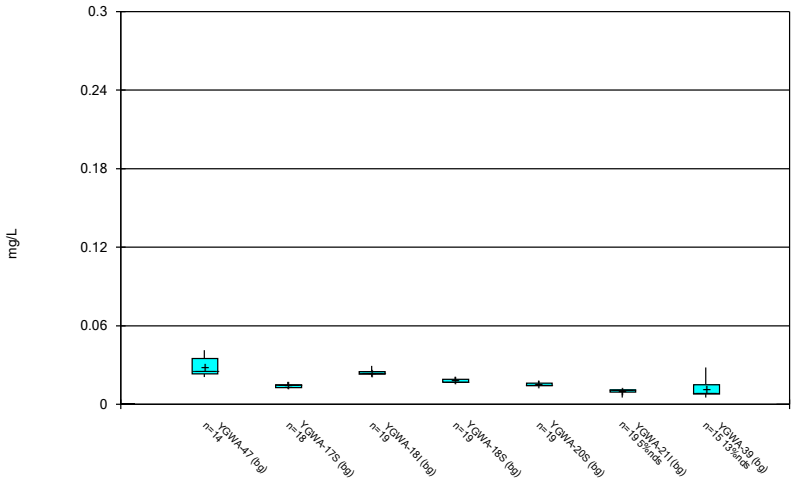
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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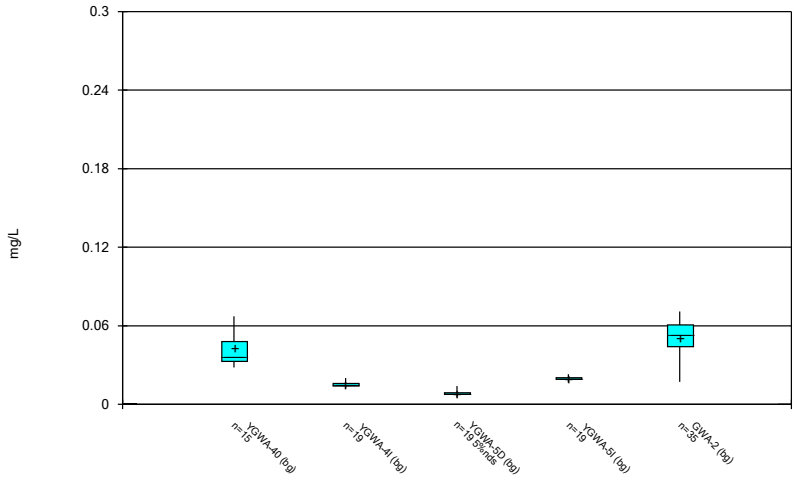
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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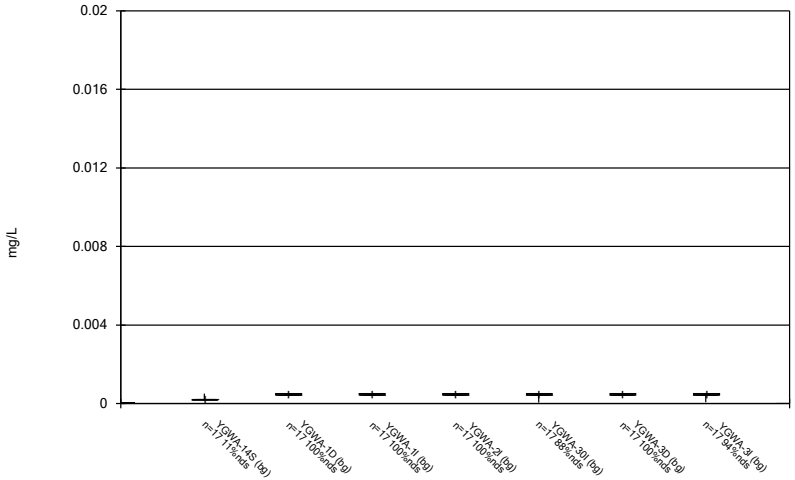
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot

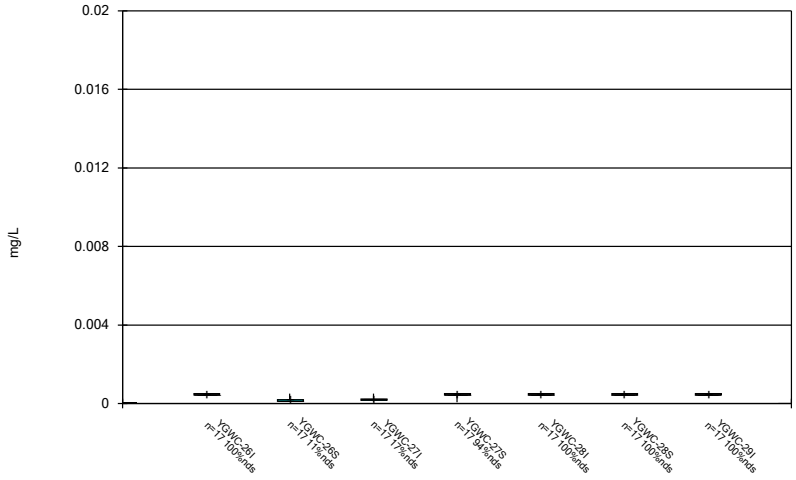


Constituent: Beryllium Analysis Run 5/10/2021 3:46 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

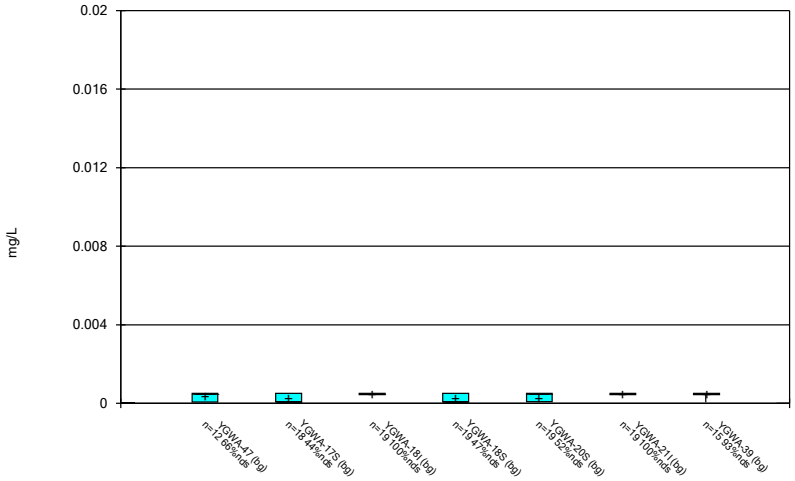


Constituent: Beryllium Analysis Run 5/10/2021 3:46 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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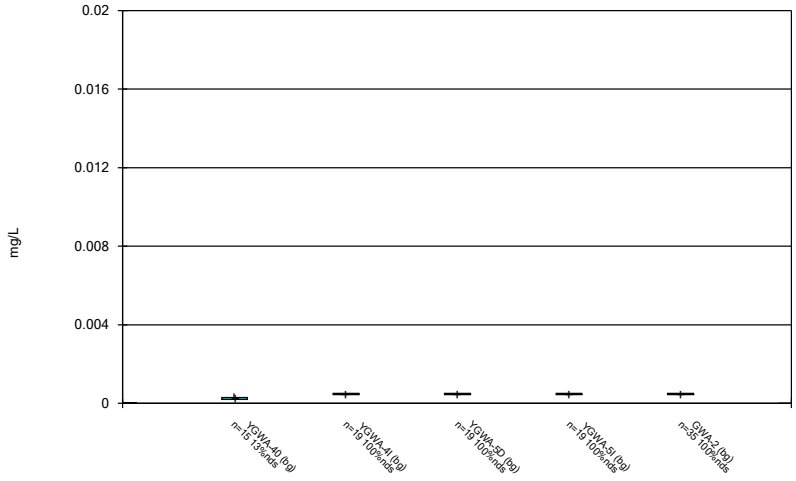
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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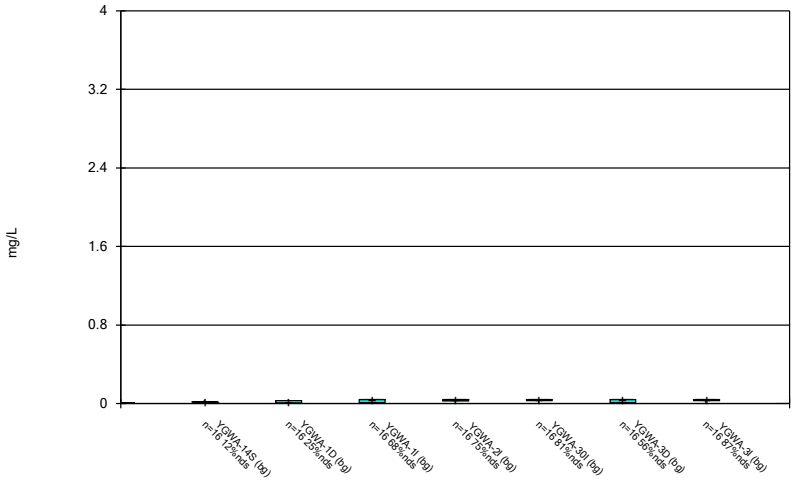
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot

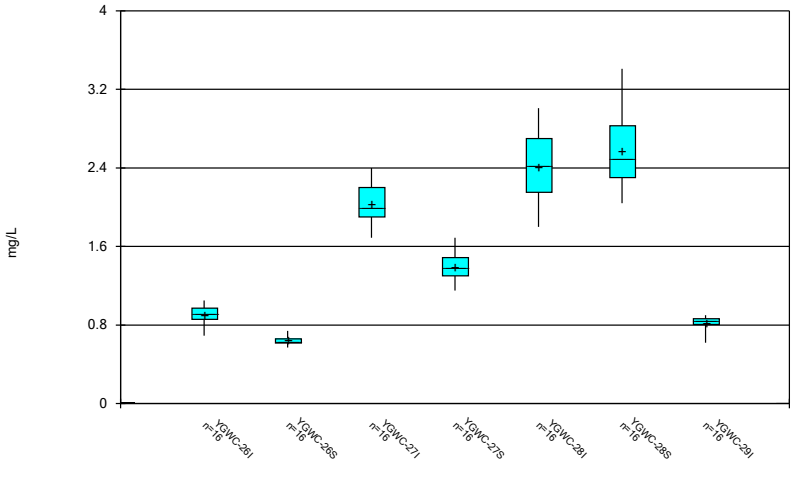


Constituent: Boron Analysis Run 5/10/2021 3:46 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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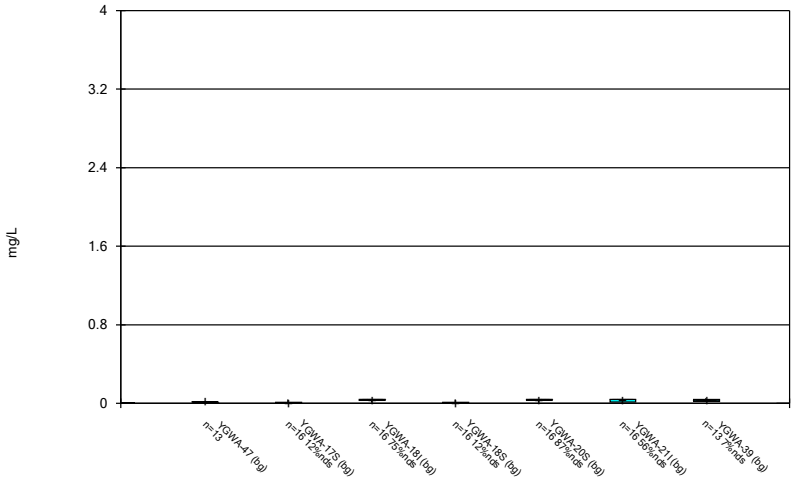
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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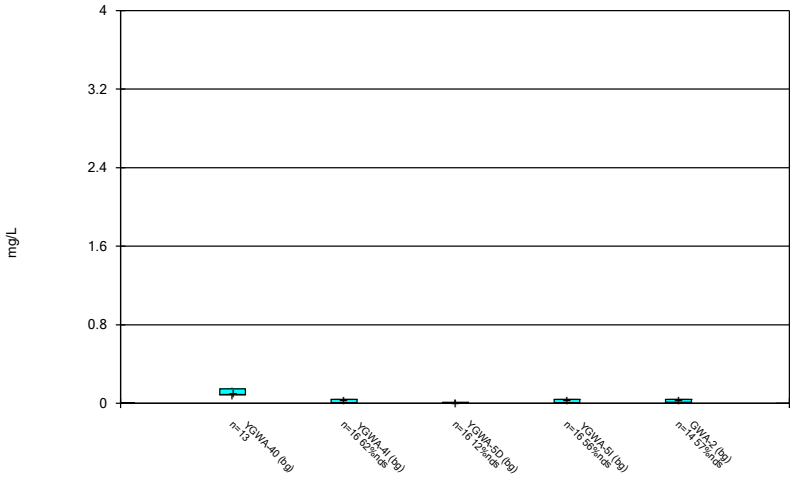
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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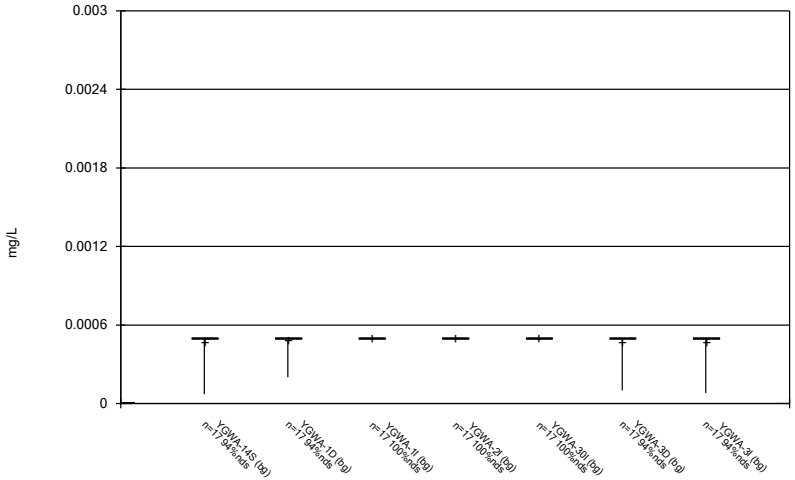
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot

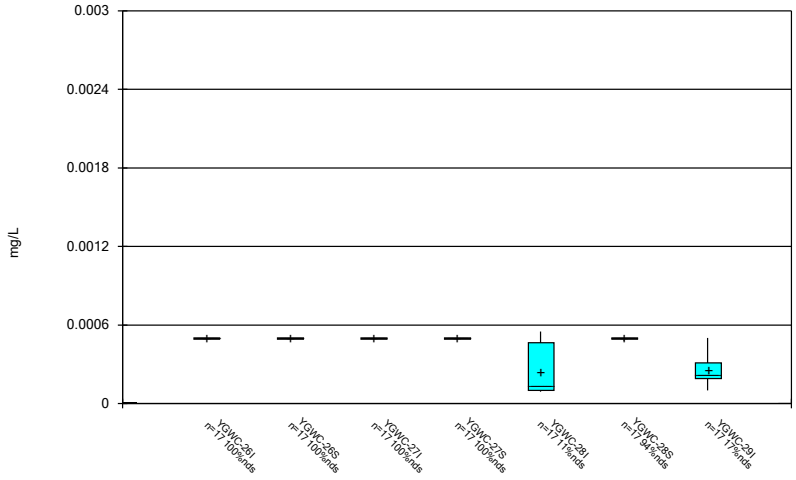


Constituent: Cadmium Analysis Run 5/10/2021 3:46 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

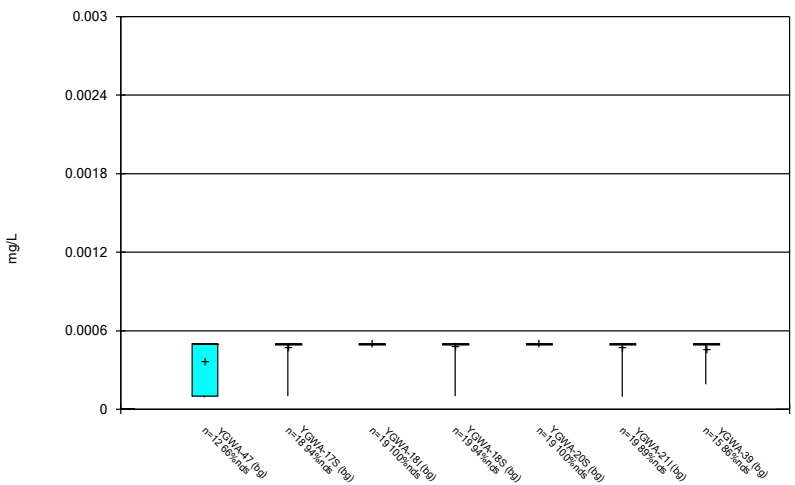


Constituent: Cadmium Analysis Run 5/10/2021 3:46 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

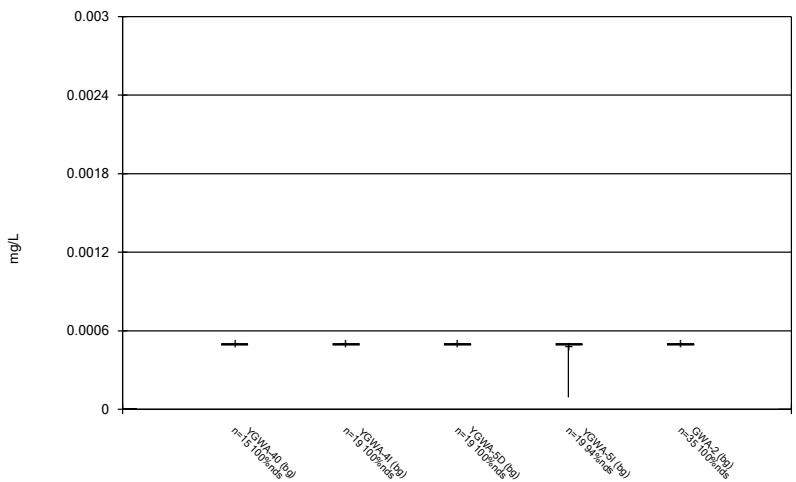


Constituent: Cadmium Analysis Run 5/10/2021 3:46 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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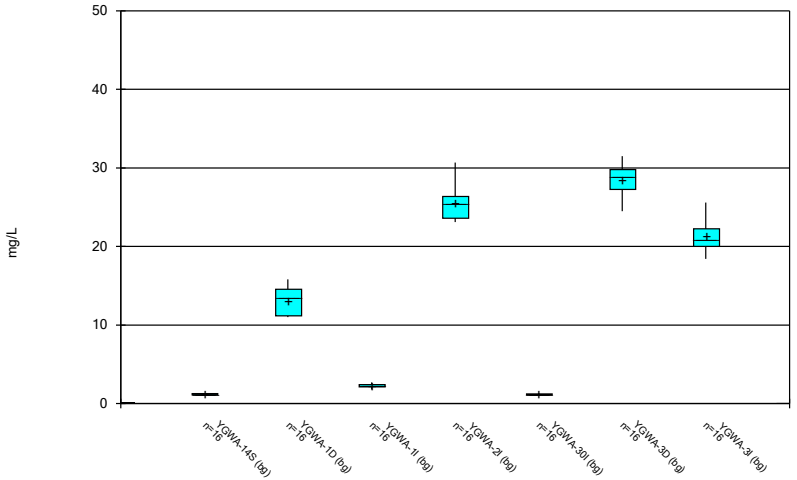
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot

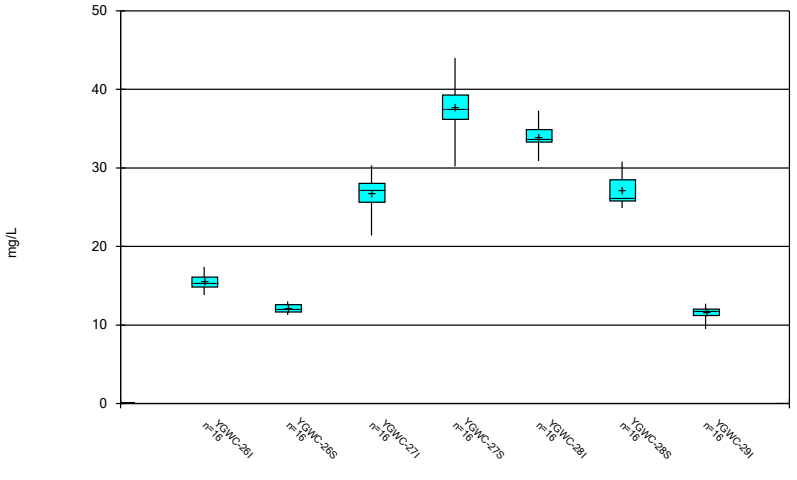


Constituent: Calcium Analysis Run 5/10/2021 3:46 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

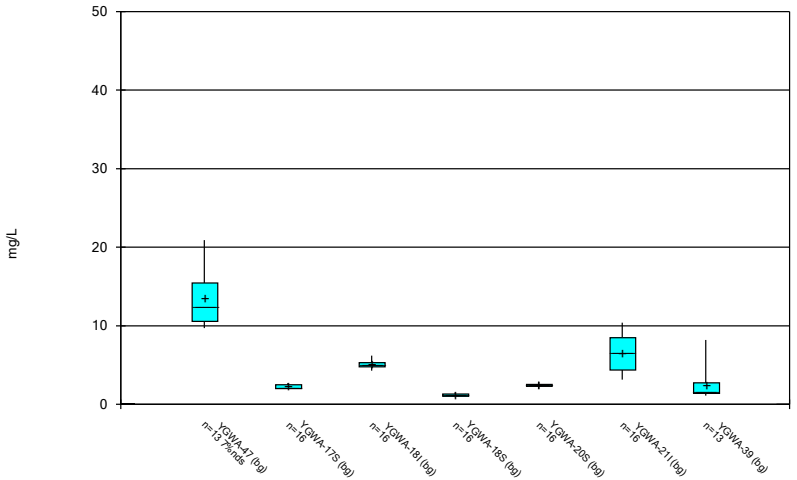


Constituent: Calcium Analysis Run 5/10/2021 3:46 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot

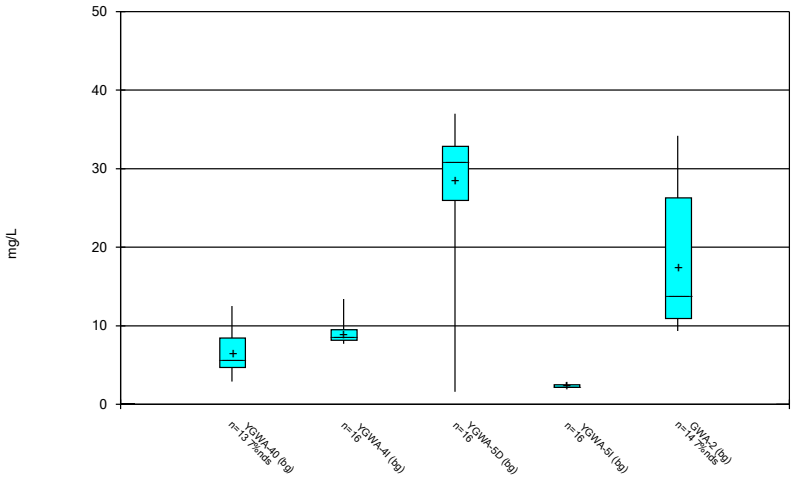


Constituent: Calcium Analysis Run 5/10/2021 3:46 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

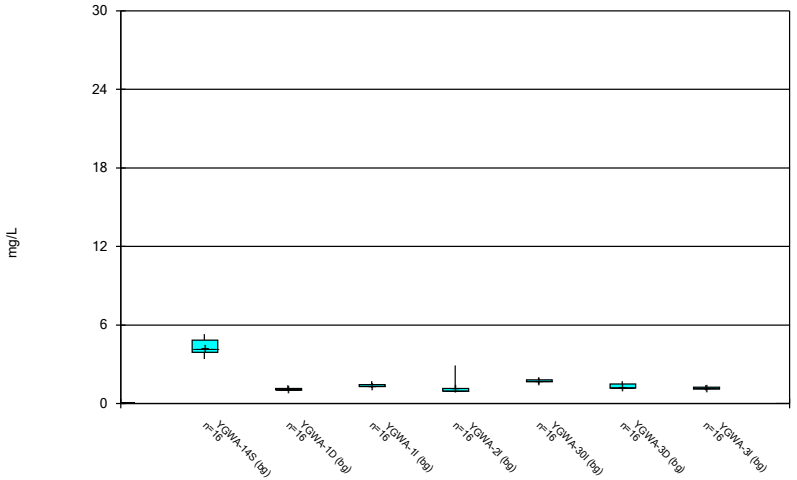
Box & Whiskers Plot



Constituent: Calcium Analysis Run 5/10/2021 3:46 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



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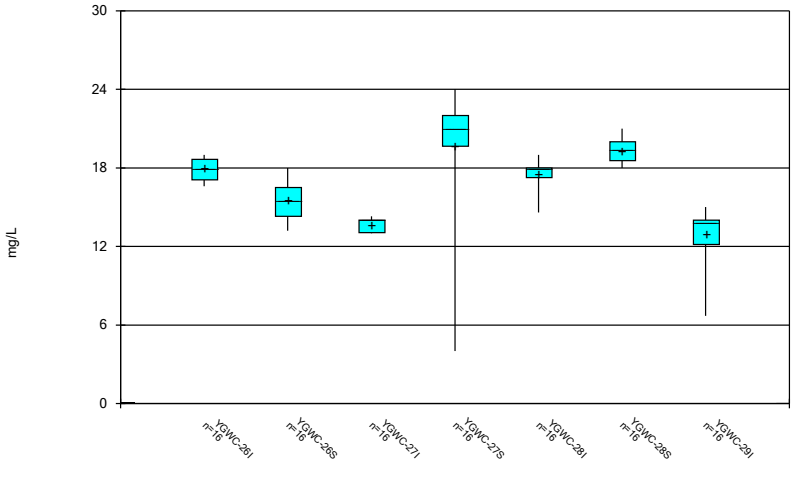
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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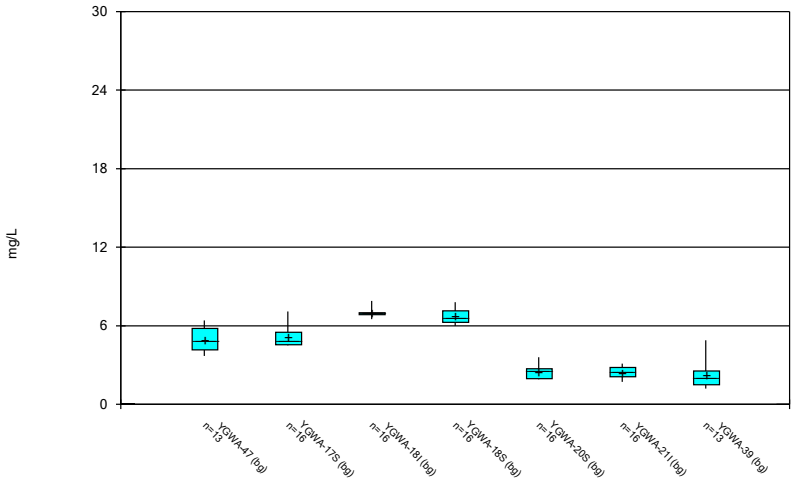
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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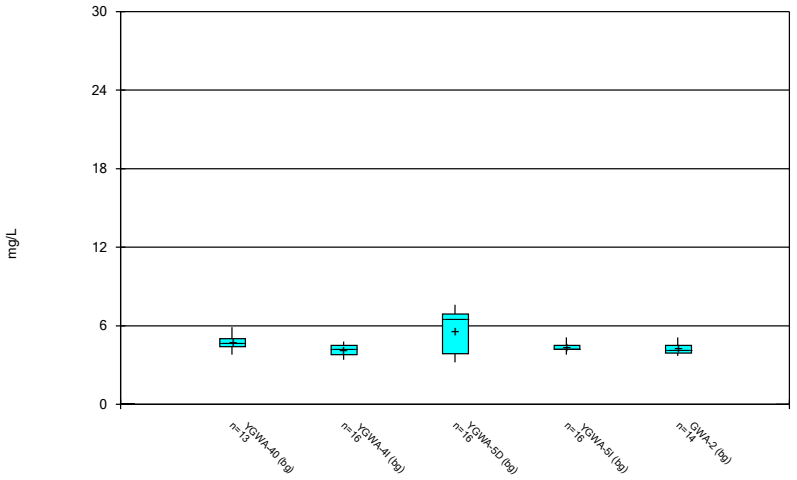
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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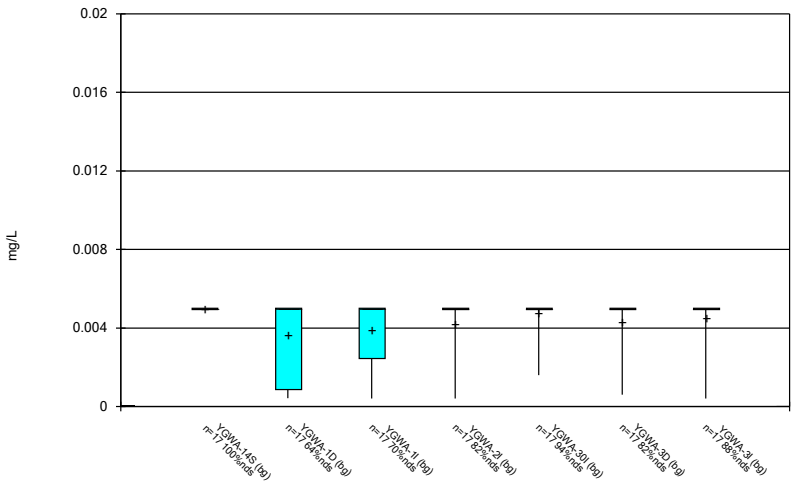
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



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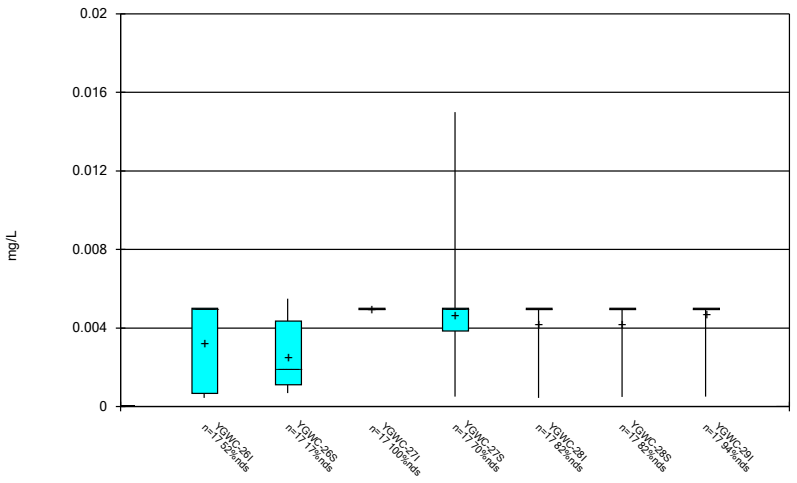
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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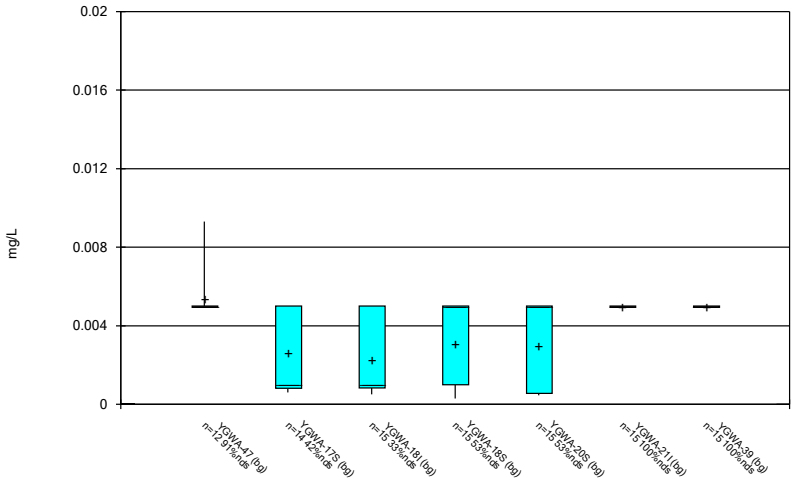
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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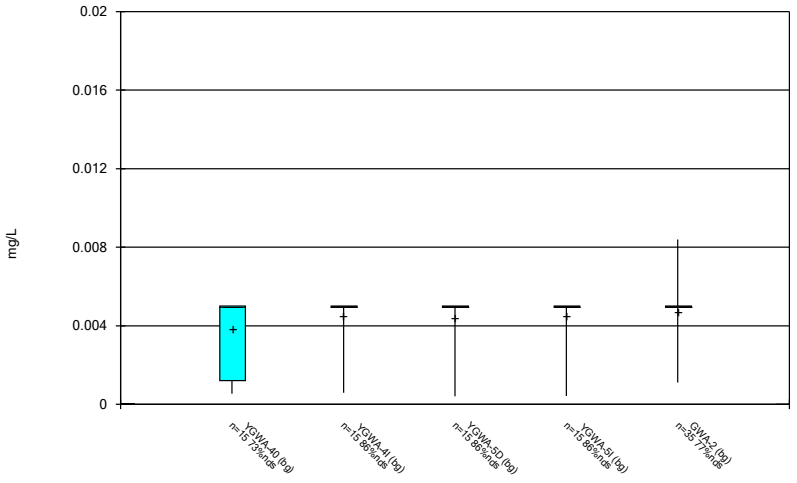
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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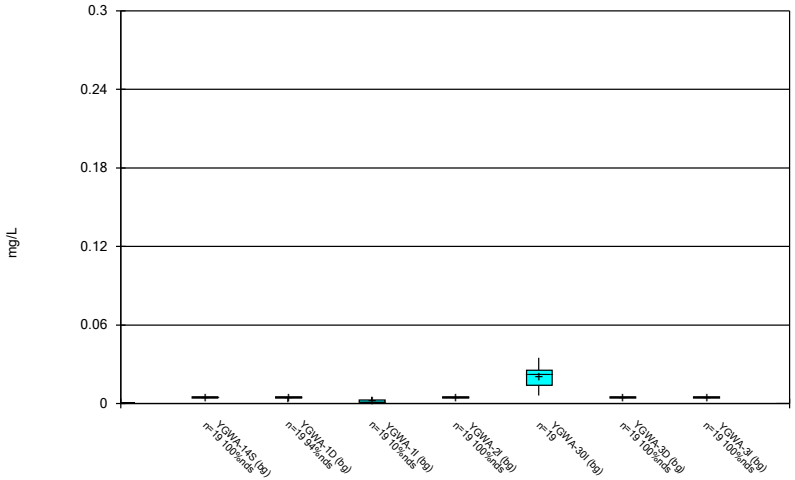
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



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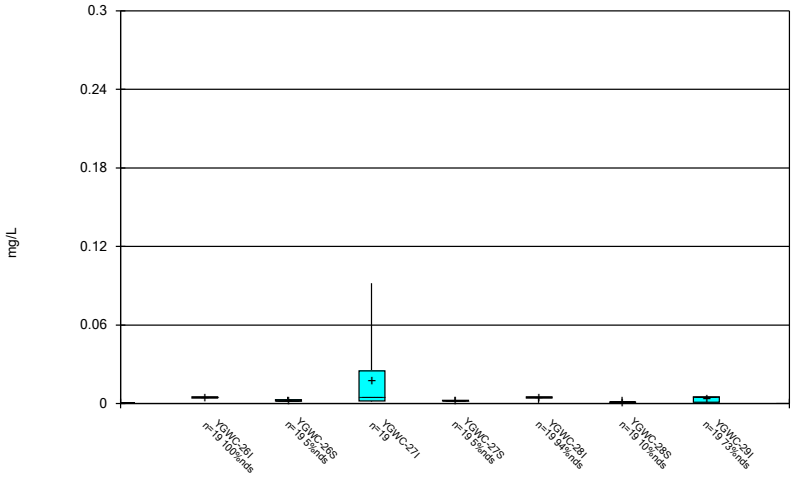
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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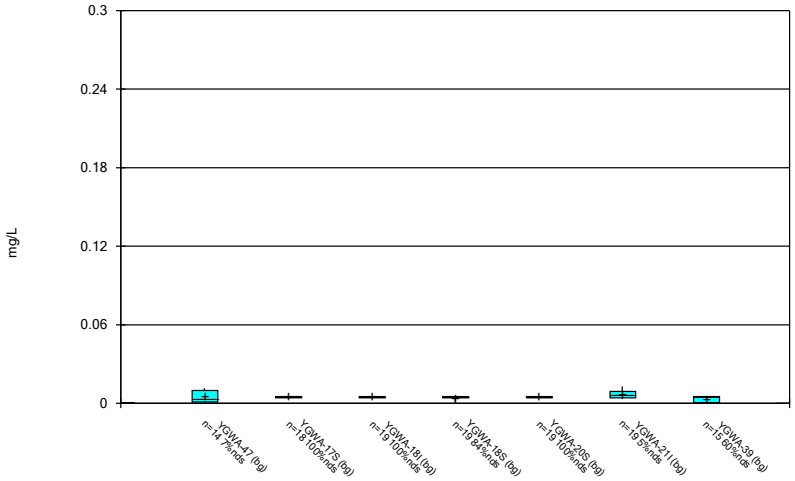
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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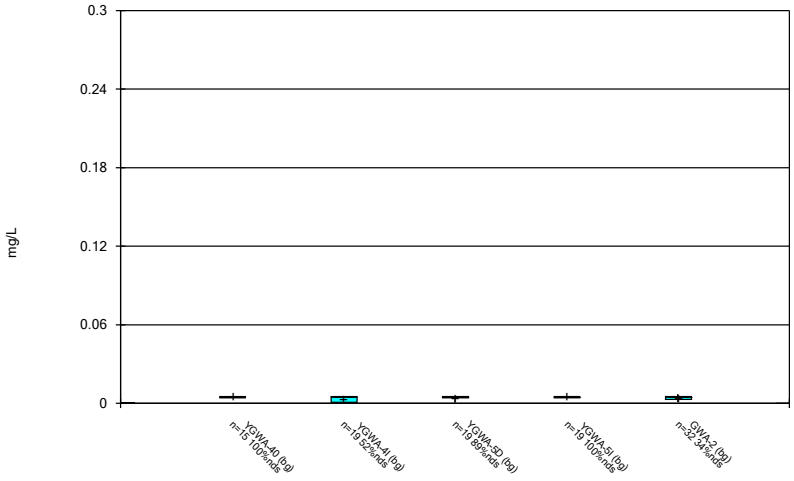
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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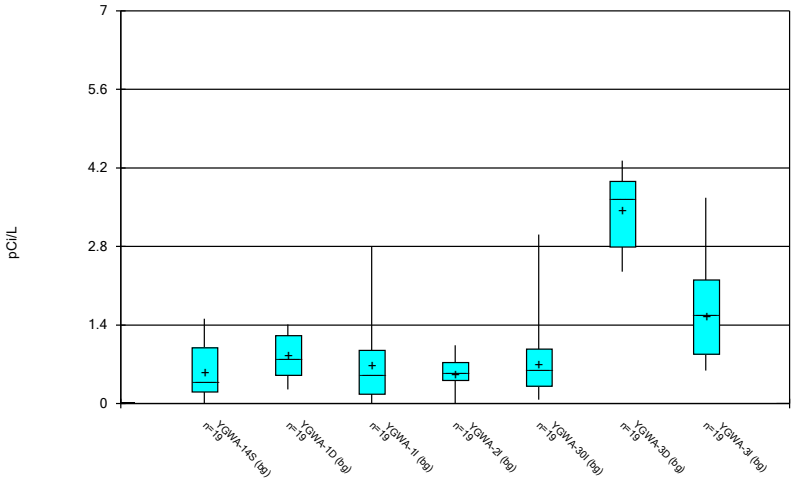
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

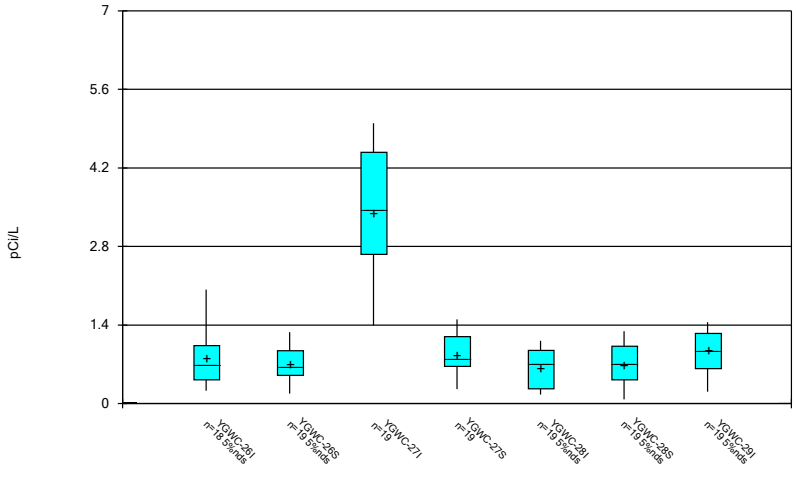
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 5/10/2021 3:46 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

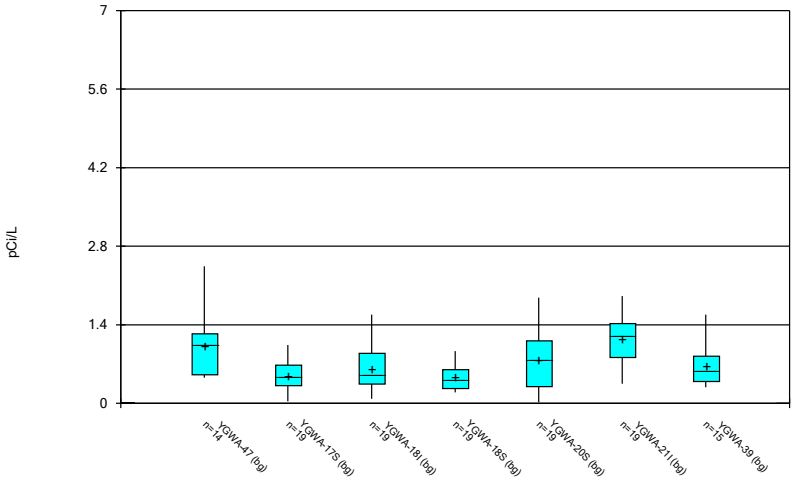
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 5/10/2021 3:46 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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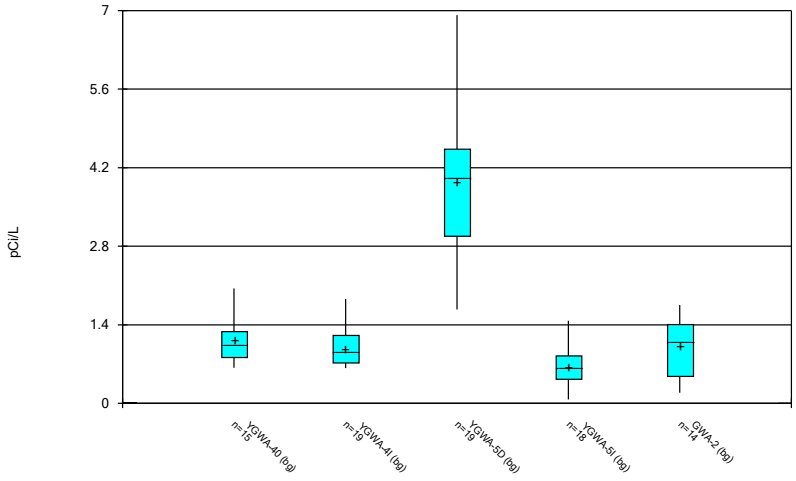
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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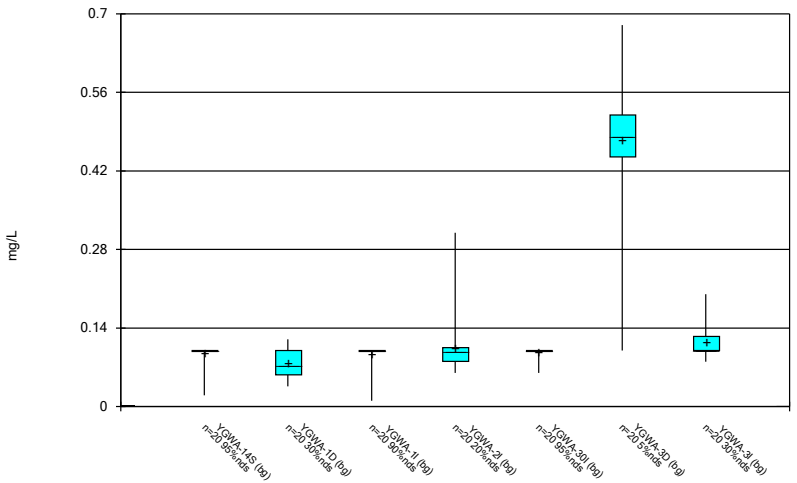
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot

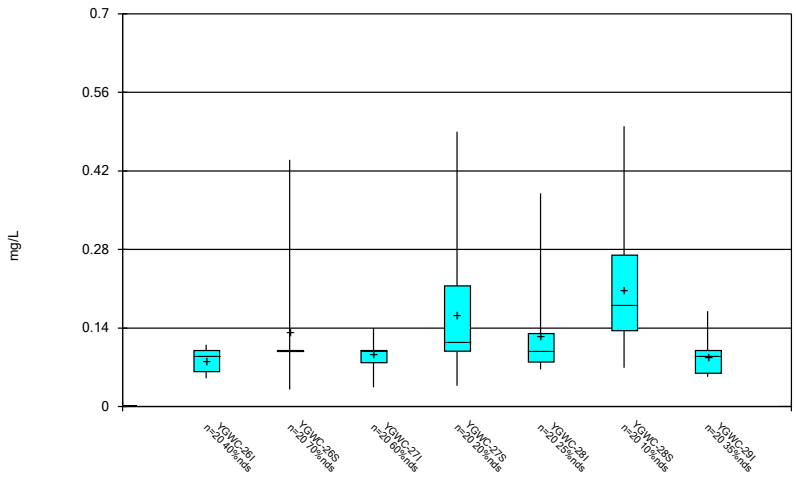


Constituent: Fluoride Analysis Run 5/10/2021 3:46 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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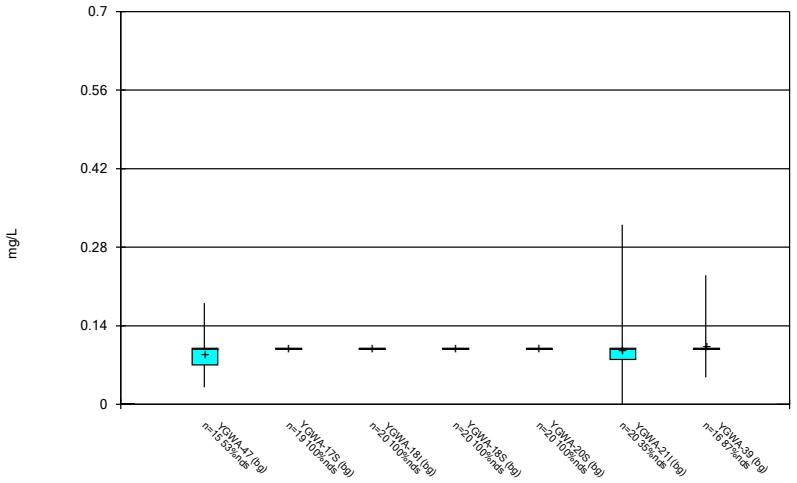
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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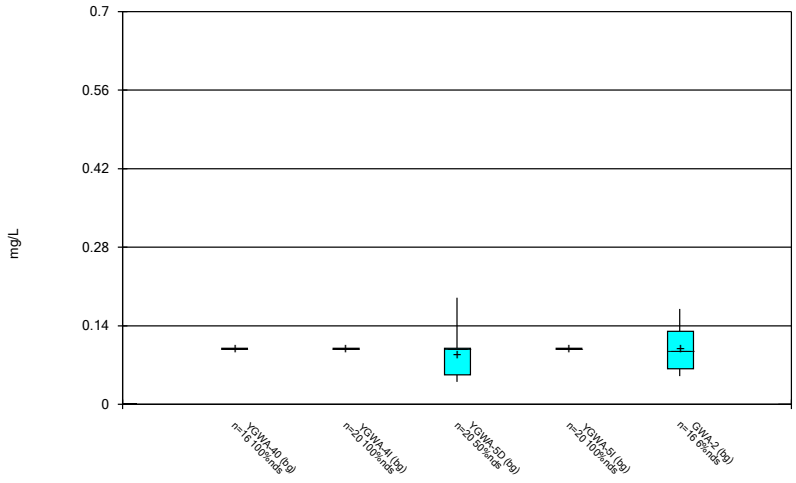
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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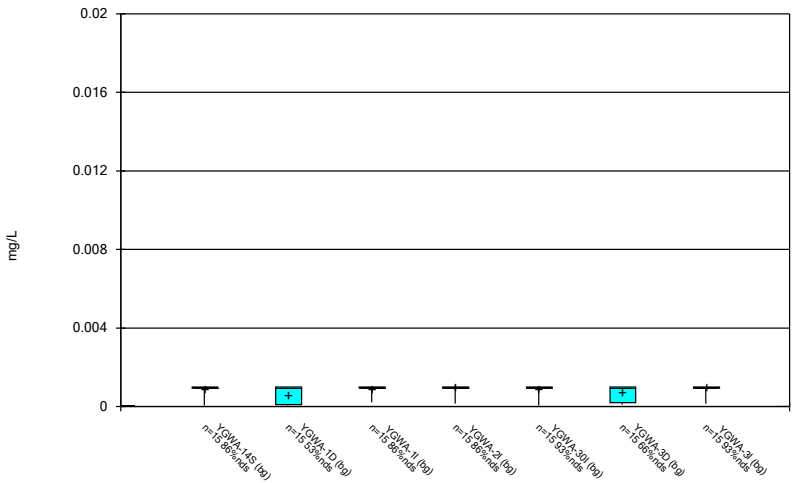
Box & Whiskers Plot



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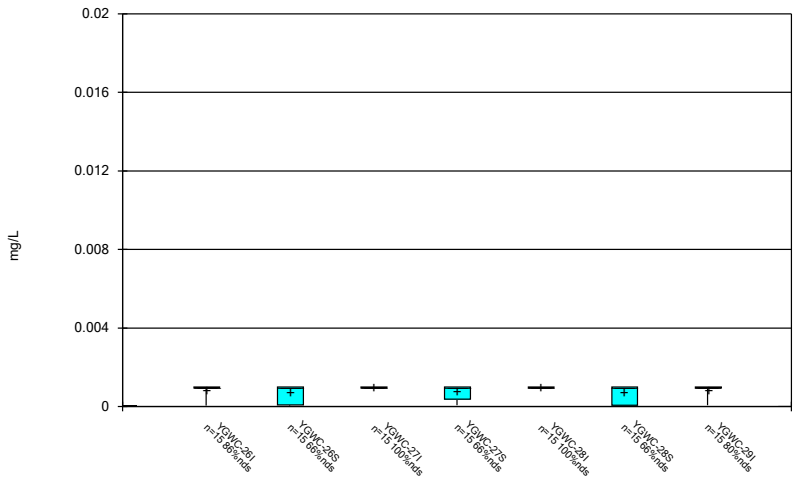
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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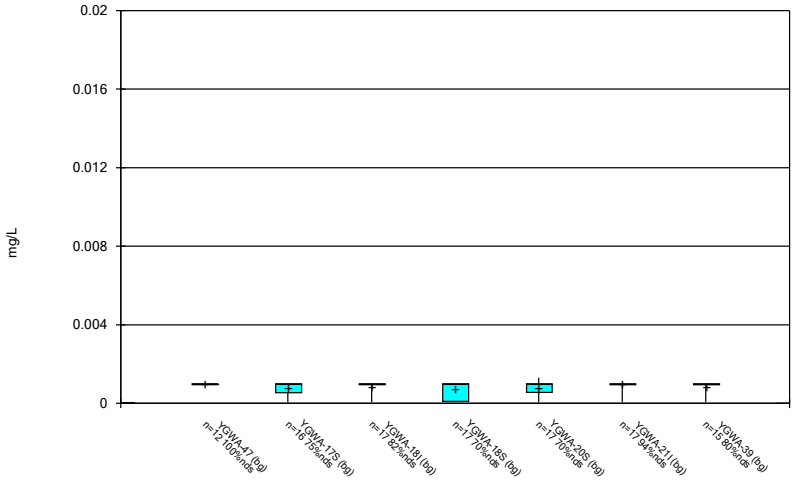
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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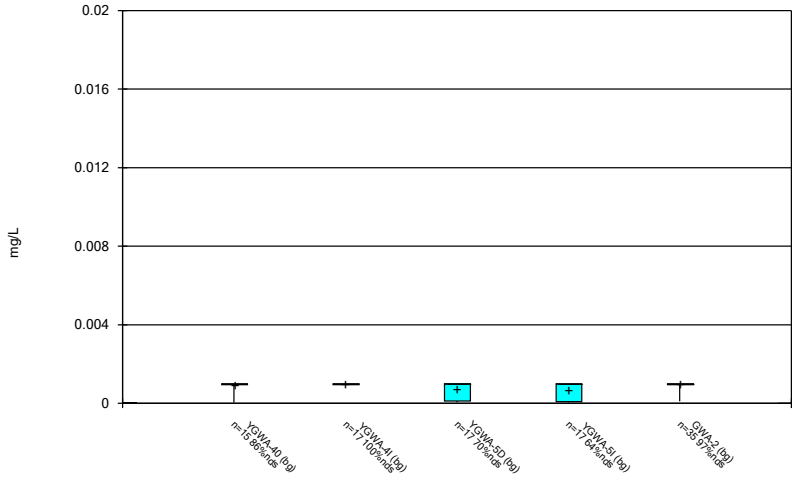
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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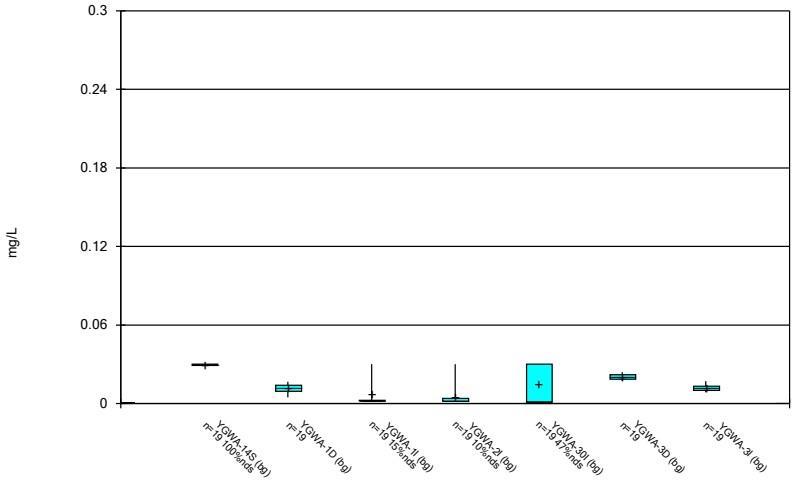
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



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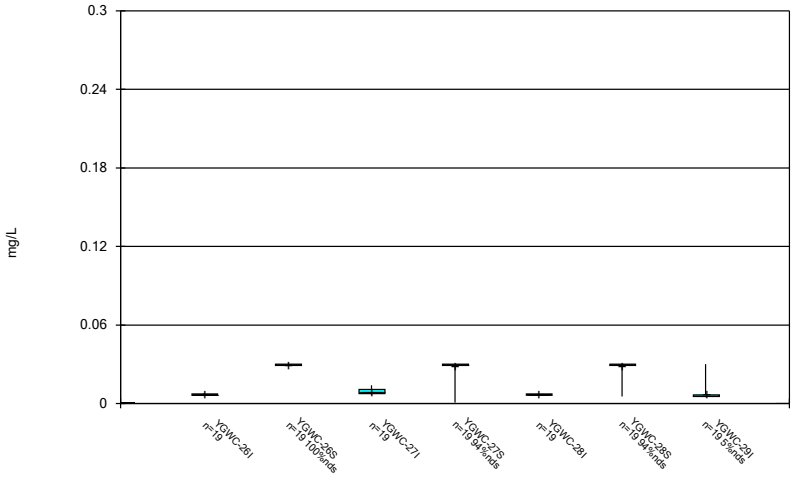
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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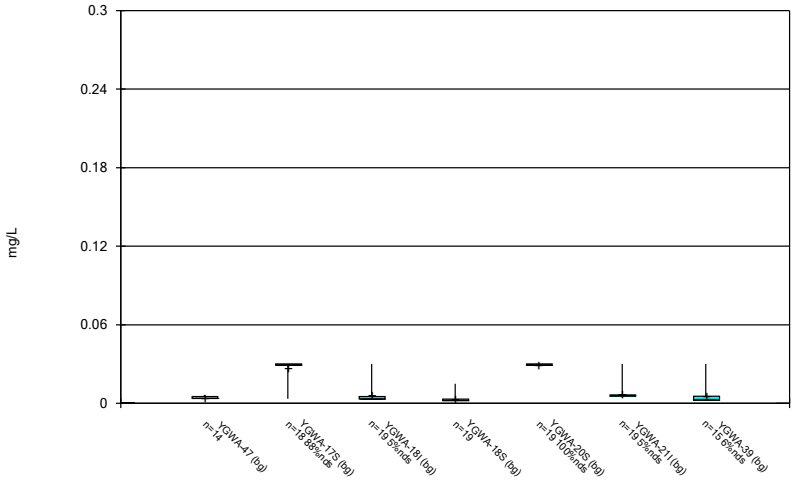
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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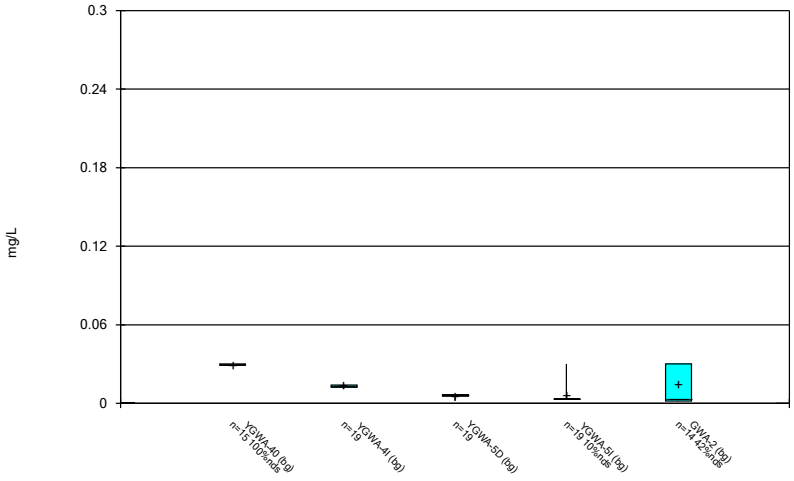
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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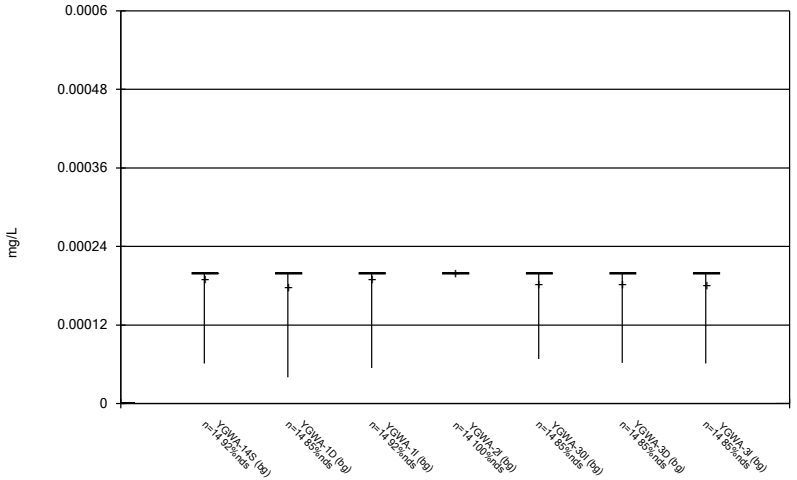
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot

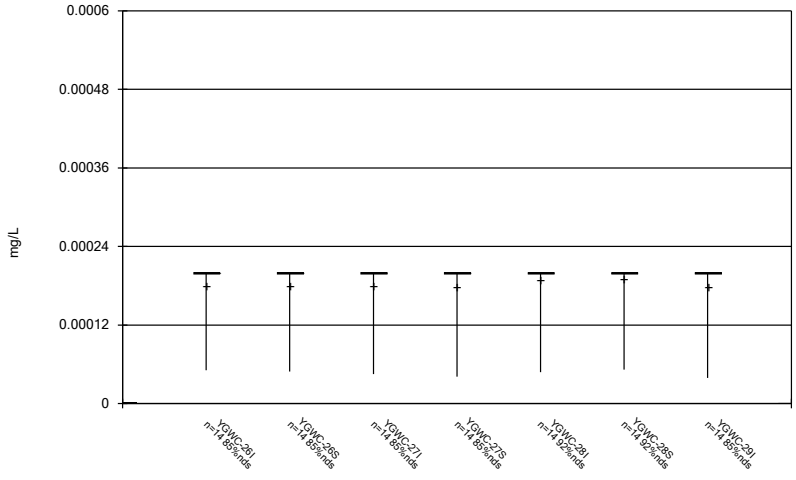


Constituent: Mercury Analysis Run 5/10/2021 3:46 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Mercury Analysis Run 5/10/2021 3:46 PM

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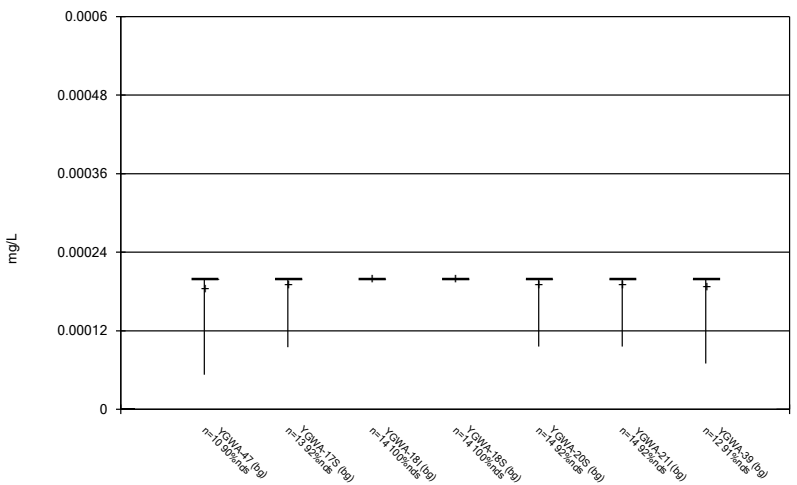
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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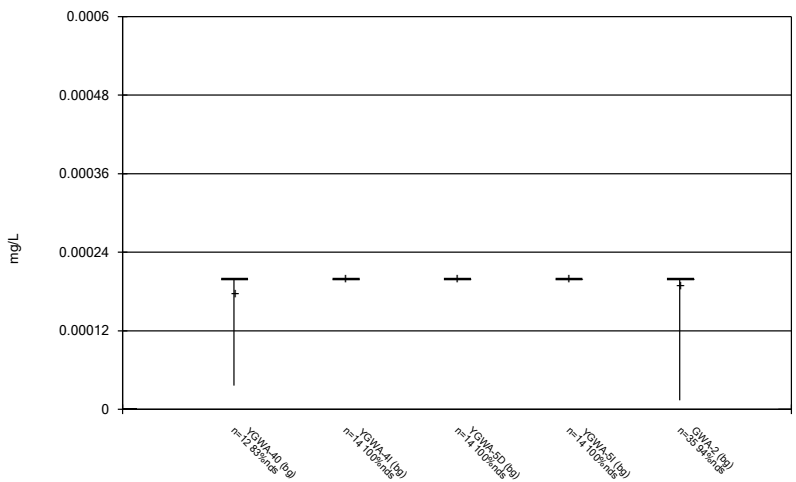
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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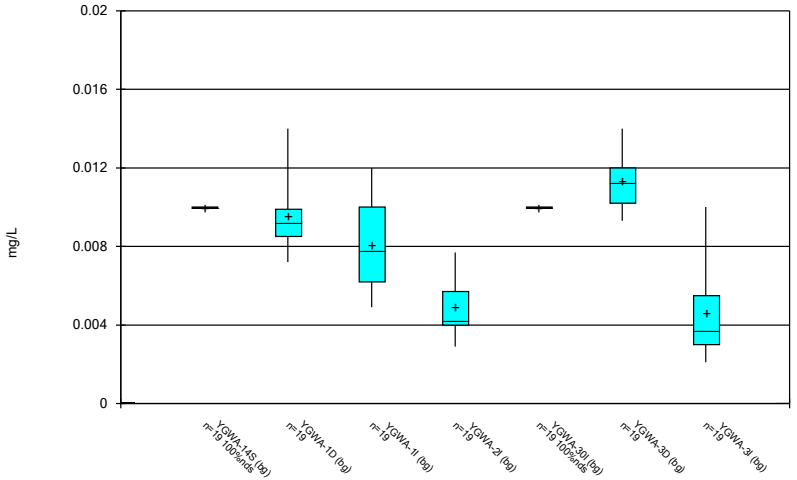
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



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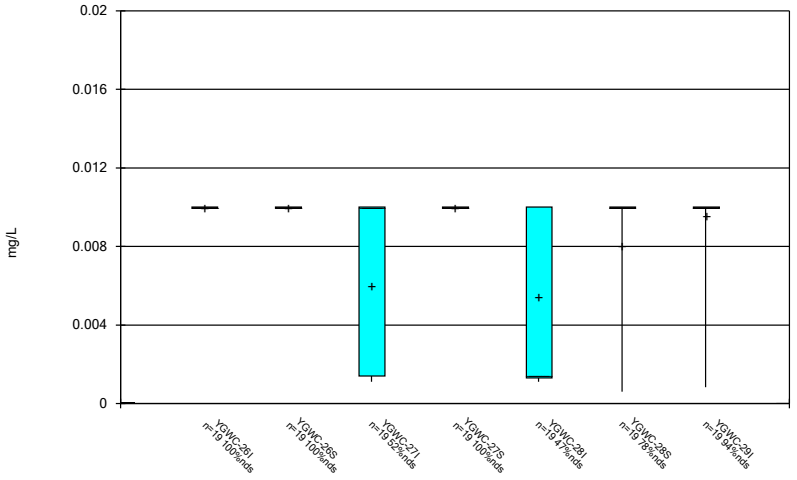
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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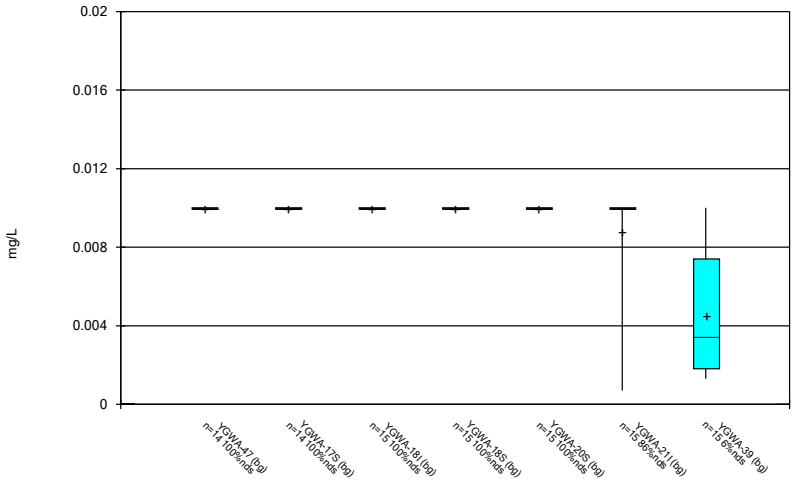
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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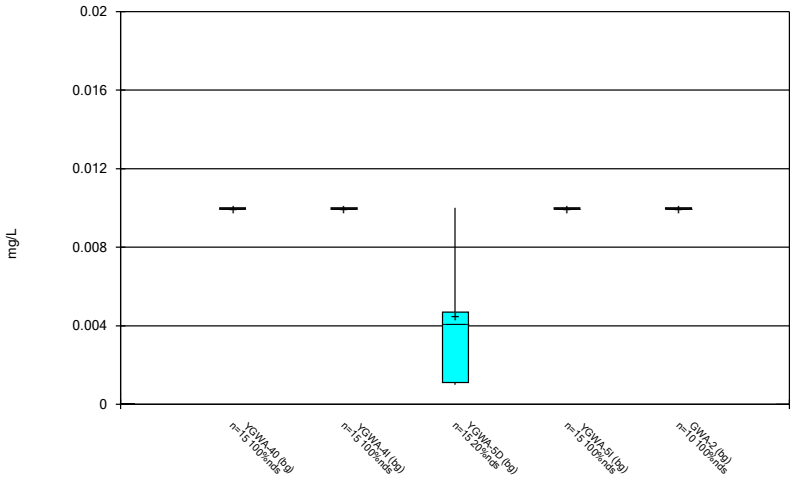
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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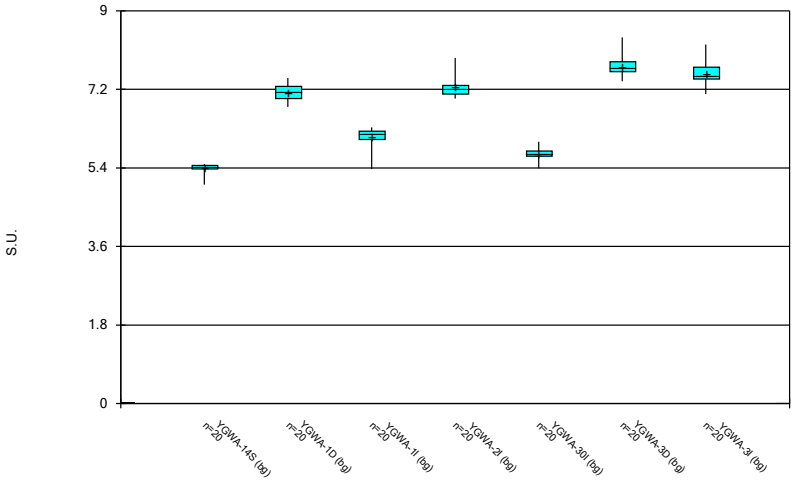
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot

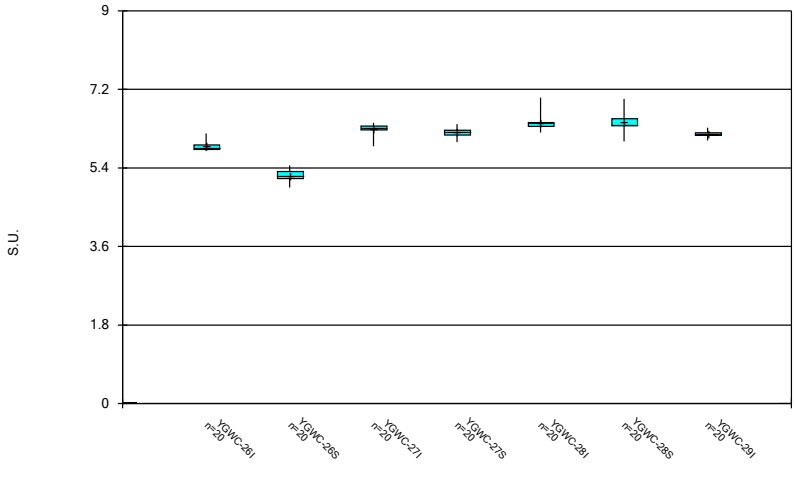


Constituent: pH Analysis Run 5/10/2021 3:46 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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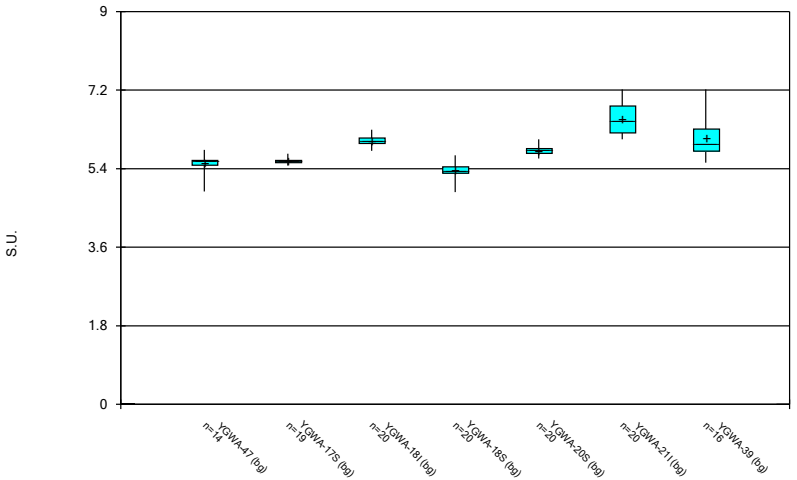
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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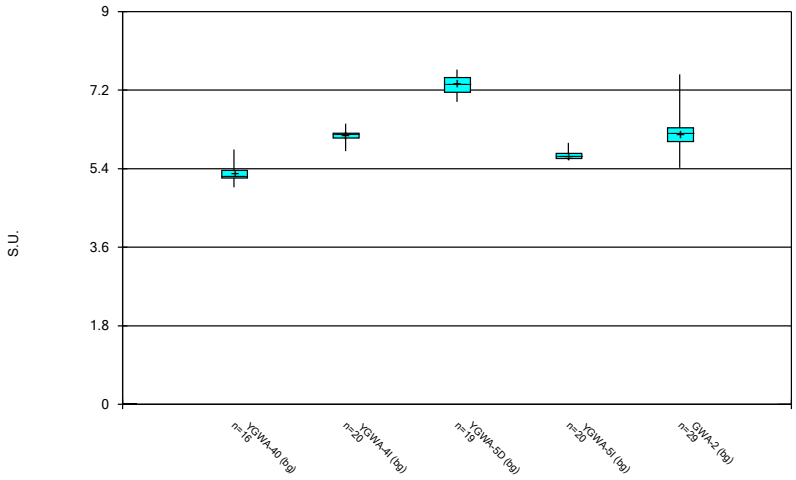
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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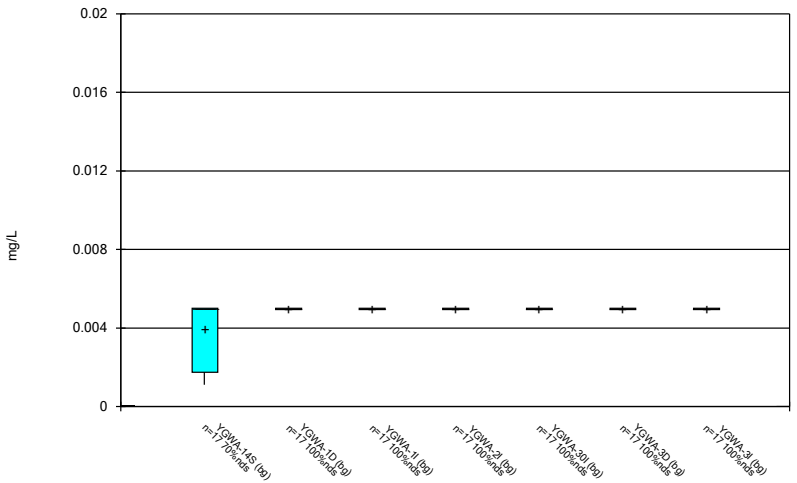
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot

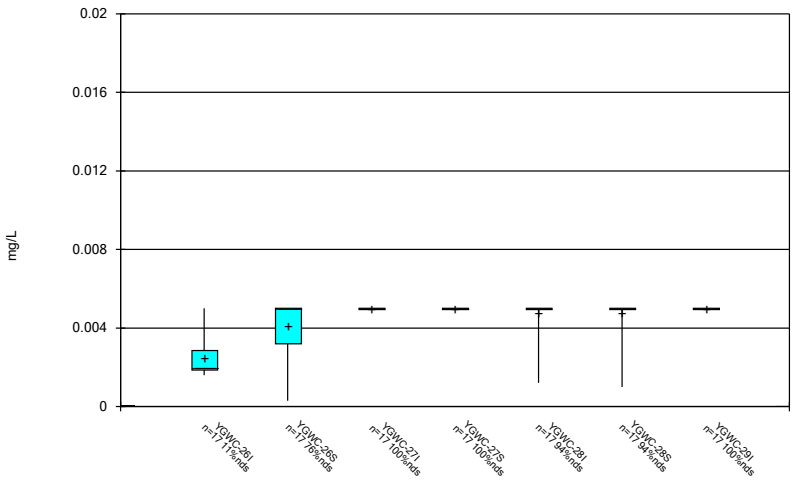


Constituent: Selenium Analysis Run 5/10/2021 3:46 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

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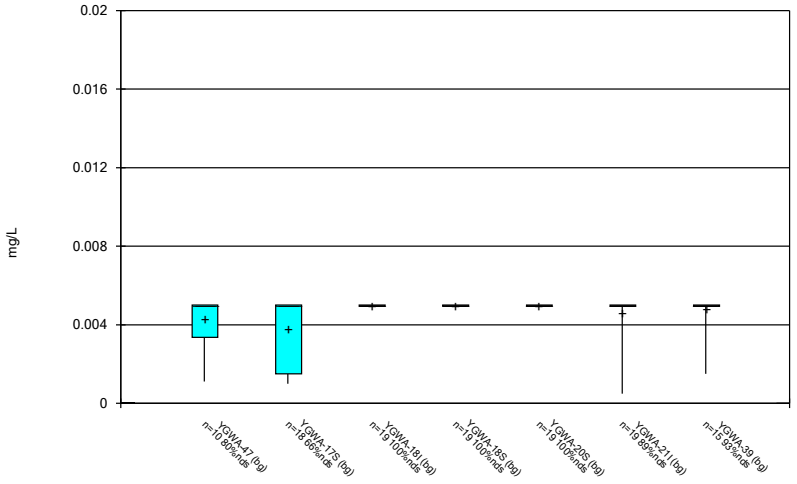

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Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

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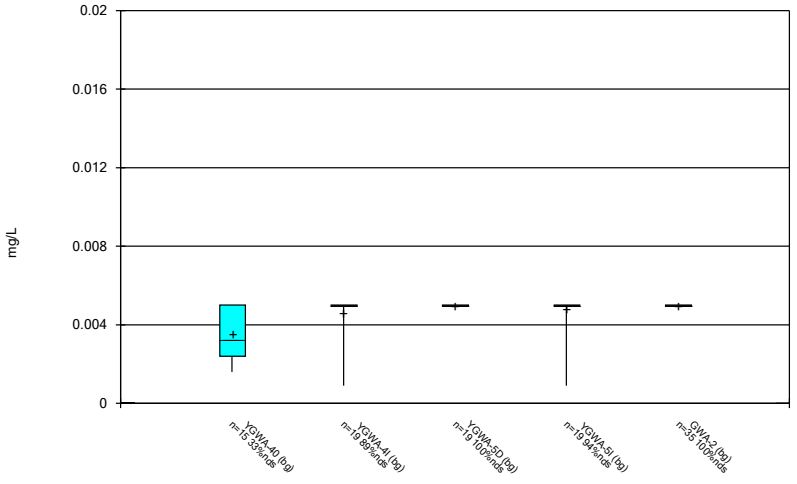

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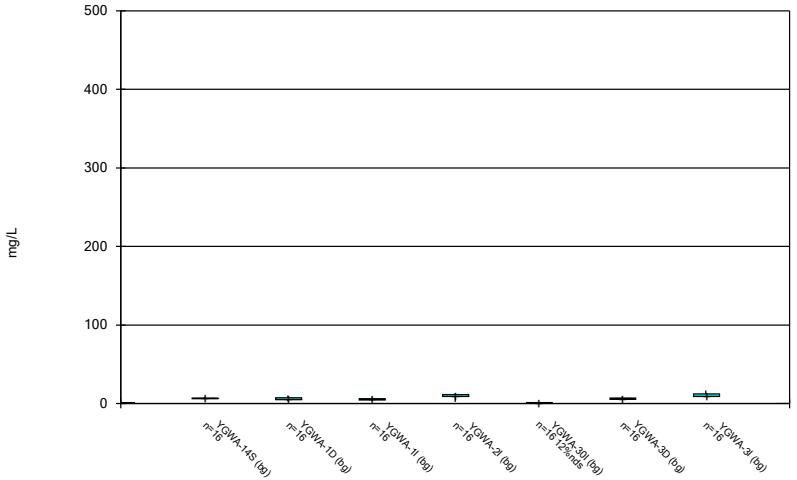
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

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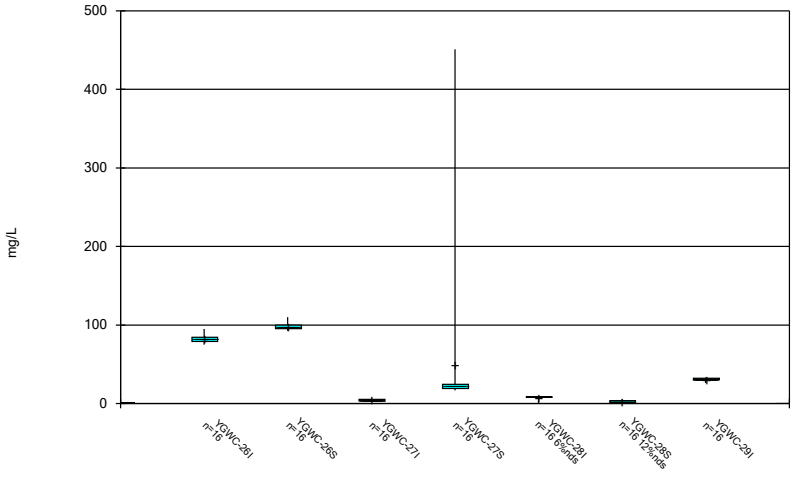

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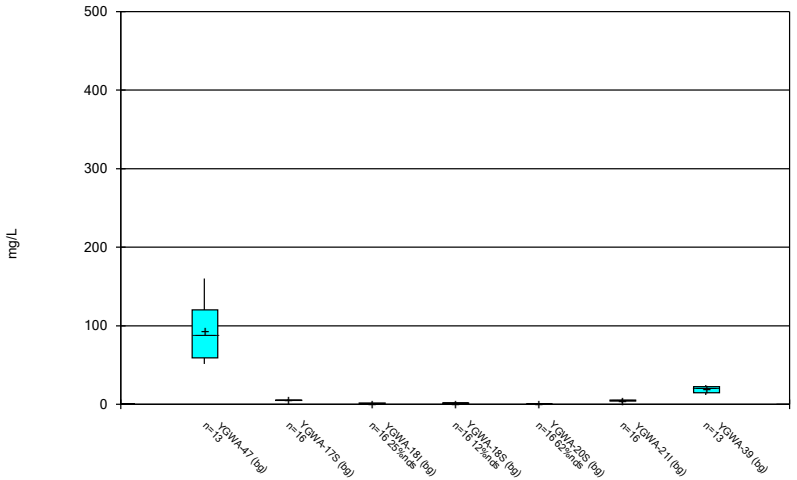

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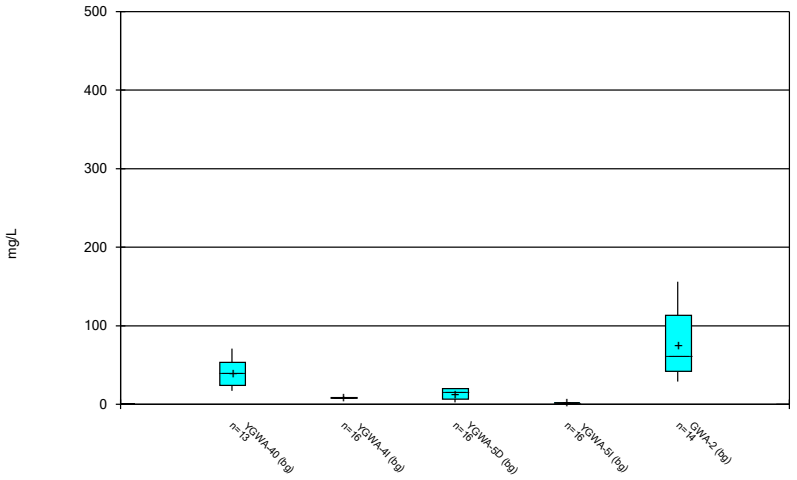

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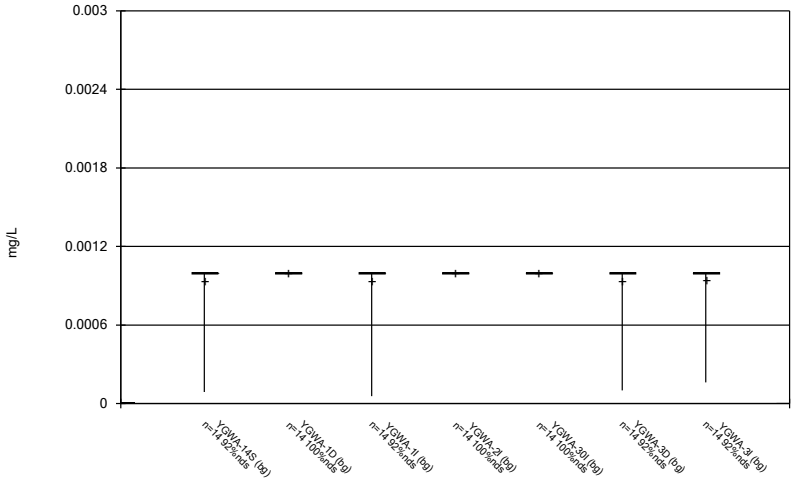

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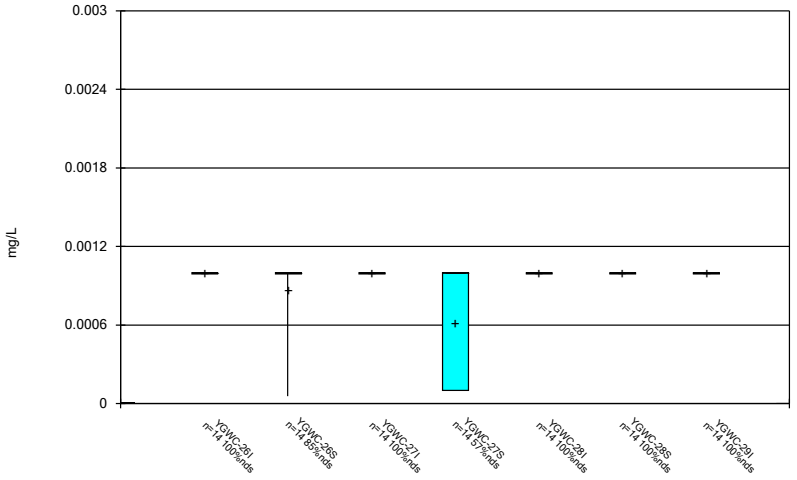
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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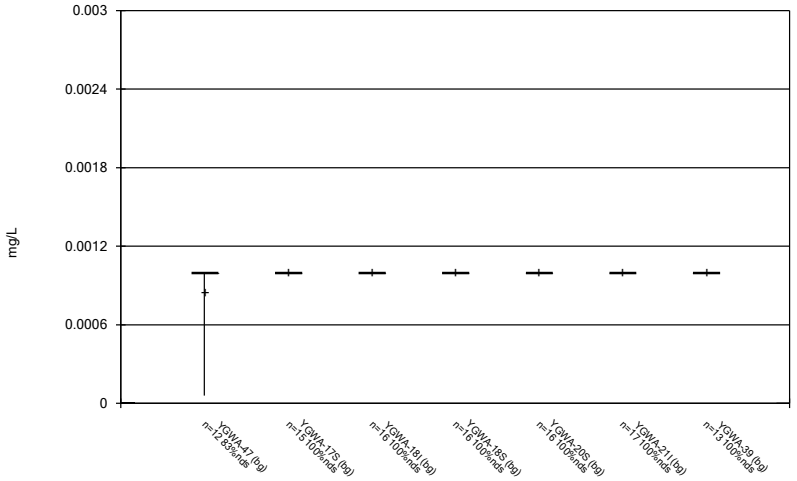
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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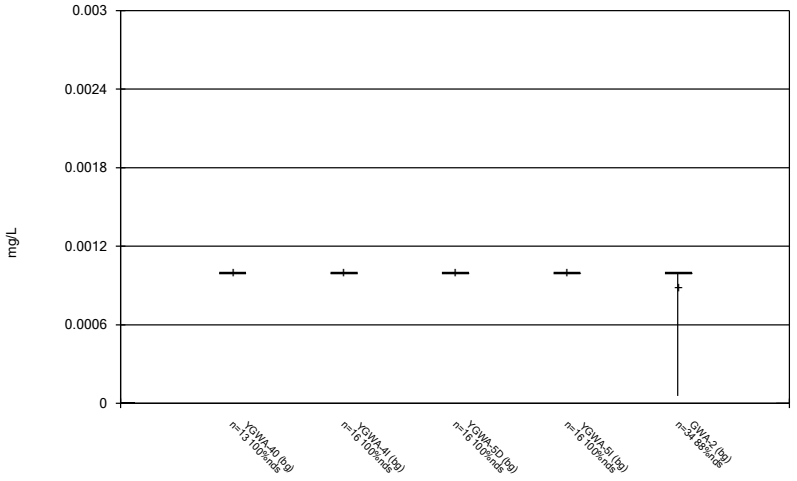
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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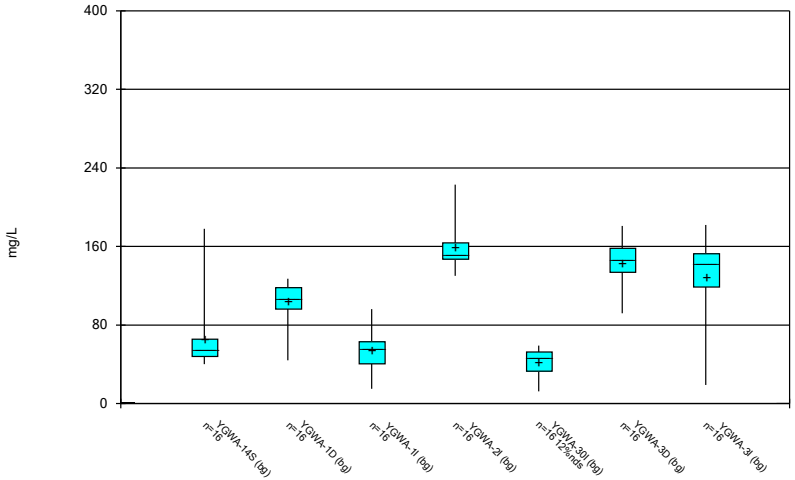
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

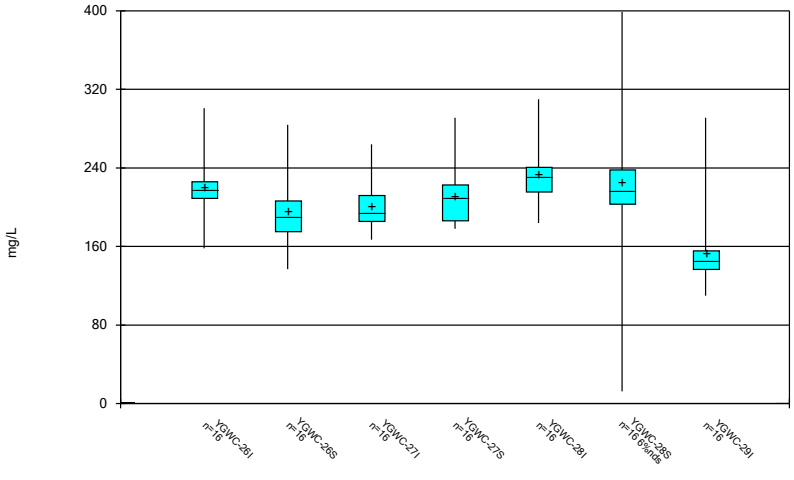
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 5/10/2021 3:46 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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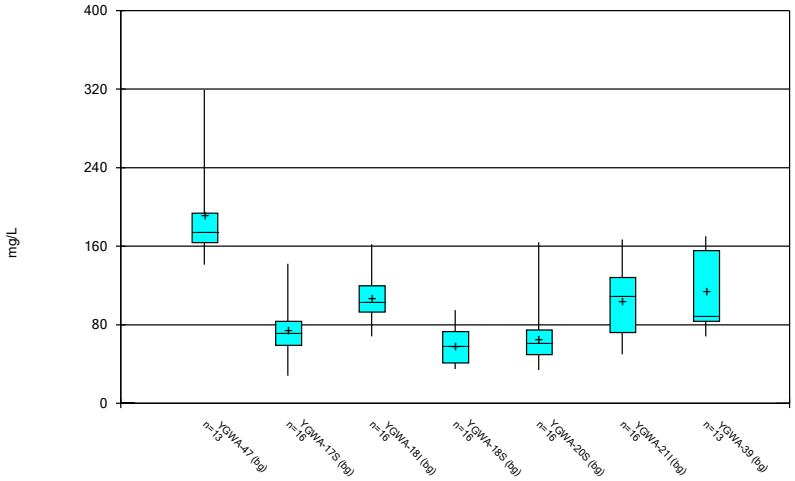
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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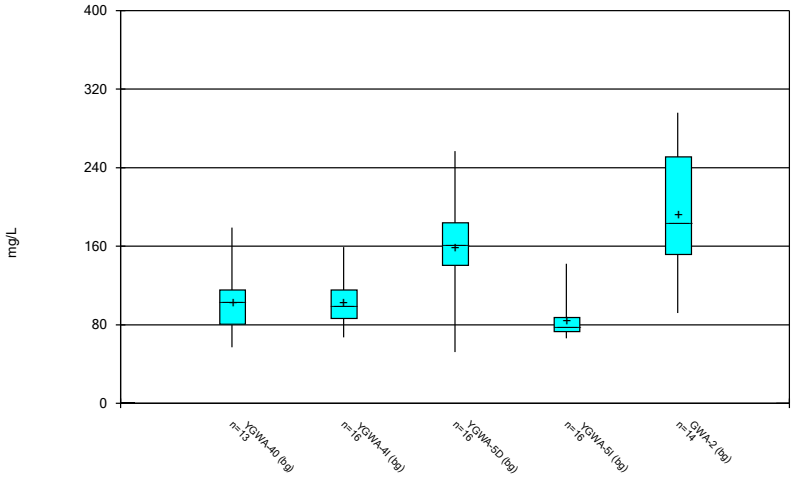
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 5/10/2021 3:46 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 5/10/2021, 3:48 PM

	GWA-2 Cobalt (mg/L)	YGWC-26I 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)		

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/10/2021, 3:51 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**	**3/3/2021**	**0.69**	**Yes**	**293**	**n/a**	**n/a**	**45.73**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-26S**	**0.16**	**n/a**	**3/2/2021**	**0.57**	**Yes**	**293**	**n/a**	**n/a**	**45.73**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-27I**	**0.16**	**n/a**	**3/3/2021**	**2**	**Yes**	**293**	**n/a**	**n/a**	**45.73**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-27S**	**0.16**	**n/a**	**3/3/2021**	**1.2**	**Yes**	**293**	**n/a**	**n/a**	**45.73**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-28I**	**0.16**	**n/a**	**3/3/2021**	**1.8**	**Yes**	**293**	**n/a**	**n/a**	**45.73**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-28S**	**0.16**	**n/a**	**3/3/2021**	**2.3**	**Yes**	**293**	**n/a**	**n/a**	**45.73**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-29I**	**0.16**	**n/a**	**3/3/2021**	**0.62**	**Yes**	**293**	**n/a**	**n/a**	**45.73**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-26I**	**7.9**	**n/a**	**3/3/2021**	**16.6**	**Yes**	**293**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-26S**	**7.9**	**n/a**	**3/2/2021**	**13.2**	**Yes**	**293**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-27I**	**7.9**	**n/a**	**3/3/2021**	**13**	**Yes**	**293**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-28I**	**7.9**	**n/a**	**3/3/2021**	**14.6**	**Yes**	**293**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-28S**	**7.9**	**n/a**	**3/3/2021**	**18**	**Yes**	**293**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**YGWC-27S**	**160**	**n/a**	**3/3/2021**	**451**	**Yes**	**293**	**n/a**	**n/a**	**6.143**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/10/2021, 3:51 PM

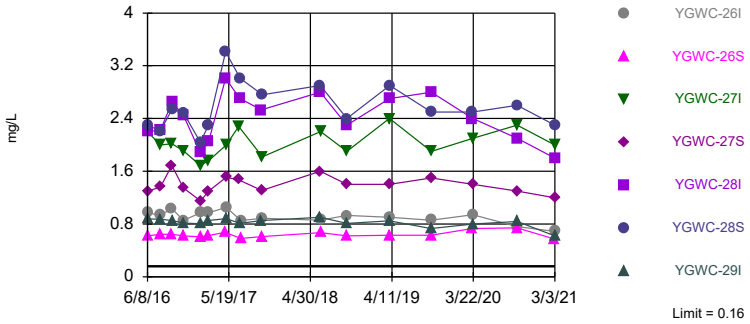
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**YGWC-26I**	**0.16**	**n/a**	**3/3/2021**	**0.69**	**Yes**	**293**	**n/a**	**n/a**	**45.73**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-26S**	**0.16**	**n/a**	**3/2/2021**	**0.57**	**Yes**	**293**	**n/a**	**n/a**	**45.73**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-27I**	**0.16**	**n/a**	**3/3/2021**	**2**	**Yes**	**293**	**n/a**	**n/a**	**45.73**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-27S**	**0.16**	**n/a**	**3/3/2021**	**1.2**	**Yes**	**293**	**n/a**	**n/a**	**45.73**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-28I**	**0.16**	**n/a**	**3/3/2021**	**1.8**	**Yes**	**293**	**n/a**	**n/a**	**45.73**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-28S**	**0.16**	**n/a**	**3/3/2021**	**2.3**	**Yes**	**293**	**n/a**	**n/a**	**45.73**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-29I**	**0.16**	**n/a**	**3/3/2021**	**0.62**	**Yes**	**293**	**n/a**	**n/a**	**45.73**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-26I	37	n/a	3/3/2021	16.1	No	293	n/a	n/a	1.024	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26S	37	n/a	3/2/2021	12.9	No	293	n/a	n/a	1.024	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27I	37	n/a	3/3/2021	25.7	No	293	n/a	n/a	1.024	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	37	n/a	3/3/2021	30.2	No	293	n/a	n/a	1.024	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	37	n/a	3/3/2021	30.9	No	293	n/a	n/a	1.024	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28S	37	n/a	3/3/2021	28.4	No	293	n/a	n/a	1.024	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-29I	37	n/a	3/3/2021	9.5	No	293	n/a	n/a	1.024	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	**YGWC-26I**	**7.9**	**n/a**	**3/3/2021**	**16.6**	**Yes**	**293**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-26S**	**7.9**	**n/a**	**3/2/2021**	**13.2**	**Yes**	**293**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-27I**	**7.9**	**n/a**	**3/3/2021**	**13**	**Yes**	**293**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	YGWC-27S	7.9	n/a	3/3/2021	4	No	293	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	**YGWC-28I**	**7.9**	**n/a**	**3/3/2021**	**14.6**	**Yes**	**293**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-28S**	**7.9**	**n/a**	**3/3/2021**	**18**	**Yes**	**293**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	YGWC-29I	7.9	n/a	3/3/2021	6.7	No	293	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	3/3/2021	0.05J	No	362	n/a	n/a	68.51	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-26S	0.68	n/a	3/2/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27I	0.68	n/a	3/3/2021	0.058J	No	362	n/a	n/a	68.51	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27S	0.68	n/a	3/3/2021	0.1ND	No	362	n/a	n/a	68.51	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28I	0.68	n/a	3/3/2021	0.072J	No	362	n/a	n/a	68.51	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28S	0.68	n/a	3/3/2021	0.13	No	362	n/a	n/a	68.51	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-29I	0.68	n/a	3/3/2021	0.056J	No	362	n/a	n/a	68.51	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-26I	8.39	4.86	3/3/2021	5.93	No	373	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-26S	8.39	4.86	3/2/2021	5.38	No	373	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27I	8.39	4.86	3/3/2021	6.43	No	373	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27S	8.39	4.86	3/3/2021	6.35	No	373	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28I	8.39	4.86	3/3/2021	6.51	No	373	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28S	8.39	4.86	3/3/2021	6.61	No	373	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-29I	8.39	4.86	3/3/2021	6.27	No	373	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	3/3/2021	89.3	No	293	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26S	160	n/a	3/2/2021	92.7	No	293	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27I	160	n/a	3/3/2021	2.6	No	293	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**YGWC-27S**	**160**	**n/a**	**3/3/2021**	**451**	**Yes**	**293**	**n/a**	**n/a**	**6.143**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	YGWC-28I	160	n/a	3/3/2021	8.6	No	293	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28S	160	n/a	3/3/2021	4.9	No	293	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-29I	160	n/a	3/3/2021	26.6	No	293	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26I	218.8	n/a	3/3/2021	205	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26S	218.8	n/a	3/2/2021	154	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27I	218.8	n/a	3/3/2021	173	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27S	218.8	n/a	3/3/2021	178	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28I	218.8	n/a	3/3/2021	184	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28S	218.8	n/a	3/3/2021	217	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-29I	218.8	n/a	3/3/2021	110	No	293	10.01	2.574	0.6826	None	sqrt(x)	0.001075	Param Inter 1 of 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

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 293 background values. 45.73% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Boron Analysis Run 5/10/2021 3:49 PM View: Appendix III

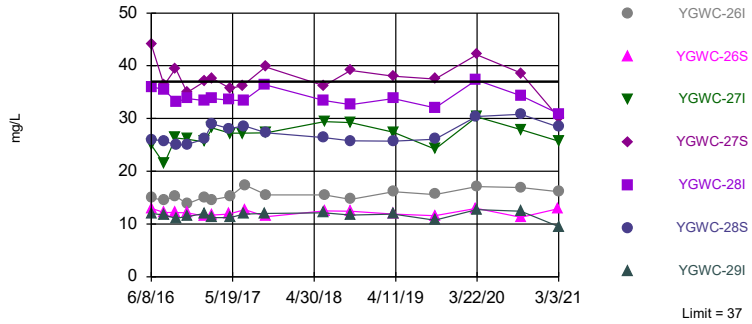
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

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 293 background values. 1.024% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Calcium Analysis Run 5/10/2021 3:49 PM View: Appendix III

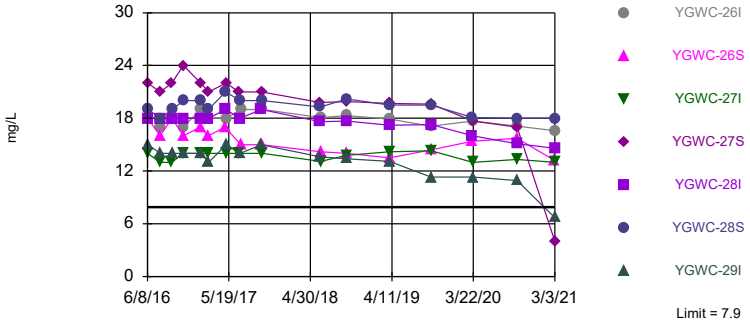
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27I, 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 293 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 5/10/2021 3:49 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

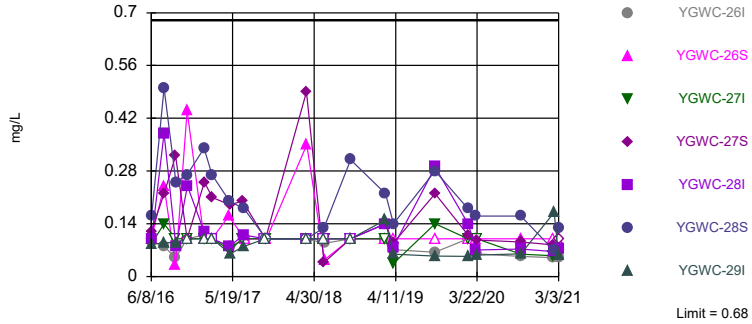
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

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 362 background values. 68.51% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Fluoride Analysis Run 5/10/2021 3:49 PM View: Appendix III

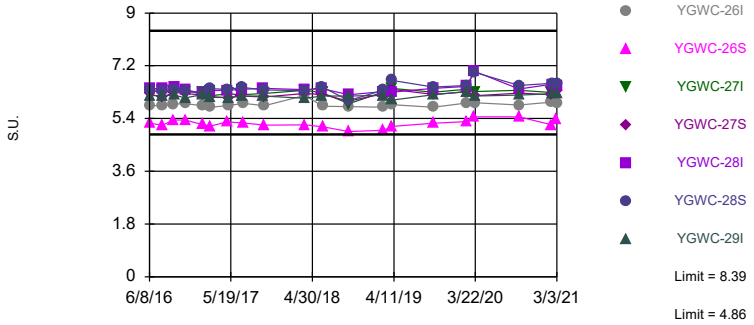
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

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 373 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 5/10/2021 3:49 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

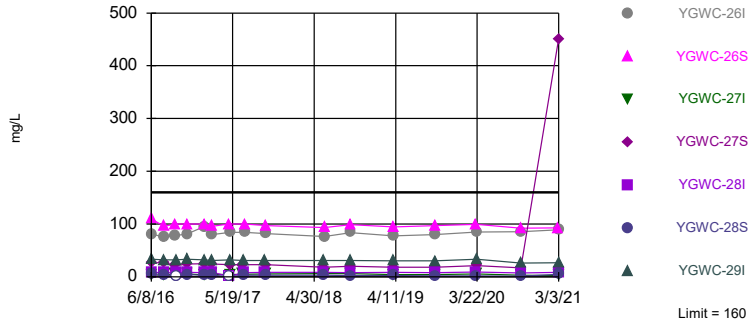
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Exceeds Limit: YGWC-27S

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 293 background values. 6.143% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 5/10/2021 3:49 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

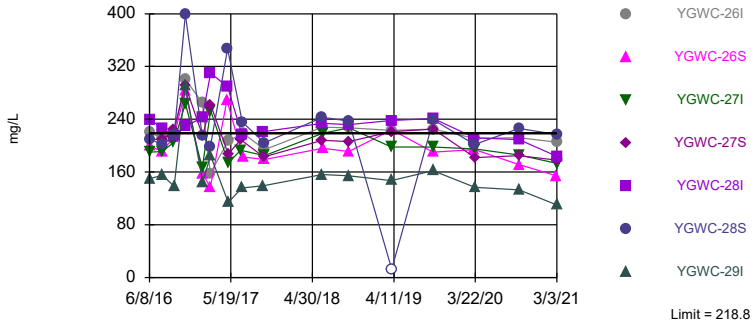
Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=10.01, Std. Dev.=2.574, n=293, 0.6826% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 12.97, 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 5/10/2021 3:49 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-14S (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)	0.0097 (J)	0.0052 (J)	<0.04	0.0047 (J)		0.0177 (J)
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				0.0071 (J)	0.01 (J)	<0.04		
9/15/2016				0.0102 (J)					0.0214 (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			<0.04				<0.04	0.0161 (J)
4/27/2017		<0.04	0.0066 (J)						
4/28/2017									
5/1/2017					0.0061 (J)		<0.04		
5/2/2017						<0.04			

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-14S (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								<0.04	0.0173 (J)
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							<0.04		0.0173 (J)
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				0.004 (J)		<0.04	0.0045 (J)		
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)	0.0057 (J)	0.005 (J)		
10/1/2018	<0.04	0.0049 (J)	0.021 (J)	<0.04					0.015 (J)
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 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-14S (bg)
4/2/2019									
4/3/2019					0.0076 (J)	0.0044 (J)	0.0055 (J)		
6/12/2019									
9/24/2019		0.0055 (J)	0.0064 (J)		0.01 (J)	0.0049 (J)			
9/25/2019	<0.04			0.0054 (J)			<0.04	<0.04	0.018 (J)
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					0.0079 (J)	0.0053 (J)	<0.04		
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					0.0068 (J)	0.011 (J)			0.017 (J)
3/3/2021	<0.04	<0.04	<0.04	<0.04			0.0056 (J)		
3/4/2021									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (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	<0.04	0.008 (J)					
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 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (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			<0.04	0.0074 (J)	<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)		<0.04	0.0077 (J)					
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)	<0.04	0.0096 (J)	0.0054 (J)				
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 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
4/2/2019				0.0066 (J)	0.011 (J)		0.9	0.63	
4/3/2019	0.0053 (J)	<0.04	<0.04						
6/12/2019									
9/24/2019					0.018 (J)				
9/25/2019			<0.04	0.0081 (J)			0.86	0.63	
9/26/2019	0.0072 (J)	0.0062 (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	0.01 (J)	0.0054 (J)	<0.04	0.0092 (J)	0.016 (J)				
3/25/2020									
9/22/2020									
9/23/2020	0.006 (J)	0.021 (J)		0.0066 (J)					
9/24/2020			0.0094 (J)		0.013 (J)	1.3	0.76	0.74	2.3
9/25/2020									
3/1/2021									
3/2/2021								0.57	
3/3/2021	0.0094 (J)	<0.04	<0.04	0.01 (J)		1.2	0.69		2
3/4/2021					0.0079 (J)				

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	2.3	2.2	0.88					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	2.21	2.22	0.872					
8/30/2016				0.0166 (J)				
8/31/2016					0.0315 (J)			
9/13/2016								
9/14/2016						<0.04		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	2.54	2.65	0.853					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						<0.04		
11/7/2016	2.49		0.815					
11/8/2016		2.44						
11/14/2016				0.0166 (J)				
11/28/2016					0.0095 (J)			
12/15/2016						0.0107 (J)		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						<0.04		
1/18/2017	2.04	1.88						
1/19/2017			0.803					
2/21/2017	2.29							
2/22/2017		2.05	0.855		<0.04			
2/23/2017								
2/24/2017				0.0145 (J)				
3/1/2017								
3/2/2017								
3/3/2017						<0.04		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						<0.04		
5/1/2017								
5/2/2017								

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29I	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		2.7	0.811					
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		2.53	0.851					
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		2.7	0.85					

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29I	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	2.1	0.84				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	1.8	0.62			<0.04		
3/4/2021							0.033 (J)	0.078

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-14S (bg)
6/1/2016	21	2.5	12						
6/2/2016				28	33	2.4	8.8	1.3	1.3
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	20.3	2.16						1.17	
7/26/2016			11	24.5	32.3	2.12	7.69		1.24
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016		2.21	11.8						
9/14/2016	19.7				31	2.18	8.49		
9/15/2016				27					1.17
9/16/2016									
9/19/2016								1.05	
9/20/2016									
9/21/2016									
11/1/2016	18.4		11	25.6				1.14	
11/2/2016					30.9		7.83		1.23
11/3/2016									
11/4/2016		2.67				2.17 (J)			
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									1.24
1/11/2017	20.3		11.2	27.5					
1/12/2017					35.7	2.37			
1/13/2017							8.08		
1/16/2017		2.45						1.23	
1/18/2017									
1/19/2017									
2/21/2017								1.25	
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	18.6								
3/2/2017		2.57	11	27.5					
3/3/2017									
3/6/2017							8.64		
3/7/2017					32.7	2.34			
3/8/2017									1.21
4/26/2017	25.6			30.4				1.03	1.14
4/27/2017		2.38	11.1						
4/28/2017									
5/1/2017					37		13.4		
5/2/2017						2.17			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-14S (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								1.13	1.24
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							9.29		1.11
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				29.1		2.3	8.2		
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	2.3	9.5 (J)		
10/1/2018	19.7	1.8	15.1	26.9					0.99
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 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-14S (bg)
4/2/2019									
4/3/2019					24.7 (J)	2.8	8.4		
6/12/2019									
9/24/2019		2.3	15.8		25.8	2.5			
9/25/2019	22.4			29.5			9.5	1.1	1.1
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		2.1							1.1
3/19/2020	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					27.2	2.6	9.6		
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					1.6	2.6			1.2
3/3/2021	20.6	1.8	14.1	29.8			7.7		
3/4/2021									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (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			2.3	2.2	3.7				
6/8/2016						44	15	13	25
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	1.19	4.73	2.08	2					
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	1.97		3.17				
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			2.45		4.98				
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			2.48		6.28				
3/7/2017									
3/8/2017									
4/26/2017	1.05	4.28	2.3		6.65				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				1.95					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (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			2.54	2.02	6.04				
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		2.25	2.03					
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	2.3	2.1	10.4 (J)				
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 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
4/2/2019				2.5	8.8		16.1 (J)	11.9 (J)	
4/3/2019	1.2	5.3	2.9						
6/12/2019									
9/24/2019					7.7				
9/25/2019			2.4	2.6			15.6	11.6	
9/26/2019	1.1	4.9				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	1	5.3	2.6	2.7	6				
3/25/2020									
9/22/2020									
9/23/2020	0.91 (J)	5.2		2.6					
9/24/2020			2.6		7.8	38.6	16.9	11.3	27.9
9/25/2020									
3/1/2021									
3/2/2021								12.9	
3/3/2021	0.96 (J)	5.2	2.4	2.5		30.2	16.1		25.7
3/4/2021					8.7				

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	26	36	12					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	25.8	35.5	11.7					
8/30/2016				20.9				
8/31/2016					9.31			
9/13/2016								
9/14/2016						23.5		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	24.9	33.2	11.1					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						23.7		
11/7/2016	25.1		11.4					
11/8/2016		33.8						
11/14/2016				18.6				
11/28/2016					9.47 (B)			
12/15/2016						23.1		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						23.3		
1/18/2017	26.1	33.4						
1/19/2017			12					
2/21/2017	29							
2/22/2017		33.8	11.2		10.4			
2/23/2017								
2/24/2017				16.1				
3/1/2017								
3/2/2017								
3/3/2017						25.1		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						30.7		
5/1/2017								
5/2/2017								

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29I	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		33.4	11.9					
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		36.4	12					
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		33.8	11.9 (J)					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29I	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	34.3	12.4				3.7	4.4
9/25/2020								
3/1/2021				10.3				
3/2/2021					34.2			
3/3/2021	28.4	30.9	9.5			25.6		
3/4/2021							8.2	4.6

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-14S (bg)
6/1/2016	1.3	1.6	1.3						
6/2/2016				1.4	7.2	4.3	3.7	1.9	4.1
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	1.3	1.4						1.7	
7/26/2016			1.2	1.6	6.6	4.4	3.6		4
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016		1.3	1.1						
9/14/2016	1.3				6.6	3.8	3.4		
9/15/2016				1.5					4.2
9/16/2016									
9/19/2016								1.6	
9/20/2016									
9/21/2016									
11/1/2016	1.4		1.3	1.7				1.8	
11/2/2016					7.6		4.5		4.9
11/3/2016									
11/4/2016		1.6				4.8			
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									4.1
1/11/2017	1.1		1.1	1.2					
1/12/2017					6.8	3.8			
1/13/2017							4.2		
1/16/2017		1.4						1.7	
1/18/2017									
1/19/2017									
2/21/2017								1.7	
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	1.1								
3/2/2017		1.3	1	1.2					
3/3/2017									
3/6/2017							3.6		
3/7/2017					6.8	4.5			
3/8/2017									4.2
4/26/2017	1.1			1.2				1.7	4.1
4/27/2017		1.3	1						
4/28/2017									
5/1/2017					7.2		4.3		
5/2/2017						4.6			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-14S (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								1.8	3.7
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							4.7		3.8
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				1.2		4.5	4.4		
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	5.1	4.8		
10/1/2018	1.2	1.4	1.1	1.5					3.8
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 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-14S (bg)
4/2/2019									
4/3/2019					4	4.2	4.3		
6/12/2019									
9/24/2019		1.3	1.1		3.7	4.5			
9/25/2019	1.1			1.1			4.5	1.6	4.8
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					3.6	4.2	4.5		
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					3.2	4.3			4.9
3/3/2021	0.99 (J)	1.2	0.96 (J)	1.1			4.1		
3/4/2021									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (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			1.9	4.5	2.8				
6/8/2016						22	19	18	14
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	6.2	6.7	1.9	4.5					
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	1.9		2.4				
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			2.3		2.5				
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			1.9		2.1				
3/7/2017									
3/8/2017									
4/26/2017	6.5	7	2		2.1				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				4.6					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (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			2.6	4.5	2.8				
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		2.6	4.7					
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	3.6	5.6	2.2				
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 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
4/2/2019				4.8	2.5		17.9	13.5	
4/3/2019	6.3	6.9	3.1						
6/12/2019									
9/24/2019					3.1				
9/25/2019			2.8	5.7			17.1	14.4	
9/26/2019	7.1	7				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	6.8	7	2.7	5	2.8				
3/25/2020									
9/22/2020									
9/23/2020	7.2	7.2		6.6					
9/24/2020			2.7		2	17	17.1	15.7	13.3
9/25/2020									
3/1/2021									
3/2/2021								13.2	
3/3/2021	7.2	7	2.7	7.1		4	16.6		13
3/4/2021					1.8				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	19	18	15					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	18	18	14					
8/30/2016				5.2				
8/31/2016					4			
9/13/2016								
9/14/2016						1.1		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	19	18	14					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						1.4		
11/7/2016	20		14					
11/8/2016		18						
11/14/2016				6.4				
11/28/2016					4.2			
12/15/2016						2.9		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						0.98		
1/18/2017	20	18						
1/19/2017			14					
2/21/2017	19							
2/22/2017		18	13		3.7			
2/23/2017								
2/24/2017				5.5				
3/1/2017								
3/2/2017								
3/3/2017						1.1		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						0.91		
5/1/2017								
5/2/2017								

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29I	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		18	14					
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		19	15					
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		17.2	13.1					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29I	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	15.1	10.9				2.7	5
9/25/2020								
3/1/2021				3.7				
3/2/2021					4.1			
3/3/2021	18	14.6	6.7			0.86 (J)		
3/4/2021							4.9	4.9

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-14S (bg)
6/1/2016	0.12 (J)	<0.1	0.15 (J)						
6/2/2016				0.11 (J)	<0.1	<0.1	0.62	<0.1	<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)			0.05 (J)		<0.1	0.49	<0.1	0.02 (J)
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016	0.11 (J)	<0.1							
9/14/2016			0.18 (J)	0.04 (J)		<0.1		<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	0.05 (J)		0.09 (J)				0.49		
1/12/2017				0.04 (J)				<0.1	
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	0.04 (J)	0.01 (J)							
4/28/2017									
5/1/2017				<0.1		<0.1			
5/2/2017								<0.1	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-5I (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	0.48	<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				0.44		<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 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-14S (bg)
2/27/2019	0.052 (J)	<0.1	0.13 (J)				0.53		
3/4/2019				0.19 (J)		<0.1		<0.1	
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019	0.036 (J)	<0.1							
3/29/2019									<0.1
4/1/2019			0.1 (J)		<0.1		0.45		
4/2/2019									
4/3/2019				0.047 (J)		<0.1		<0.1	
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019	0.063 (J)	<0.1		0.05 (J)				<0.1	
9/25/2019			0.1 (J)		<0.1	<0.1	0.46		<0.1
9/26/2019									
10/8/2019									
10/9/2019									
2/10/2020	0.061 (J)	<0.1							
2/11/2020			0.094 (J)						
2/12/2020				<0.1	<0.1	<0.1	0.4	<0.1	<0.1
2/13/2020									
3/17/2020									
3/18/2020		<0.1							<0.1
3/19/2020	0.064 (J)		0.11 (J)		<0.1		0.51		
3/20/2020									
3/24/2020				<0.1				<0.1	
3/25/2020						<0.1			
8/26/2020									
8/27/2020									
9/22/2020				0.056 (J)		<0.1		<0.1	
9/23/2020	0.058 (J)	<0.1	0.098 (J)				0.47		
9/24/2020					<0.1				
9/25/2020									<0.1
2/8/2021				0.055 (J)				<0.1	
2/9/2021						<0.1			
2/10/2021			<0.1				0.43		<0.1
2/11/2021					<0.1				
2/12/2021	0.068 (J)	<0.1							
3/1/2021					<0.1				
3/2/2021				<0.1				<0.1	<0.1
3/3/2021	0.078 (J)	<0.1	0.1			<0.1	0.44		
3/4/2021									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-26I	YGWC-27I	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						0.094 (J)	0.086 (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						0.08 (J)	0.14 (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	0.02 (J)		<0.1				
9/20/2016						0.05 (J)	<0.1	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						0.11 (J)	<0.1 (*)		<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	0.04 (J)		<0.1				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				<0.1					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-26I	YGWC-27I	YGWC-27S	YGWC-26S
5/3/2017									0.16 (J)
5/5/2017									
5/8/2017						0.08 (J)	0.07 (J)	0.19 (J)	
5/26/2017									
6/27/2017									
6/28/2017	<0.1	<0.1							
6/29/2017			<0.1	<0.1	<0.1				
6/30/2017							<0.1 (*)	0.2 (J)	
7/5/2017									
7/7/2017									
7/10/2017						<0.1 (*)			<0.1 (*)
7/11/2017									
7/17/2017									
10/3/2017			<0.1						
10/4/2017	<0.1			<0.1	<0.1				
10/5/2017		<0.1							
10/6/2017								<0.1 (*)	
10/9/2017							<0.1 (*)		
10/10/2017						<0.1			<0.1
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	<0.1	<0.1		<0.1					
3/29/2018			<0.1		<0.1		<0.1	0.49	
3/30/2018						<0.1			0.35
4/2/2018									
4/3/2018									
6/5/2018			0.13 (J)						
6/6/2018					<0.1				
6/7/2018		<0.1							
6/8/2018									
6/11/2018	<0.1			<0.1					
6/12/2018								0.037 (J)	
6/13/2018						0.088 (J)	<0.1		0.044 (J)
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	<0.1	<0.1	0 (J)	<0.1	<0.1				
9/26/2018									
10/1/2018									
10/2/2018						<0.1	<0.1	<0.1	<0.1
10/3/2018									
2/25/2019									
2/26/2019									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-26I	YGWC-27I	YGWC-27S	YGWC-26S
2/27/2019						<0.1	<0.1	0.14 (J)	<0.1
3/4/2019									
3/5/2019	<0.1		0.32	<0.1	<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 (J)		<0.1				
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						0.06 (J)	<0.1	0.097 (J)	
3/24/2020	<0.1	<0.1	0.081 (J)	<0.1	<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			0.079 (J)		<0.1	0.053 (J)	0.059 (J)	0.092 (J)	<0.1
9/25/2020									
2/8/2021									
2/9/2021	<0.1	<0.1	0.092 (J)		<0.1				
2/10/2021						0.05 (J)	0.055 (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	0.05 (J)	0.058 (J)	<0.1	
3/4/2021			0.091 (J)						

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28S	YGWC-29I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	0.098 (J)	0.16 (J)	0.085 (J)					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	0.38	0.5	0.09 (J)					
8/30/2016				0.09 (J)				
8/31/2016					0.14 (J)			
9/13/2016								
9/14/2016						0.08 (J)		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	0.08 (J)	0.25 (J)	0.09 (J)					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						<0.1		
11/7/2016		0.27 (J)	<0.1 (*)					
11/8/2016	0.24 (J)							
11/14/2016				0.18 (J)				
11/28/2016					0.12 (J)			
12/15/2016						0.06 (J)		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						0.1 (J)		
1/18/2017	0.12 (J)	0.34						
1/19/2017			<0.1 (*)					
2/21/2017		0.27 (J)						
2/22/2017	<0.1 (*)		<0.1 (*)		0.09 (J)			
2/23/2017								
2/24/2017				0.05 (J)				
3/1/2017								
3/2/2017								
3/3/2017						<0.1		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						0.06 (J)		
5/1/2017								
5/2/2017								

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28S	YGWC-29I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	0.08 (J)	0.2 (J)						
5/8/2017			0.06 (J)	0.03 (J)	0.05 (J)			
5/26/2017						0.09 (J)		
6/27/2017								
6/28/2017						0.11 (J)		
6/29/2017								
6/30/2017								
7/5/2017	0.11 (J)		0.08 (J)					
7/7/2017		0.18 (J)						
7/10/2017								
7/11/2017				0.07 (J)				
7/17/2017					0.14 (J)			
10/3/2017						<0.1		
10/4/2017								
10/5/2017	<0.1 (*)		<0.1 (*)					
10/6/2017								
10/9/2017		<0.1 (*)						
10/10/2017				<0.1				
10/11/2017							<0.1	
10/12/2017								<0.1
10/16/2017					0.12 (J)			
11/20/2017							<0.1	<0.1
1/10/2018								<0.1
1/11/2018							<0.1	
2/19/2018					0.17			<0.1
2/20/2018							0.23	
3/27/2018								
3/28/2018						0.31		
3/29/2018			<0.1					
3/30/2018	<0.1	<0.1						
4/2/2018				<0.1				
4/3/2018							<0.1	<0.1
6/5/2018								
6/6/2018								
6/7/2018						0.11 (J)		
6/8/2018								
6/11/2018			<0.1					
6/12/2018	<0.1	0.13 (J)						
6/13/2018								
6/28/2018							<0.1	<0.1
8/6/2018					0.087 (J)			
8/7/2018							0.048 (J)	<0.1
9/19/2018				<0.1				
9/24/2018							<0.1	<0.1
9/25/2018								
9/26/2018								
10/1/2018						<0.1		
10/2/2018			<0.1					
10/3/2018	<0.1	0.31						
2/25/2019					0.14 (J)			
2/26/2019								

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28S	YGWC-29I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/27/2019	0.14 (J)	0.22 (J)	0.15 (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)	0.18 (J)	0.053 (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)	0.16	0.06 (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	0.072 (J)	0.13	0.056 (J)			0.085 (J)		
3/4/2021							<0.1	<0.1

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/10/2021 3:51 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-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
8/27/2008	6.53								
3/3/2009	6.35								
11/18/2009	6.47								
3/3/2010	6.53								
3/10/2011	5.83								
9/8/2011	5.69								
3/5/2012	6.27								
9/10/2012	6.23								
2/6/2013	7.56								
8/12/2013	6.68								
2/5/2014	6.32								
8/3/2015	6.13 (D)								
2/16/2016	5.64								
6/1/2016		7.72	7.46	6.33					
6/2/2016					5.75	5.46	5.75	6.36	7.84
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016		7.74		6.21	5.82				
7/26/2016			7.43			5.45	5.72	6.22	7.88
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
9/13/2016			7.44	6.16					
9/14/2016		7.65					5.74	6.23	
9/15/2016						5.45			7.74
9/16/2016									
9/19/2016					5.78 (D)				
9/20/2016									
9/21/2016									
11/1/2016		7.7	7.24		5.62				7.75
11/2/2016						5.41		6.08	
11/3/2016									
11/4/2016				6.29			5.61		
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016	6.23								
12/15/2016									
1/10/2017						5.37			
1/11/2017		7.53	7.3						7.66
1/12/2017							5.71		
1/13/2017								6.19	
1/16/2017				6.29	5.72				
1/18/2017									
1/19/2017									
2/21/2017					5.67				
2/22/2017	6.21								
2/23/2017									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/10/2021 3:51 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-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
2/24/2017									
3/1/2017		7.42							
3/2/2017			7.23	6.28					7.68
3/3/2017									
3/6/2017								6.2	
3/7/2017							5.66		
3/8/2017						5.41			
4/26/2017		7.4			5.56	5.02			7.45
4/27/2017			6.99	6.09					
4/28/2017									
5/1/2017								6.21	
5/2/2017							5.65		
5/3/2017									
5/5/2017									
5/8/2017	6.12								
5/26/2017									
6/27/2017			6.87	6.21			5.7		
6/28/2017		7.5							7.65
6/29/2017								6.21	
6/30/2017					5.72	5.39			
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017	6.03								
10/3/2017			6.81	5.98			5.79		
10/4/2017		7.45			5.87				7.49
10/5/2017						5.49		6.16	
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017	6.12								
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018	6.13								
2/20/2018									
3/27/2018				6.25	5.83	5.47			
3/28/2018		7.74							7.91
3/29/2018			7.38				5.63	6.09	
3/30/2018									
4/2/2018									
4/3/2018									
6/5/2018			7.16						
6/6/2018				6.17					
6/7/2018							5.63	6.12	7.69
6/8/2018		7.64				5.45			
6/11/2018					5.69				
6/12/2018									
6/13/2018									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/10/2021 3:51 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-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (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	5.84	
10/1/2018		7.47	6.8	5.9		5.39			7.39
10/2/2018					5.39				
10/3/2018									
2/25/2019	6.51								
2/26/2019					5.77	5.46			
2/27/2019		7.54	6.84	5.8					7.55
3/4/2019							5.75	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			5.62				7.87
4/2/2019									
4/3/2019							5.63	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		
9/25/2019		7.47			5.69	5.19		6.2	7.64
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					5.8	5.48	5.83	6.15	7.83
2/13/2020									
3/17/2020	6.14								
3/18/2020				6.19		5.38			
3/19/2020		7.31	7.03		6				7.65
3/20/2020									
3/24/2020							5.81		
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	5.8	
9/23/2020		7.37	7.15	6.01					7.57
9/24/2020					5.67				
9/25/2020						5.44			
2/8/2021							5.67		
2/9/2021								6.06	
2/10/2021		7.58				5.35			7.81

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/10/2021 3:51 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-30I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
2/11/2021					5.73				
2/12/2021			7.14	6.21					
3/1/2021					5.78				
3/2/2021	5.42					5.49	5.63		
3/3/2021		8.23	7.2	5.38				6.21	8.39
3/4/2021									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-5D (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26S	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	7.67								
6/6/2016		6.17	5.71						
6/7/2016				5.62	6.1	5.77			
6/8/2016							6.24	5.24	5.85
6/9/2016									
7/25/2016									
7/26/2016	7.66								
7/27/2016		6.14	5.46	5.59		5.79			
7/28/2016					6.12				
8/1/2016							6.12	5.17	5.83
8/2/2016									
8/30/2016									
9/13/2016									
9/14/2016	7.6								
9/15/2016									
9/16/2016				5.58					
9/19/2016		6.04	5.59		6.12	5.73			
9/20/2016							6.3	5.35	5.89
9/21/2016									
11/1/2016									
11/2/2016	7.35					5.67			
11/3/2016		5.97	5.39	5.59	6.07				
11/4/2016									
11/7/2016							6.25	5.35	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	7.49								
1/13/2017					6.41	5.79			
1/16/2017									
1/18/2017								5.2	5.84
1/19/2017							6.2		
2/21/2017								5.14	5.79
2/22/2017							6.14		
2/23/2017									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-5D (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26S	YGWC-26I
2/24/2017									
3/1/2017		5.94	5.41						
3/2/2017				5.54					
3/3/2017									
3/6/2017					6.34	5.63			
3/7/2017	7.43								
3/8/2017									
4/26/2017		5.99	5.4		6.32	5.66			
4/27/2017									
4/28/2017									
5/1/2017	7.22								
5/2/2017				5.47					
5/3/2017								5.28	
5/5/2017									
5/8/2017							6.11		5.84
5/26/2017									
6/27/2017	7.32								
6/28/2017		6	5.36						
6/29/2017				5.56	6.47	5.85			
6/30/2017							6.17		
7/5/2017									
7/7/2017									
7/10/2017								5.25	5.92
7/11/2017									
7/17/2017									
10/3/2017	7.48				6.56				
10/4/2017			5.32	5.57		5.83			
10/5/2017		6.11							
10/6/2017							6.13		
10/9/2017									
10/10/2017								5.17	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									
3/28/2018		6.1	5.34	5.59					
3/29/2018	7.02				6.75	5.93	6.25		
3/30/2018								5.19	6.19
4/2/2018									
4/3/2018									
6/5/2018					6.09				
6/6/2018	7.43					5.86			
6/7/2018		5.98							
6/8/2018									
6/11/2018			5.28	5.58					
6/12/2018							6.22		
6/13/2018								5.12	5.82

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-5D (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26S	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	6.67	5.84			
9/26/2018	7.13								
10/1/2018									
10/2/2018							5.99	4.95	5.81
10/3/2018									
2/25/2019									
2/26/2019									
2/27/2019							6.26	5	5.79
3/4/2019	7.46								
3/5/2019			5.26	5.48	7.22	6.07			
3/6/2019		5.99							
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019							6.4		
4/2/2019				5.74	6.94			5.13	5.87
4/3/2019	7.11	6.29	5.47			5.71			
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019	6.93				6.87				
9/25/2019				5.49		5.86		5.24	5.79
9/26/2019		6.04	5.2				6.22		
10/8/2019									
10/9/2019									
2/10/2020									
2/11/2020		6.07	5.3	5.58					
2/12/2020	7.52				7.13	6			
2/13/2020							6.31	5.29	5.93
3/17/2020									
3/18/2020									
3/19/2020								5.46	
3/20/2020							6.18		5.94
3/24/2020	7.34	5.98	5.33	5.57	6.35	5.86			
3/25/2020									
5/6/2020									
8/26/2020									
8/27/2020									
9/22/2020	7.19								
9/23/2020		6.01	5.29	5.58					
9/24/2020					6.7	5.8	6.27	5.46	5.86
9/25/2020									
2/8/2021									
2/9/2021		6.12	5.43		6.95	5.86			
2/10/2021							6.21	5.18	5.96

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-5D (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-26S	YGWC-26I
2/11/2021									
2/12/2021									
3/1/2021									
3/2/2021	7.15							5.38	
3/3/2021		5.89	5.31	5.52		5.89	6.35		5.93
3/4/2021					6.8				

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27I	YGWC-28I	YGWC-28S	YGWC-29I	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
8/27/2008								
3/3/2009								
11/18/2009								
3/3/2010								
3/10/2011								
9/8/2011								
3/5/2012								
9/10/2012								
2/6/2013								
8/12/2013								
2/5/2014								
8/3/2015								
2/16/2016								
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016	6.32							
6/9/2016		6.42	6.39	6.19				
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016	6.34							
8/2/2016		6.43	6.35	6.17				
8/30/2016					5.75			
9/13/2016						7.41		
9/14/2016								
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016	6.36							
9/21/2016		6.45	6.39	6.2				
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						7.12		
11/7/2016	6.3		6.36	6.1				
11/8/2016		6.37						
11/14/2016					5.59			
11/28/2016								
12/15/2016						7.24		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						7.24		
1/18/2017	6.31	6.27	6.23					
1/19/2017				6.22				
2/21/2017			6.42					
2/22/2017		6.35		6.12				
2/23/2017	6.18							

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27I	YGWC-28I	YGWC-28S	YGWC-29I	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		6.36	6.4					
5/8/2017	6.24			6.11	5.58			
5/26/2017						7.13		
6/27/2017								
6/28/2017						7.06		
6/29/2017								
6/30/2017	6.21							
7/5/2017		6.4		6.17				
7/7/2017			6.46					
7/10/2017								
7/11/2017					5.58			
7/17/2017								
10/3/2017						6.99		
10/4/2017								
10/5/2017		6.43		6.17				
10/6/2017								
10/9/2017	6.26		6.37					
10/10/2017					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	6.36			6.09				
3/30/2018		6.39	6.35					
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		6.42	6.47					
6/13/2018	6.28							

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27I	YGWC-28I	YGWC-28S	YGWC-29I	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	5.9			6.17				
10/3/2018		6.21	6.01					
2/25/2019								
2/26/2019								
2/27/2019	6.31	6.32	6.38	6.19		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	6.43	6.3		6.03				
4/2/2019			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				6.21				
9/26/2019	6.3	6.43	6.47					
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	6.4	6.49	6.53	6.32				
3/17/2020					5.57			
3/18/2020								
3/19/2020		7.01	6.98			7.22		
3/20/2020	6.32			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	6.36	6.41	6.53	6.2			5.7	5.43
9/25/2020								
2/8/2021								
2/9/2021								
2/10/2021	6.29					7.29	5.8	5.19

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27I	YGWC-28I	YGWC-28S	YGWC-29I	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	6.43	6.51	6.61	6.27		7.92		
3/4/2021							5.54	5.23

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-14S (bg)
6/1/2016	12	4.2	5						
6/2/2016				5.8	20	1.9	8	1.3	6.6
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	6.7	20	1.8	7.7		6.1
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					6.1
9/16/2016									
9/19/2016								1.2	
9/20/2016									
9/21/2016									
11/1/2016	8.9		3.9	4.9				1.3	
11/2/2016					20		8.2		6.3
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			5.1				1.4	7
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 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-14S (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								<1	6.5
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							9.6		7.9
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				6.7		2	8.5		
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	7.1					6.8
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 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-14S (bg)
4/2/2019									
4/3/2019					7	2.1	8.5		
6/12/2019									
9/24/2019		4.3	5.3		5.5	2.4			
9/25/2019	13.8			7			8.5	0.81 (J)	6.6
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					5.5	2.1	8.2		
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					2.6	2.3			6
3/3/2021	9.6	4.4	9	7			7.8		
3/4/2021									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (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			<1	4.4	5.2				
6/8/2016						26	81	110	3.2
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	1.9	1.7	0.08 (J)	4.7					
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	0.08 (J)		4.8				
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			<1		4.3				
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			<1		4.5				
3/7/2017									
3/8/2017									
4/26/2017	1.9	1.6	<1		4.9				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				5					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (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			<1	5.2	5.5				
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	1.5	1	0.13 (J)	6.1	7				
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 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
4/2/2019				5.1	3.8		77.6	94.5	
4/3/2019	1.3	0.82 (J)	0.12 (J)						
6/12/2019									
9/24/2019					1				
9/25/2019			<1	5.5			80.1	97	
9/26/2019	1	0.64 (J)				18.2			4.2
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020								99.4	
3/20/2020						21.1	84.7		5.2
3/24/2020	0.99 (J)	<1	<1	5.4	3				
3/25/2020									
9/22/2020									
9/23/2020	1.1	0.53 (J)		5.1					
9/24/2020			<1		3.6	16.6	85.6	92.3	3
9/25/2020									
3/1/2021									
3/2/2021								92.7	
3/3/2021	1	<1	<1	5.2		451	89.3		2.6
3/4/2021					4.5				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	5.2	8.7	33					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	4.5	7.5	32					
8/30/2016				160				
8/31/2016					29			
9/13/2016								
9/14/2016						9.4		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	<1 (*)	8	32					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						13		
11/7/2016	4.3		33					
11/8/2016		8.3						
11/14/2016				150				
11/28/2016					36			
12/15/2016						1.8		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						11		
1/18/2017	2.7	8						
1/19/2017			32					
2/21/2017	3							
2/22/2017		8.2	31		43			
2/23/2017								
2/24/2017				120				
3/1/2017								
3/2/2017								
3/3/2017						8.8		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						10		
5/1/2017								
5/2/2017								

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29I	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	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		8.2	30.4					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29I	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	1.6	7.9						
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	1.7	9.1				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	0.99 (J)	7.2	26.2				11.7	22.9
9/25/2020								
3/1/2021				51.6				
3/2/2021					156			
3/3/2021	4.9	8.6	26.6			10.6		
3/4/2021							12	21.5

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-14S (bg)
6/1/2016	150	54	120						
6/2/2016				130	160	66	96	36	46
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	135	48						50	
7/26/2016			94	141	177	78	92		54
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016		67	105						
9/14/2016	127				187	73	102		
9/15/2016				153					54
9/16/2016									
9/19/2016								35	
9/20/2016									
9/21/2016									
11/1/2016	75		44	92				<25	
11/2/2016					181		115		71
11/3/2016									
11/4/2016		60				75			
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									45
1/11/2017	148		107	159					
1/12/2017					202	86			
1/13/2017							67		
1/16/2017		65						47	
1/18/2017									
1/19/2017									
2/21/2017								<25	
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	182								
3/2/2017		61	98	117					
3/3/2017									
3/6/2017							159		
3/7/2017					257	108			
3/8/2017									178
4/26/2017	92			181				55	52
4/27/2017		31	116						
4/28/2017									
5/1/2017					165		107		
5/2/2017						103			

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-14S (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								42	45
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							95		40
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				95		142	90		
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	86	116		
10/1/2018	138	60	117	165					50
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 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-14S (bg)
4/2/2019									
4/3/2019					142	83	111		
6/12/2019									
9/24/2019		54	124		129	79			
9/25/2019	159			157			117	51	64
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					104	75	83		
9/23/2020	155	15	108	157					
9/24/2020								51	
9/25/2020									54
3/1/2021								23	
3/2/2021					52	67			67
3/3/2021	111	39	99	137			80		
3/4/2021									

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	58	120							
6/7/2016			38	28	60				
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	45		68				
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			46		76				
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			164		167				
3/7/2017									
3/8/2017									
4/26/2017	36	162	34		50				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				142					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (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			68	53	94				
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		54	61					
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	73	86	122				
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 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
4/2/2019				72	134		223	224	
4/3/2019	63	89	57						
6/12/2019									
9/24/2019					157				
9/25/2019			75	81			225	190	
9/26/2019	72	126				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	59	91	76	71	117				
3/25/2020									
9/22/2020									
9/23/2020	81	103		99					
9/24/2020			69		113	185	212	171	186
9/25/2020									
3/1/2021									
3/2/2021								154	
3/3/2021	37	95	53	57		178	205		173
3/4/2021					110				

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	210	240	150					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	202	226	155					
8/30/2016				319				
8/31/2016					209			
9/13/2016								
9/14/2016						152		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	216	214	138					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						148		
11/7/2016	399		291					
11/8/2016		229						
11/14/2016				280				
11/28/2016					102			
12/15/2016						191		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						180		
1/18/2017	215 (D)	243 (D)						
1/19/2017			145 (D)					
2/21/2017	198							
2/22/2017		310	185		164			
2/23/2017								
2/24/2017				162				
3/1/2017								
3/2/2017								
3/3/2017						156		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						130		
5/1/2017								
5/2/2017								

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29I	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		217	136					
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		221	139					
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		238	147					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/10/2021 3:51 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29I	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	209	133				170	77
9/25/2020								
3/1/2021				145				
3/2/2021					296			
3/3/2021	217	184	110			138		
3/4/2021							168	57

FIGURE E.

Appendix III Trend Tests - Prediction Limits Exceedances - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 2:57 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**YGWA-21I (bg)**	**-0.006801**	**-60**	**-58**	**Yes**	**16**	**56.25**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.06529**	**-59**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3I (bg)**	**-0.05699**	**-66**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-26S**	**-0.8658**	**-70**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-28I**	**-0.3155**	**-68**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.5003**	**-45**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-17S (bg)**	**0.3002**	**76**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-20S (bg)**	**0.189**	**71**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.9116**	**-83**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-1D (bg)**	**1.091**	**76**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3D (bg)**	**0.4938**	**60**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-47 (bg)**	**-25.19**	**-71**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-39 (bg)**	**-3.687**	**-48**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-40 (bg)**	**-12.05**	**-54**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-5D (bg)**	**-3.891**	**-96**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-5I (bg)**	**0.09335**	**70**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWA-2 (bg)**	**25.64**	**66**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - Prediction Limits Exceedances - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 2:57 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-14S (bg)	-0.00131	-37	-58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0	-2	-58	No	16	25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-23	-58	No	16	68.75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	-18	-58	No	16	75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-28	-58	No	16	81.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	-8	-58	No	16	56.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-23	-58	No	16	87.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-26I	-0.03933	-44	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-26S	0.004704	16	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27I	0.03779	17	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27S	0	-4	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28I	0.006966	2	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28S	0.04804	17	58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-29I	-0.02029	-52	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.001291	-39	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	-0.0002497	-11	-58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-34	-58	No	16	75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	-0.0003285	-14	-58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-15	-58	No	16	87.5	n/a	n/a	0.01	NP
Boron (mg/L)	**YGWA-21I (bg)**	**-0.006801**	**-60**	**-58**	**Yes**	**16**	**56.25**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-39 (bg)	0.002402	14	43	No	13	7.692	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.02279	-41	-43	No	13	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-4I (bg)	0	-17	-58	No	16	62.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0001974	12	58	No	16	12.5	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	-0.0019	-46	-58	No	16	56.25	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	5	48	No	14	57.14	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1626	30	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	-0.02735	-40	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	-0.02869	-33	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.05296	-45	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	0	-21	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.06529**	**-59**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3I (bg)**	**-0.05699**	**-66**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWC-26I	-0.2376	-33	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWC-26S**	**-0.8658**	**-70**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWC-27I	0	-5	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWC-28I**	**-0.3155**	**-68**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWC-28S	-0.1389	-15	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.5003**	**-45**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-17S (bg)**	**0.3002**	**76**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-18I (bg)	0.05099	35	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18S (bg)	0.2082	50	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-20S (bg)**	**0.189**	**71**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-21I (bg)	-0.1117	-28	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.2329	13	43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.1751	26	43	No	13	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-4I (bg)	0.1099	36	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.9116**	**-83**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-5I (bg)	0	-1	-58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.1272	29	48	No	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-14S (bg)	0.09469	17	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-1D (bg)**	**1.091**	**76**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-1I (bg)	-0.2947	-23	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	0.1728	11	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.08892	-28	-58	No	16	12.5	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limits Exceedances - All Results

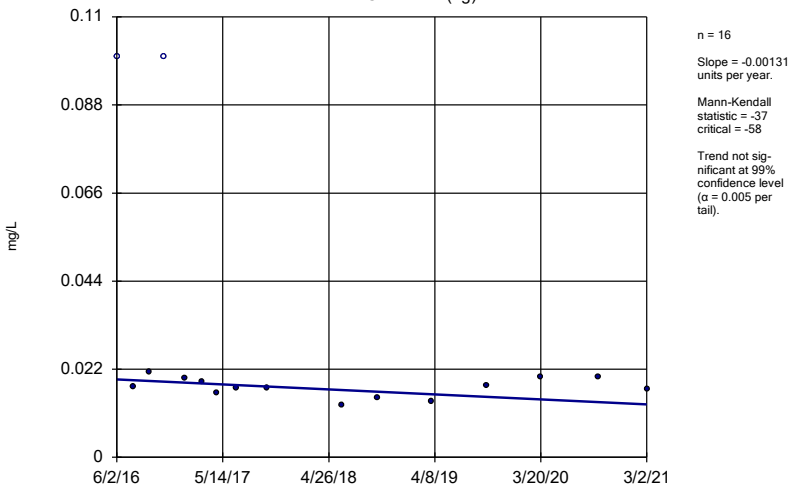
Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 2:57 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	**YGWA-3D (bg)**	**0.4938**	**60**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-3I (bg)	0.6094	45	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWC-27S	-1.986	-54	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-47 (bg)**	**-25.19**	**-71**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-17S (bg)	0.1322	51	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.2007	-54	-58	No	16	25	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18S (bg)	-0.1939	-48	-58	No	16	12.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	24	58	No	16	62.5	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.2852	-25	-58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-39 (bg)**	**-3.687**	**-48**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-40 (bg)**	**-12.05**	**-54**	**-43**	**Yes**	**13**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-4I (bg)	0.1751	39	58	No	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-5D (bg)**	**-3.891**	**-96**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-5I (bg)**	**0.09335**	**70**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**GWA-2 (bg)**	**25.64**	**66**	**48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 16

Slope = -0.00131 units per year.

Mann-Kendall statistic = -37
critical = -58

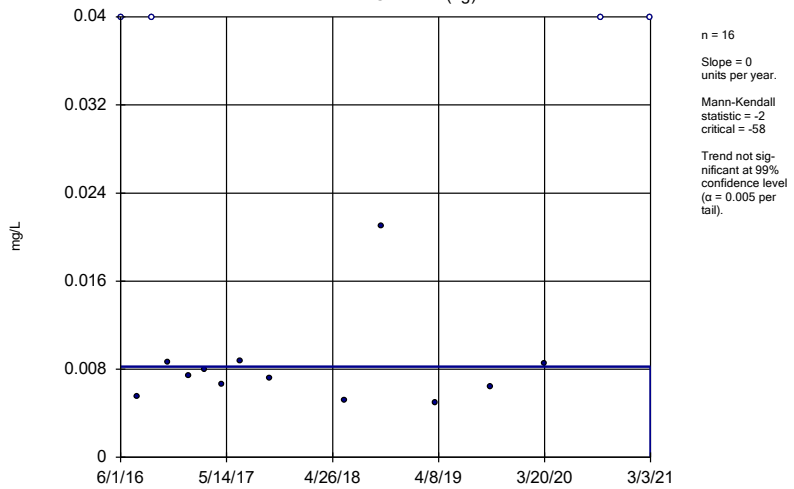
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = -2
critical = -58

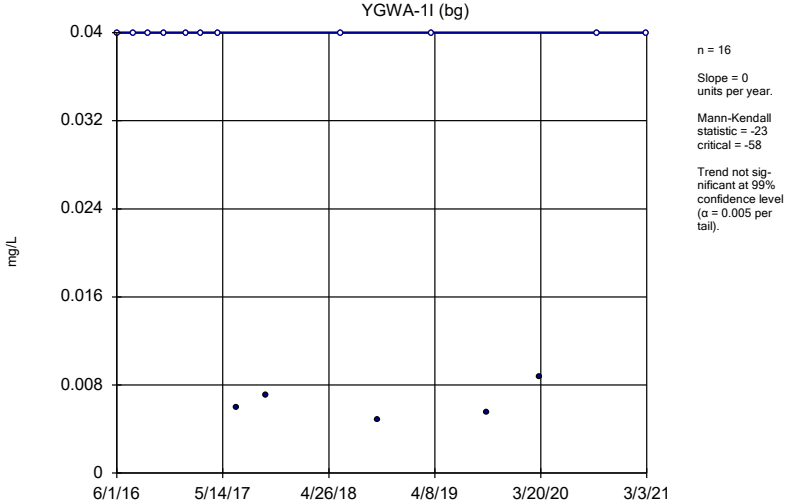
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = -23
critical = -58

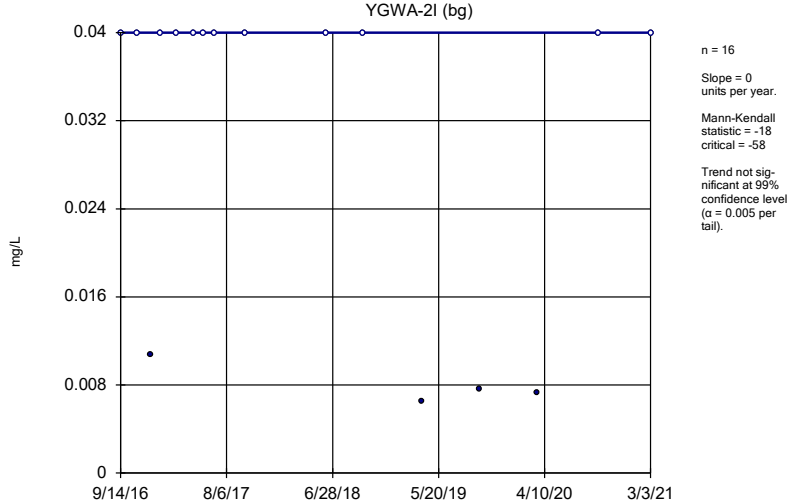
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = -18
critical = -58

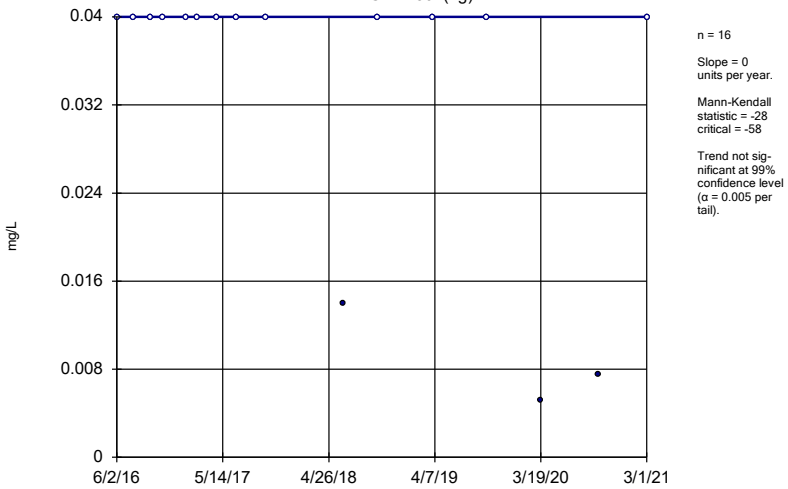
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = -28
critical = -58

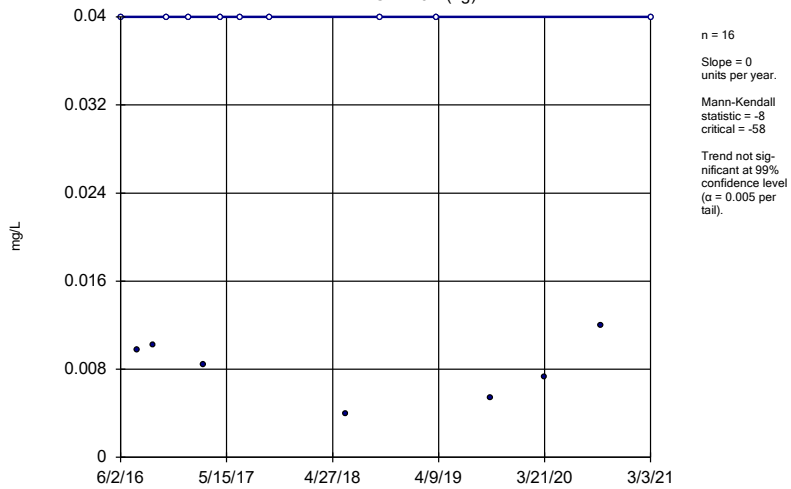
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = -8
critical = -58

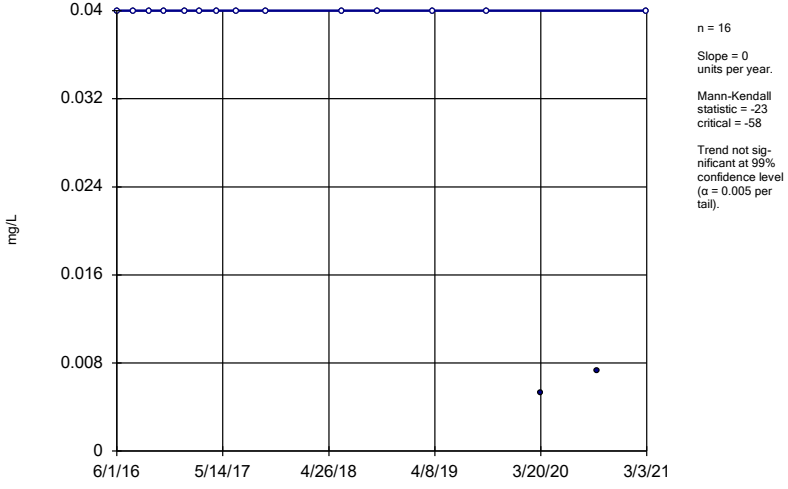
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = -23
critical = -58

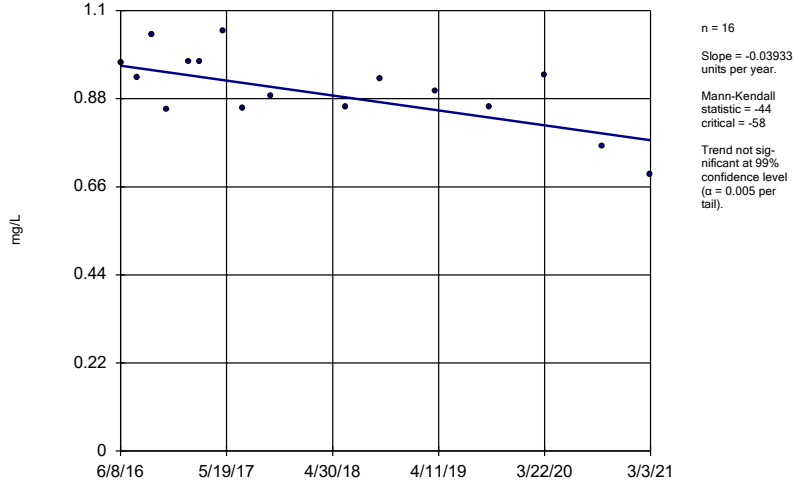
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-26I



n = 16

Slope = -0.03933 units per year.

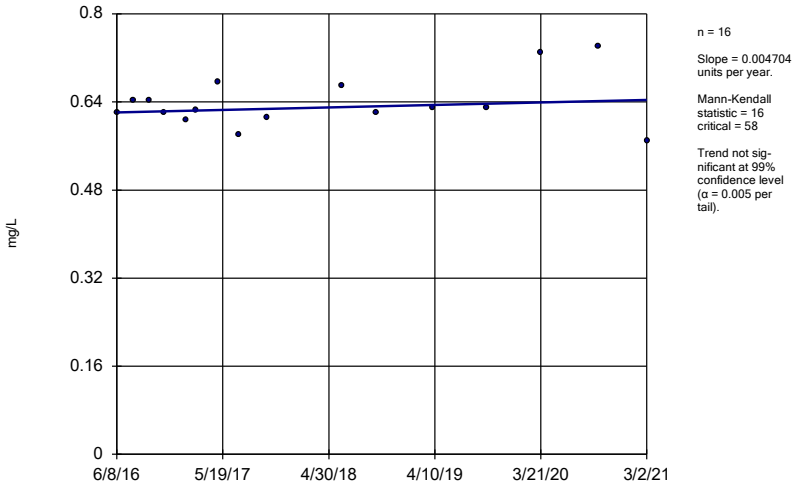
Mann-Kendall statistic = -44
critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-26S



n = 16

Slope = 0.004704 units per year.

Mann-Kendall statistic = 16
critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

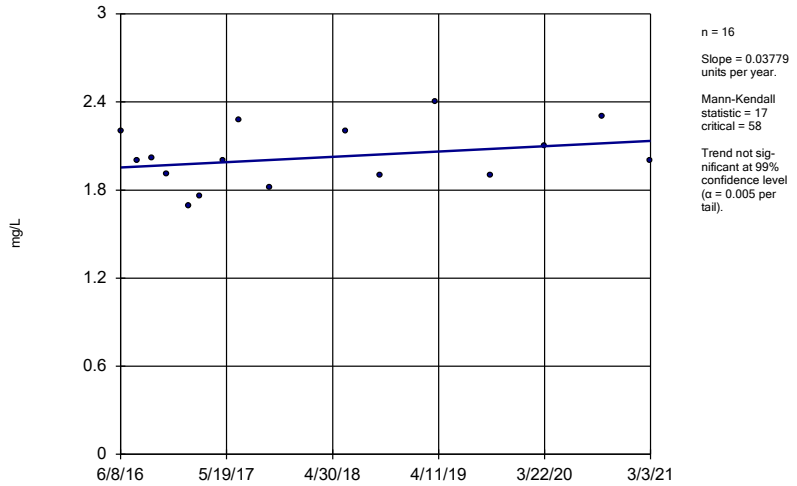
Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-27I



n = 16

Slope = 0.03779 units per year.

Mann-Kendall statistic = 17
critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

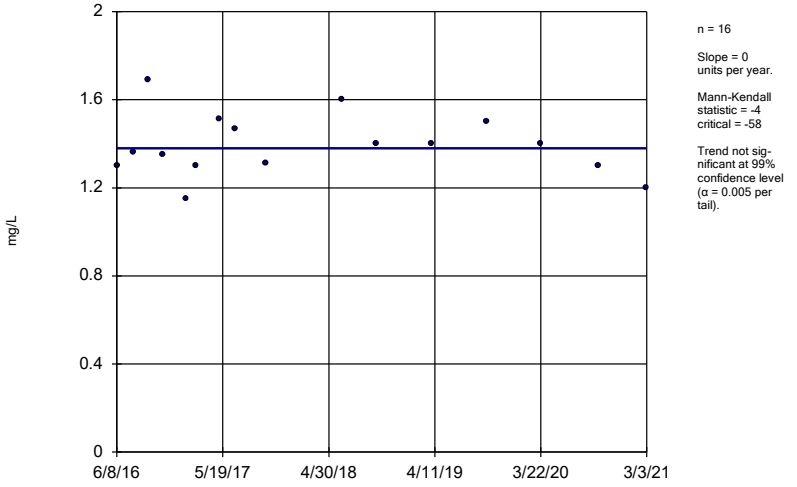
Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-27S



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = -4
critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

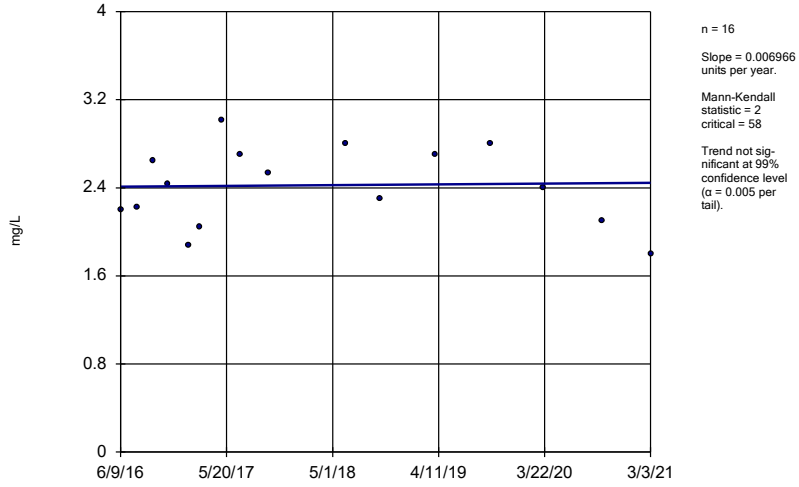
Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-28I



n = 16

Slope = 0.006966 units per year.

Mann-Kendall statistic = 2
critical = 58

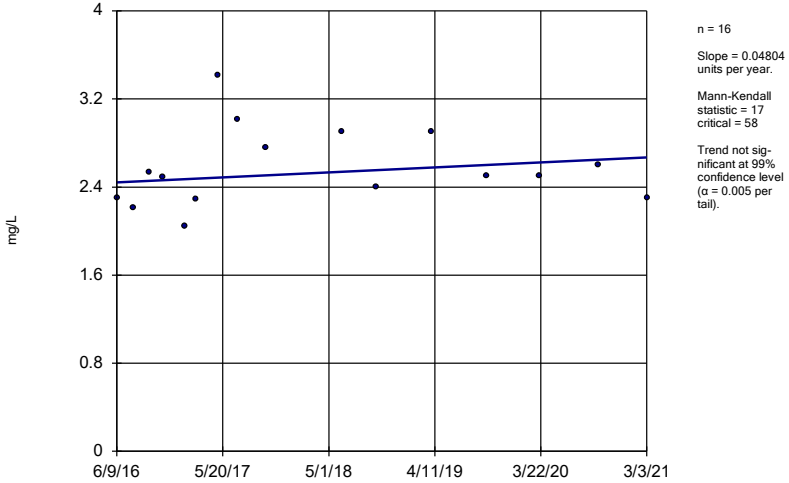
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-28S



n = 16

Slope = 0.04804 units per year.

Mann-Kendall statistic = 17
critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

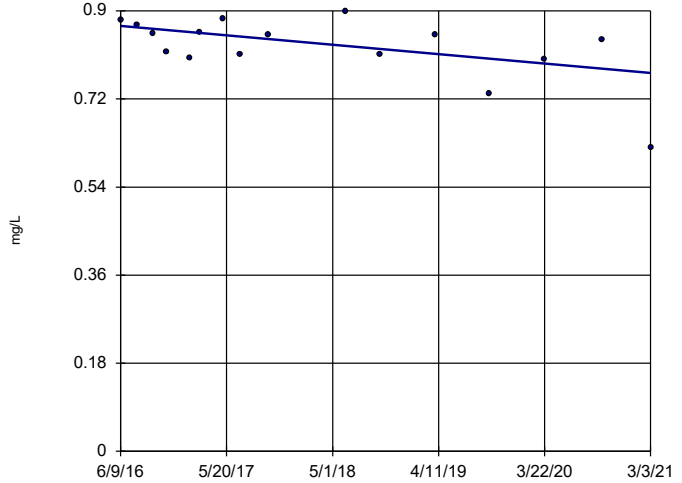
Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-29I



n = 16

Slope = -0.02029 units per year.

Mann-Kendall statistic = -52
critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

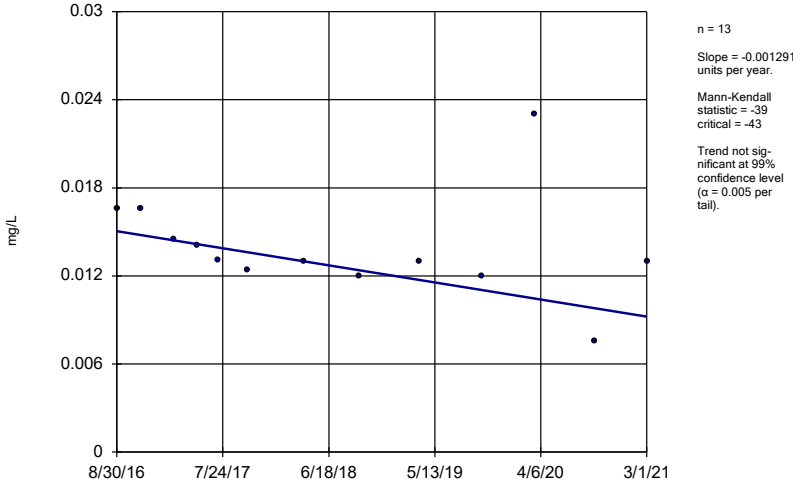
Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 13

Slope = -0.001291 units per year.

Mann-Kendall statistic = -39
critical = -43

Trend not significant at 99% confidence level (α = 0.005 per tail).

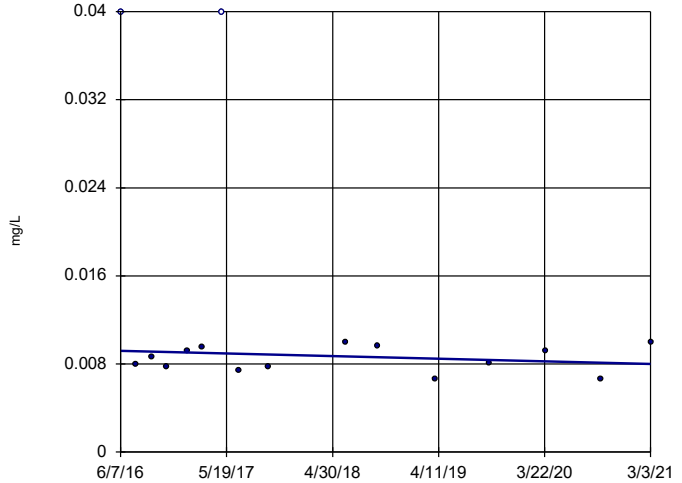
Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 16

Slope = -0.0002497 units per year.

Mann-Kendall statistic = -11
critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

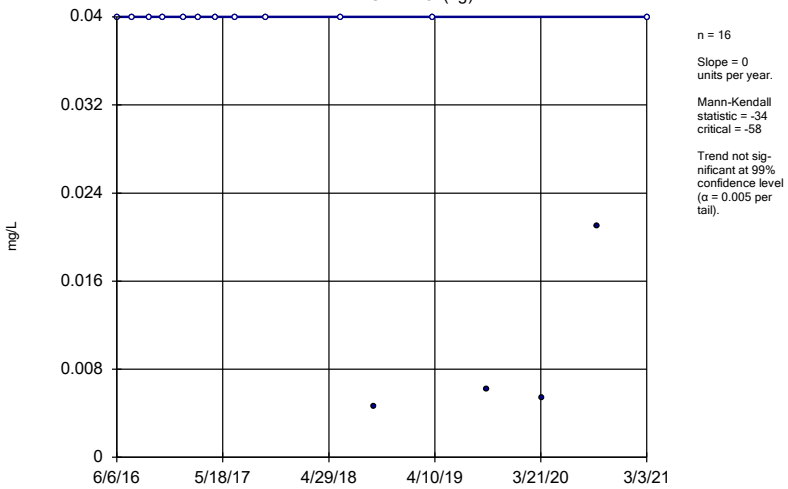
Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = -34
critical = -58

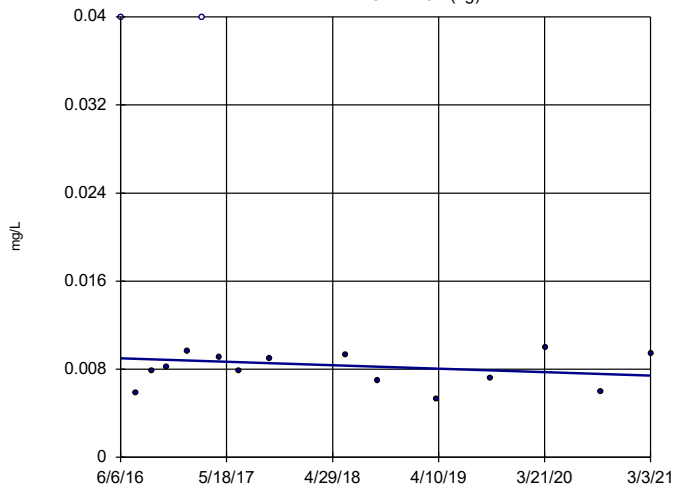
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 16

Slope = -0.0003285 units per year.

Mann-Kendall statistic = -14
critical = -58

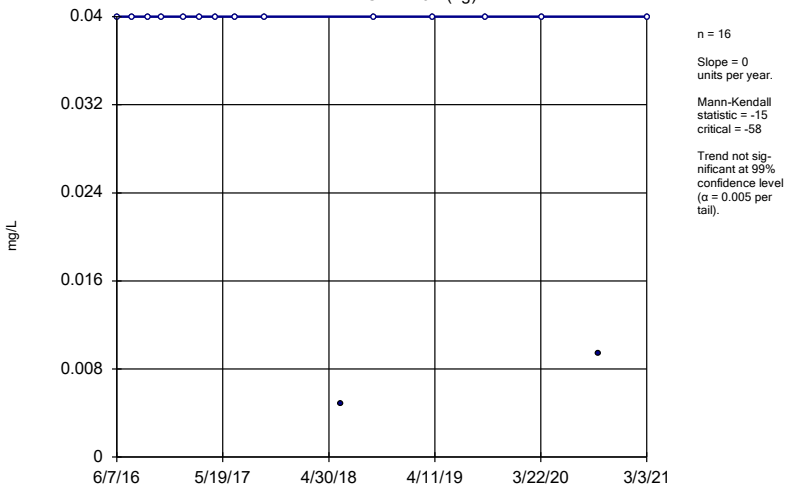
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = -15
critical = -58

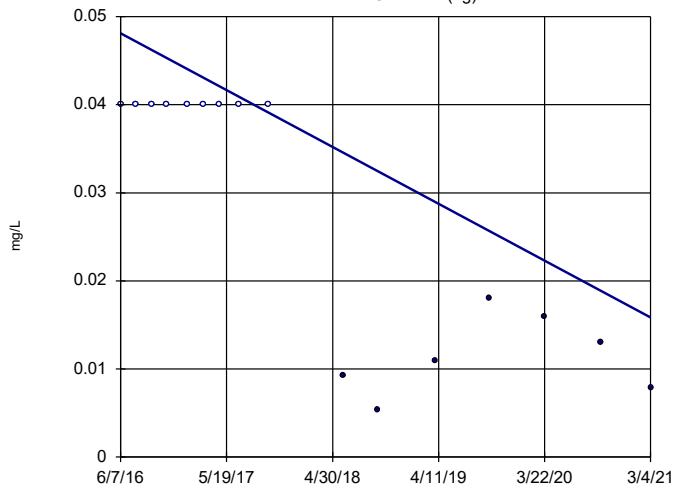
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 16

Slope = -0.006801 units per year.

Mann-Kendall statistic = -60
critical = -58

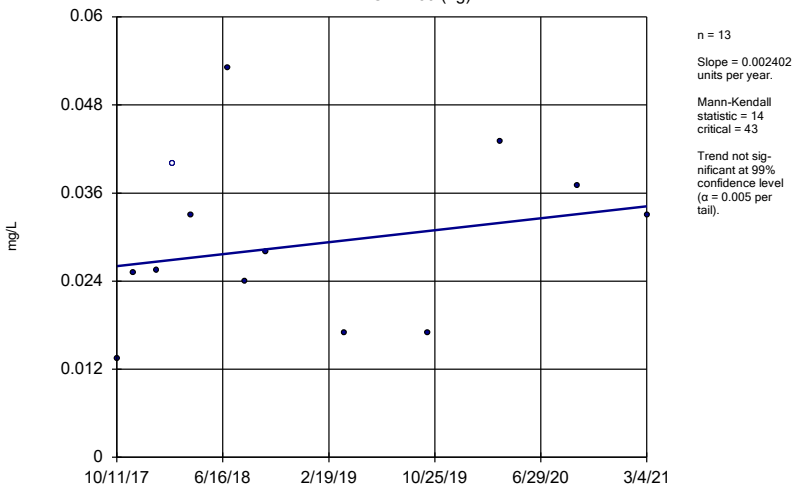
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 13

Slope = 0.002402 units per year.

Mann-Kendall statistic = 14
critical = 43

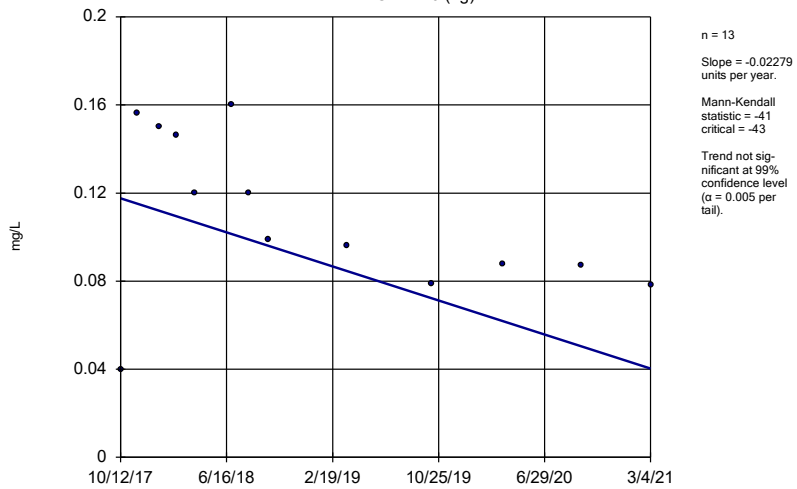
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 13

Slope = -0.02279 units per year.

Mann-Kendall statistic = -41
critical = -43

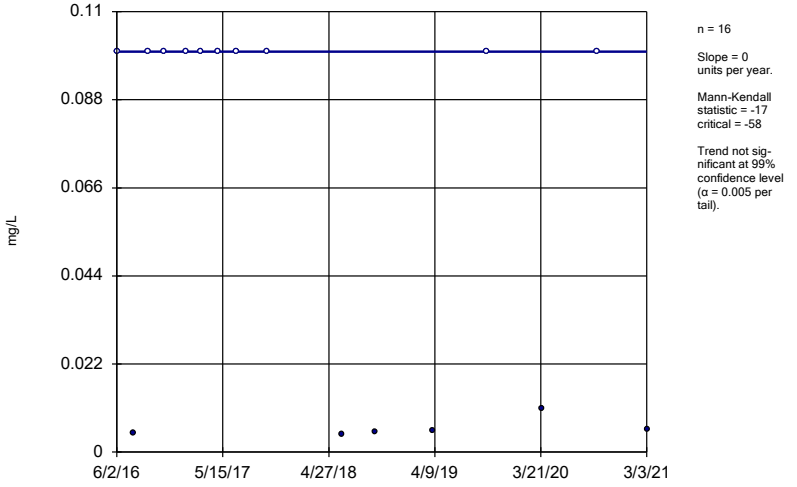
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = -17
critical = -58

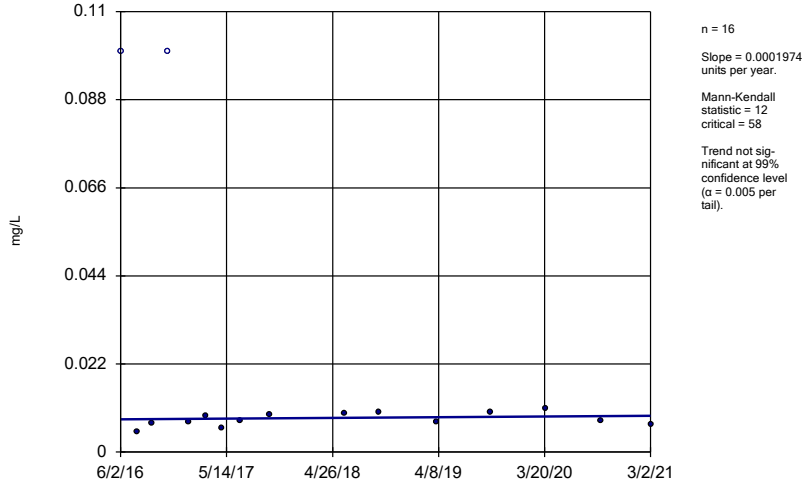
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 16

Slope = 0.0001974 units per year.

Mann-Kendall statistic = 12
critical = 58

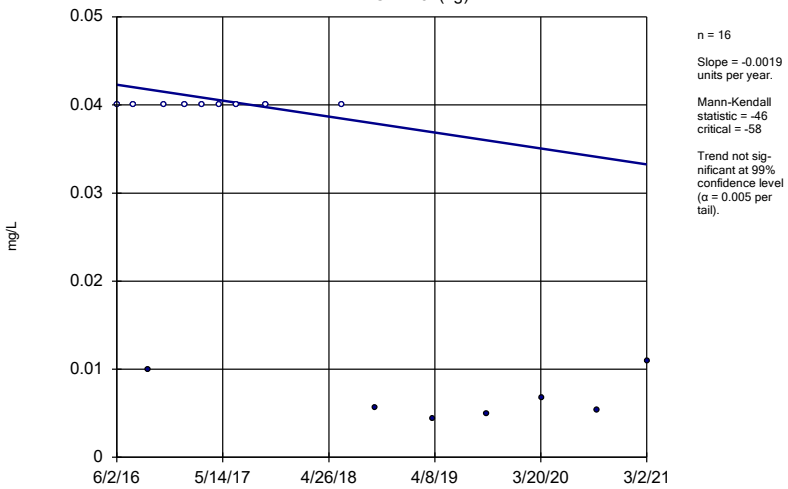
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 16

Slope = -0.0019 units per year.

Mann-Kendall statistic = -46
critical = -58

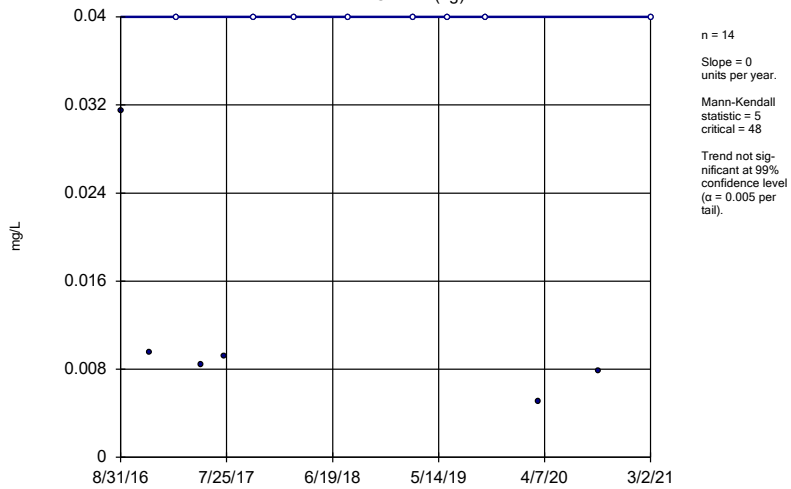
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 14

Slope = 0 units per year.

Mann-Kendall statistic = 5
critical = 48

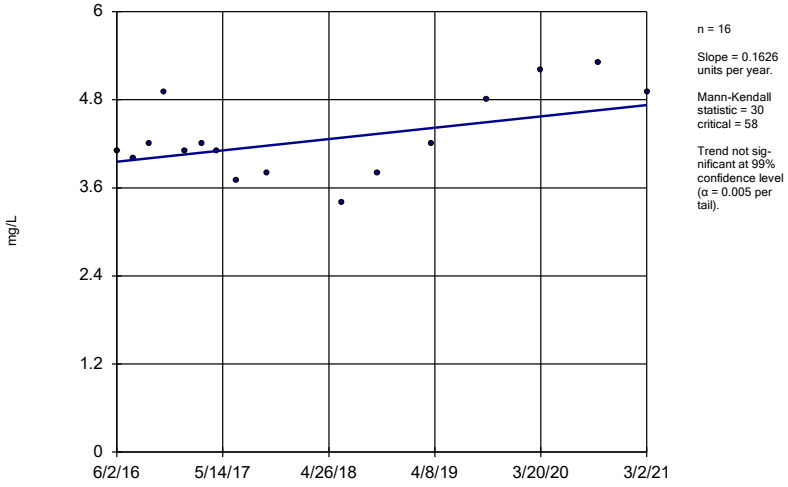
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 16

Slope = 0.1626 units per year.

Mann-Kendall statistic = 30
critical = 58

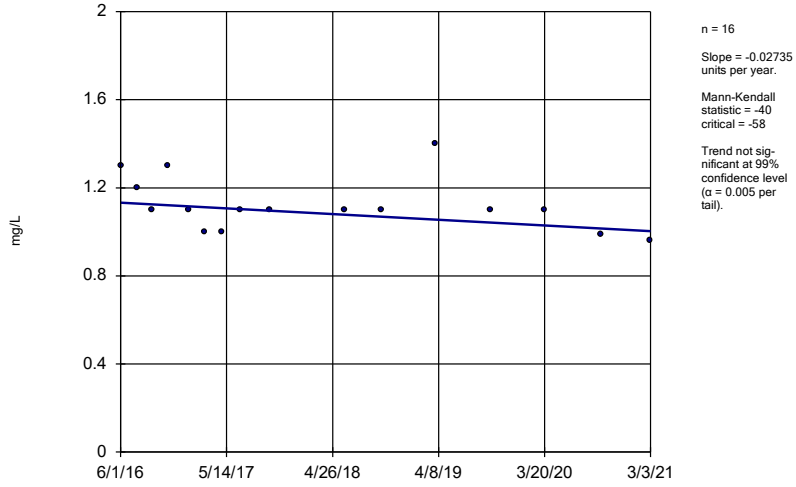
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 16

Slope = -0.02735 units per year.

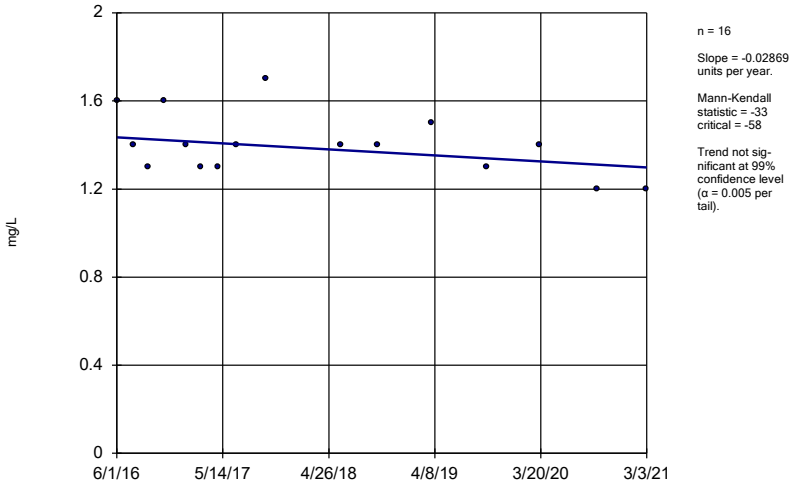
Mann-Kendall statistic = -40
critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-1I (bg)



n = 16

Slope = -0.02869 units per year.

Mann-Kendall statistic = -33
critical = -58

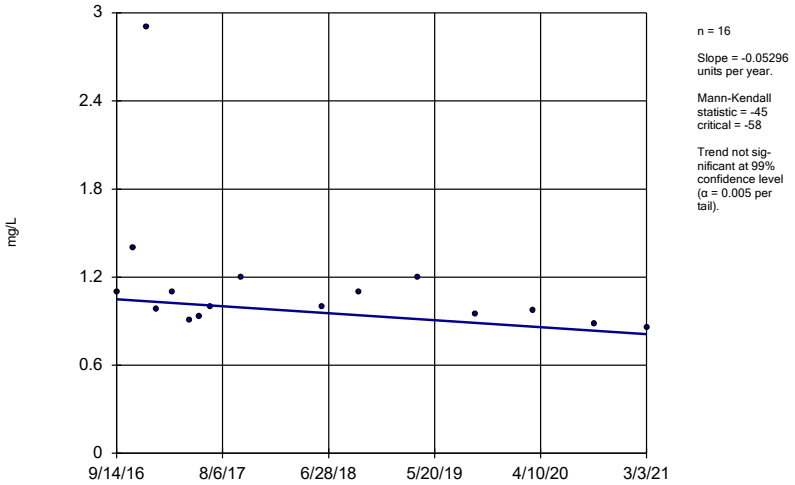
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 16

Slope = -0.05296 units per year.

Mann-Kendall statistic = -45
critical = -58

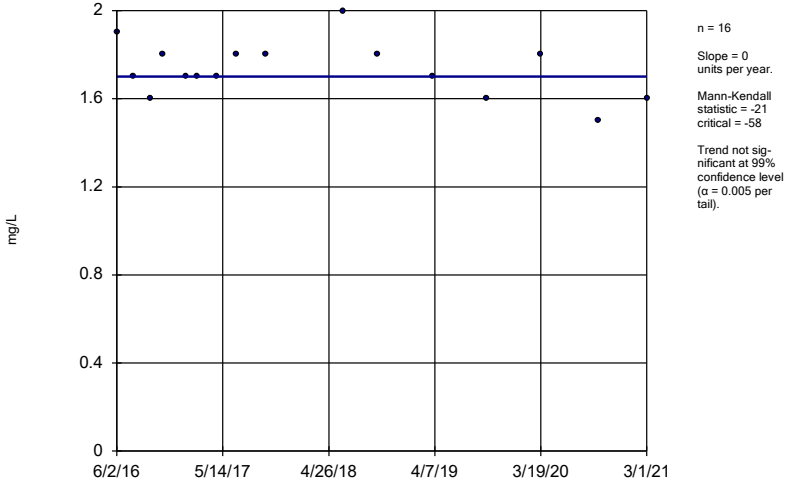
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-30I (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = -21
critical = -58

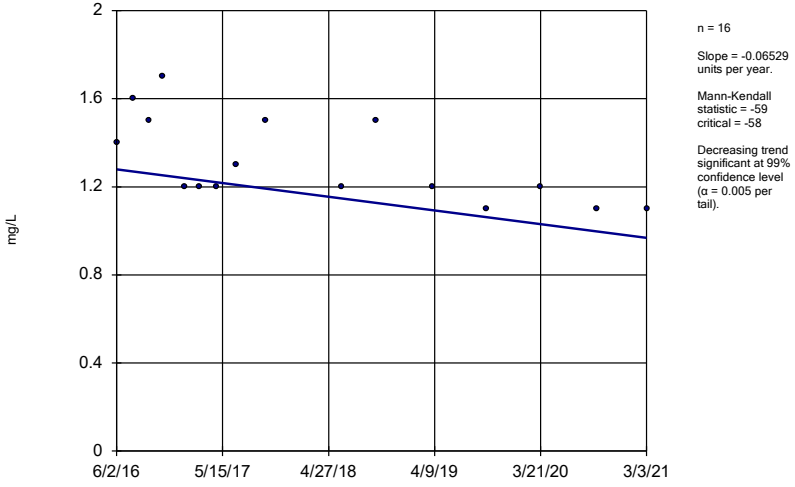
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 16

Slope = -0.06529 units per year.

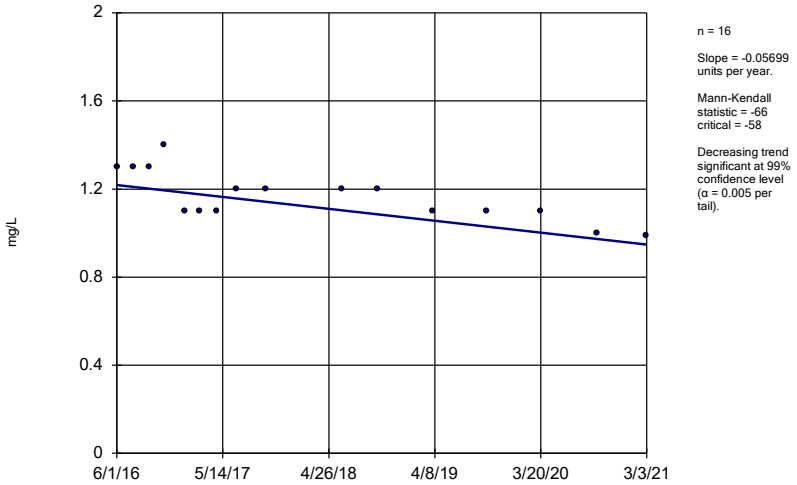
Mann-Kendall statistic = -59
critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3I (bg)



n = 16

Slope = -0.05699 units per year.

Mann-Kendall statistic = -66 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

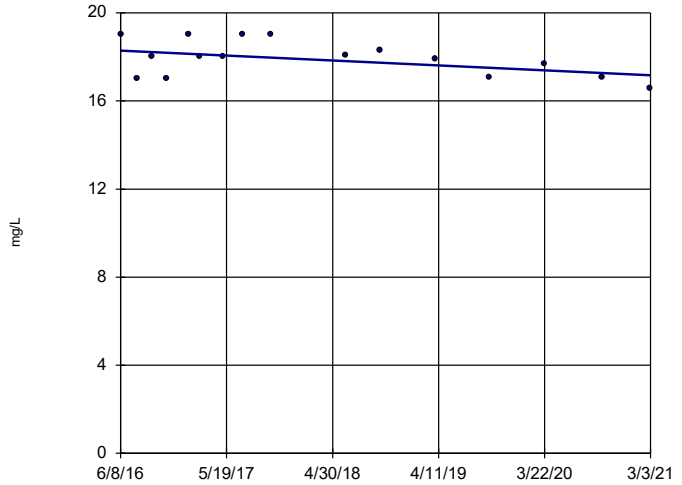
Constituent: Chloride Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-26I



n = 16

Slope = -0.2376 units per year.

Mann-Kendall statistic = -33 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

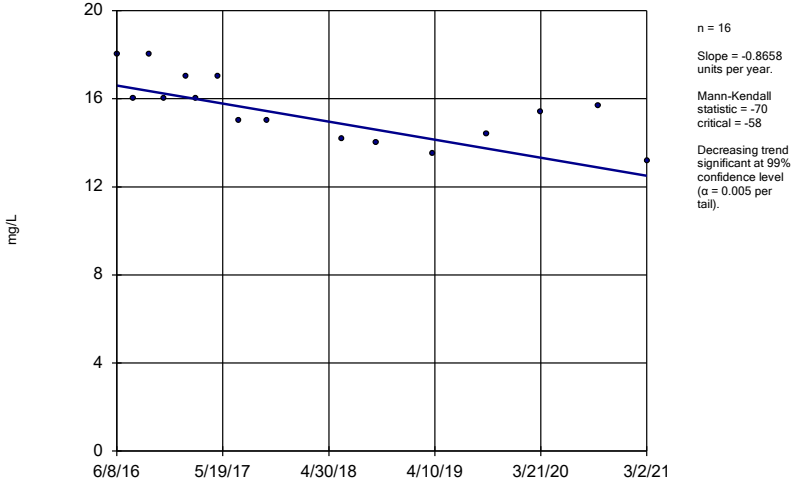
Constituent: Chloride Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-26S



n = 16

Slope = -0.8658 units per year.

Mann-Kendall statistic = -70 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

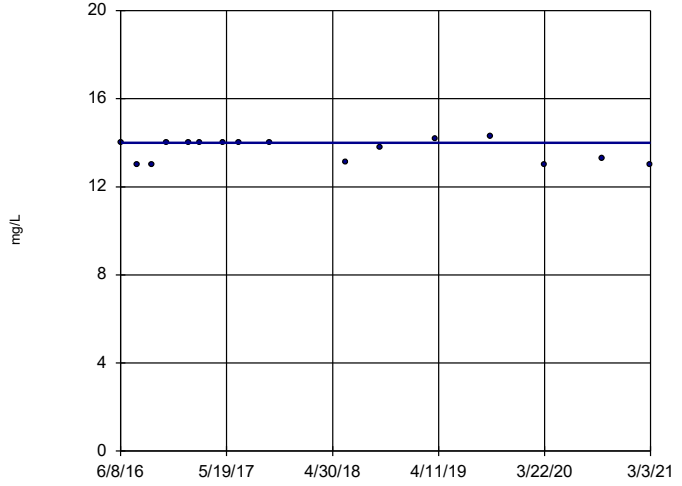
Constituent: Chloride Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-27I



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = -5 critical = -58

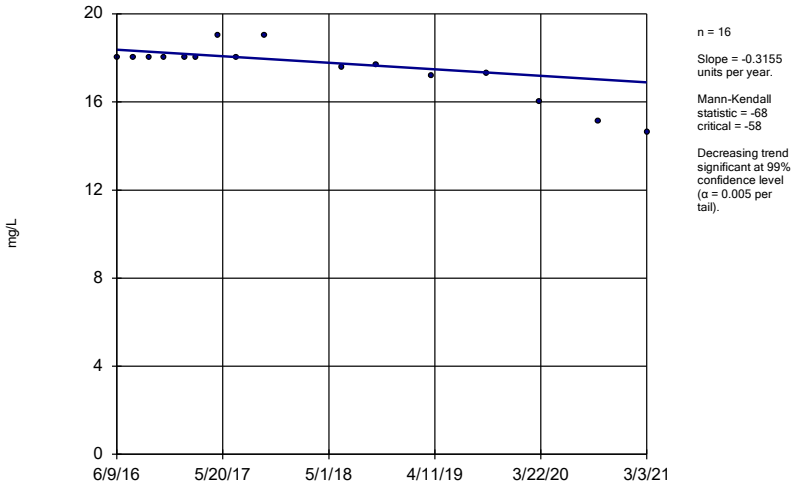
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-28I



n = 16

Slope = -0.3155 units per year.

Mann-Kendall statistic = -68
critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

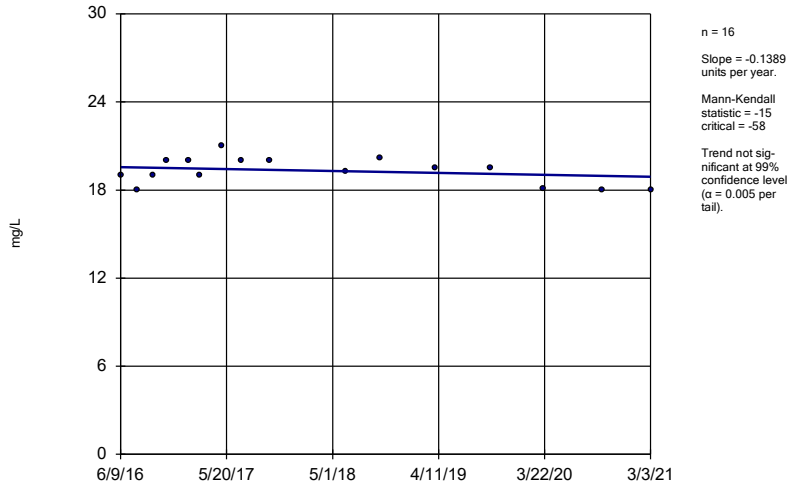
Constituent: Chloride Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-28S



n = 16

Slope = -0.1389 units per year.

Mann-Kendall statistic = -15
critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

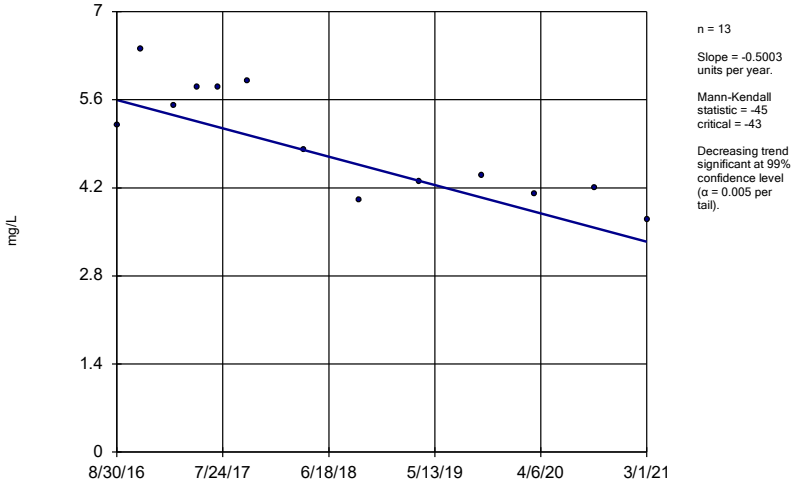
Constituent: Chloride Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 13

Slope = -0.5003 units per year.

Mann-Kendall statistic = -45
critical = -43

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

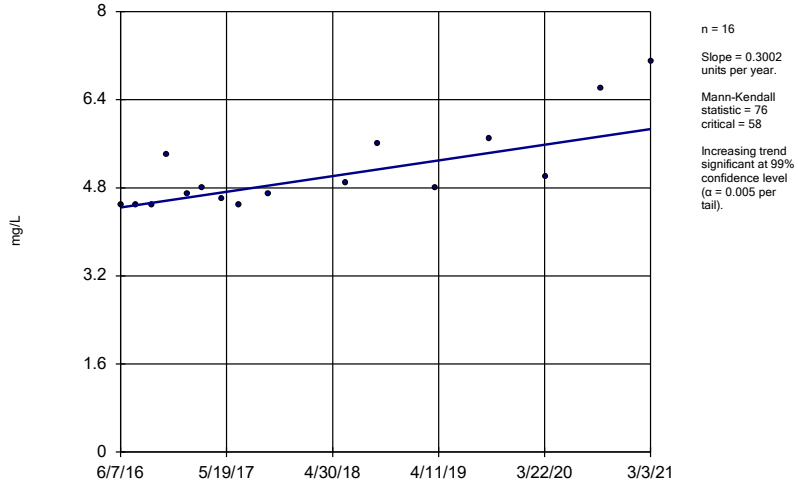
Constituent: Chloride Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 16

Slope = 0.3002 units per year.

Mann-Kendall statistic = 76
critical = 58

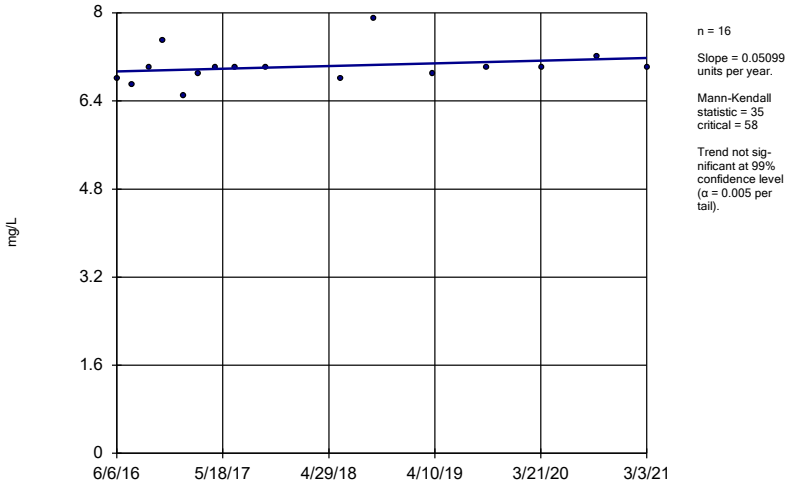
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/7/2021 2:55 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-18I (bg)



n = 16

Slope = 0.05099 units per year.

Mann-Kendall statistic = 35
critical = 58

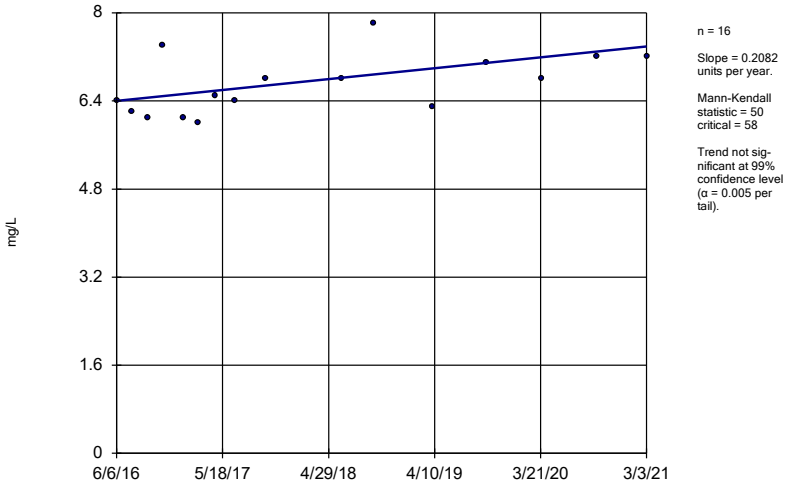
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 16

Slope = 0.2082 units per year.

Mann-Kendall statistic = 50
critical = 58

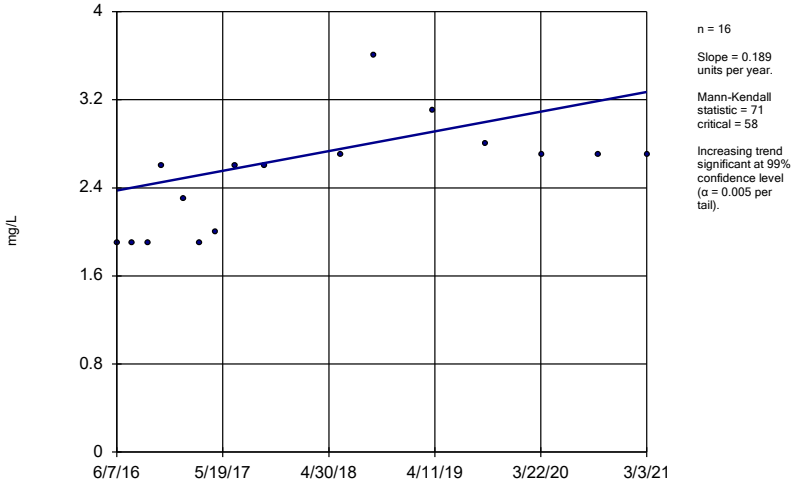
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-20S (bg)



n = 16

Slope = 0.189 units per year.

Mann-Kendall statistic = 71
critical = 58

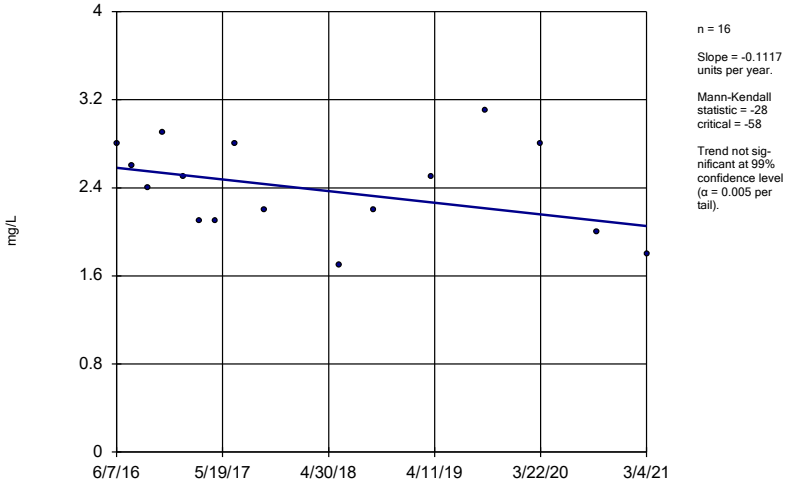
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 16

Slope = -0.1117 units per year.

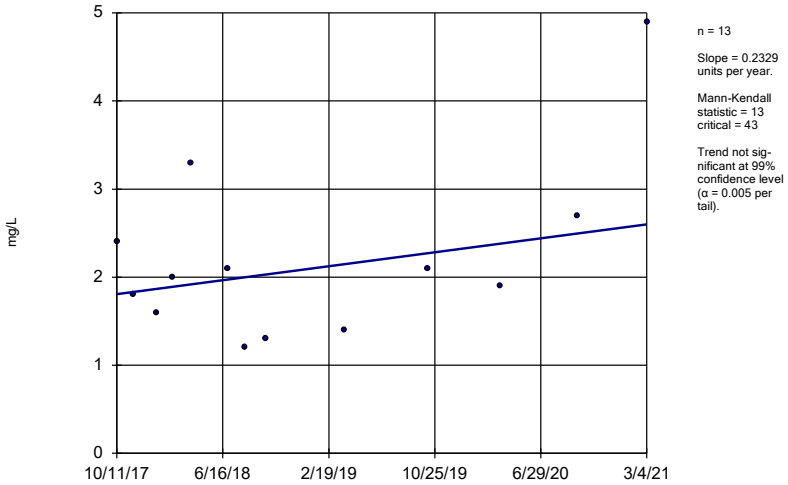
Mann-Kendall statistic = -28
critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-39 (bg)



n = 13

Slope = 0.2329 units per year.

Mann-Kendall statistic = 13 critical = 43

Trend not significant at 99% confidence level (α = 0.005 per tail).

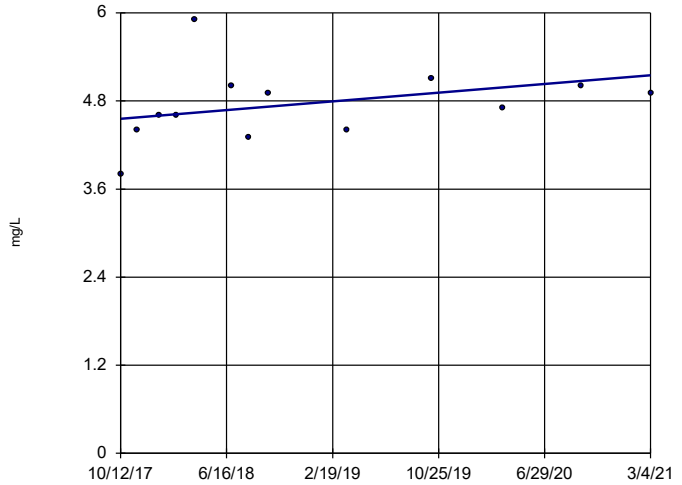
Constituent: Chloride Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 13

Slope = 0.1751 units per year.

Mann-Kendall statistic = 26 critical = 43

Trend not significant at 99% confidence level (α = 0.005 per tail).

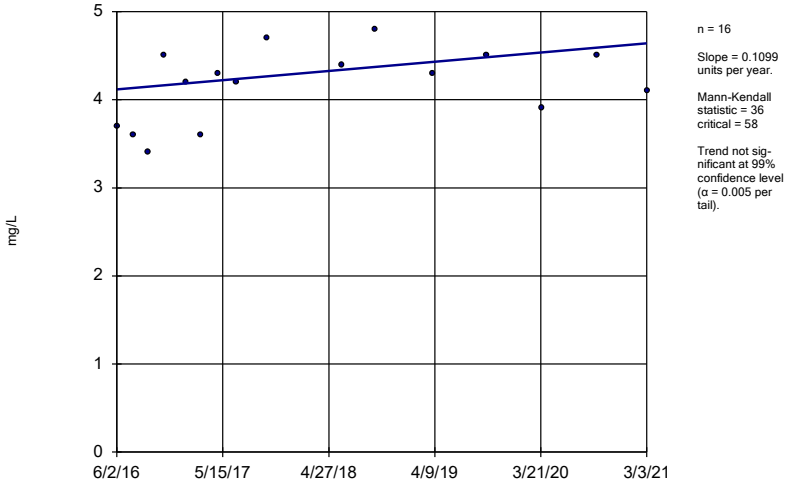
Constituent: Chloride Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 16

Slope = 0.1099 units per year.

Mann-Kendall statistic = 36 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

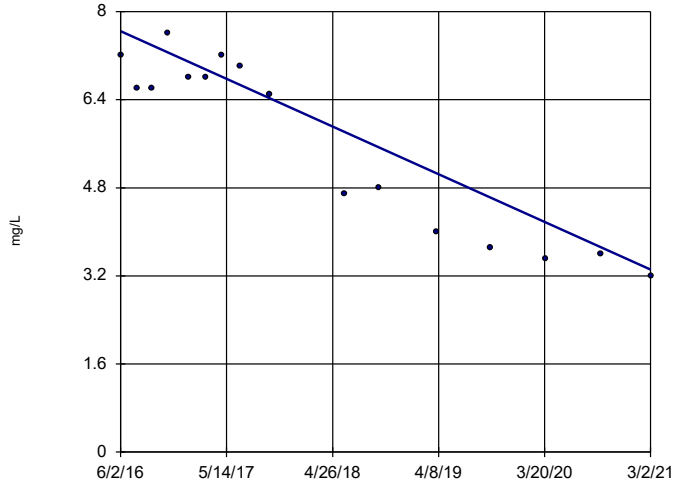
Constituent: Chloride Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 16

Slope = -0.9116 units per year.

Mann-Kendall statistic = -83 critical = -58

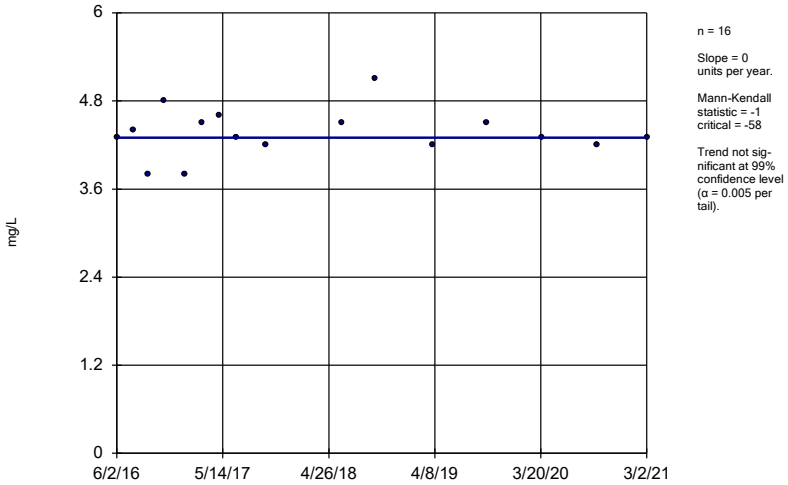
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-5I (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = -1 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

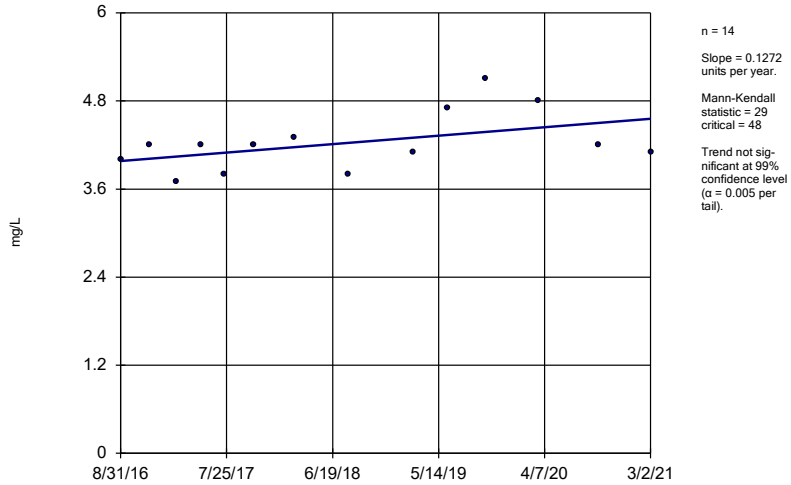
Constituent: Chloride Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWA-2 (bg)



n = 14

Slope = 0.1272 units per year.

Mann-Kendall statistic = 29 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

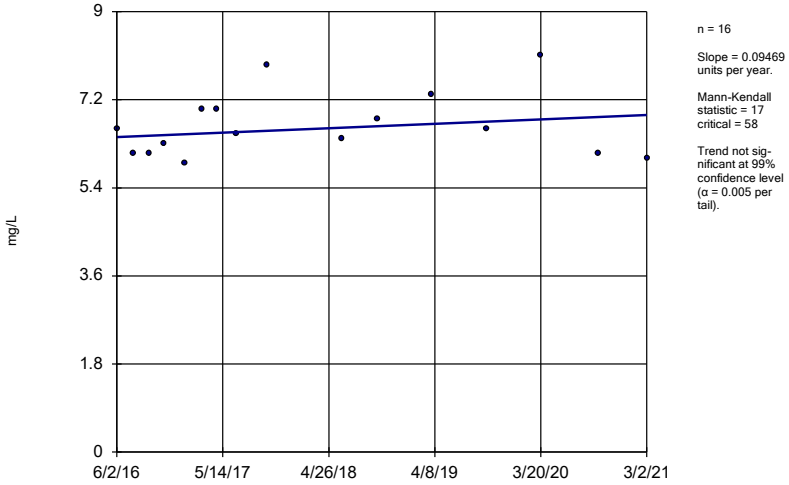
Constituent: Chloride Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 16

Slope = 0.09469 units per year.

Mann-Kendall statistic = 17 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

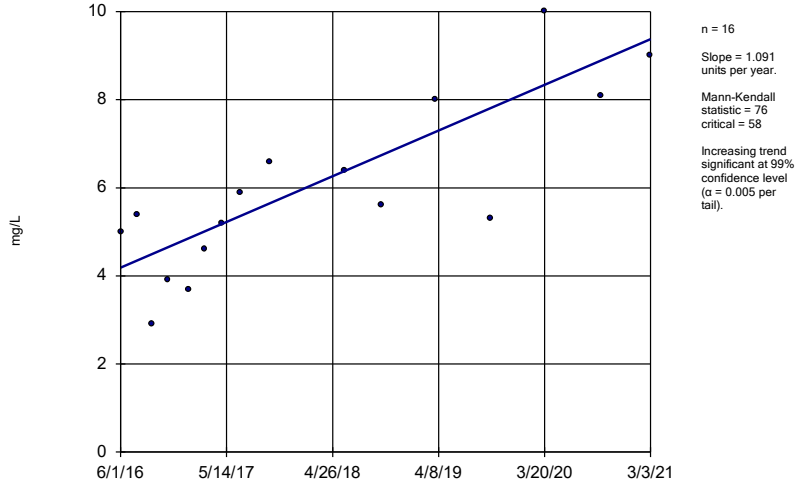
Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 16

Slope = 1.091 units per year.

Mann-Kendall statistic = 76 critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

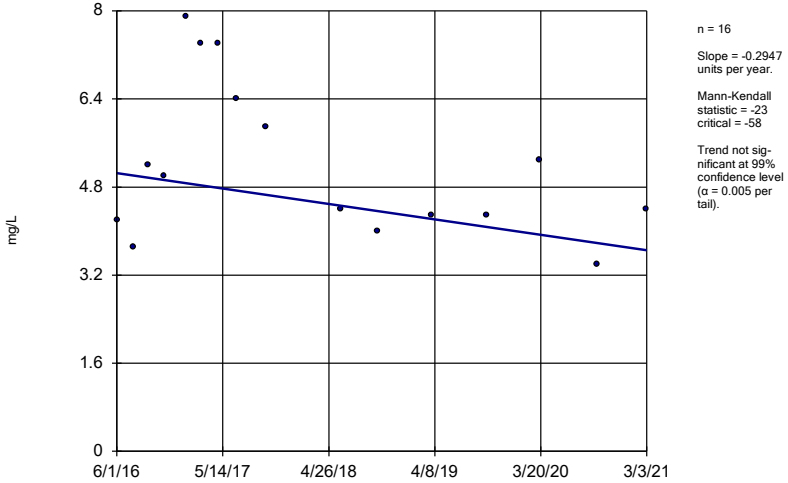
Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1I (bg)



n = 16

Slope = -0.2947 units per year.

Mann-Kendall statistic = -23
critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

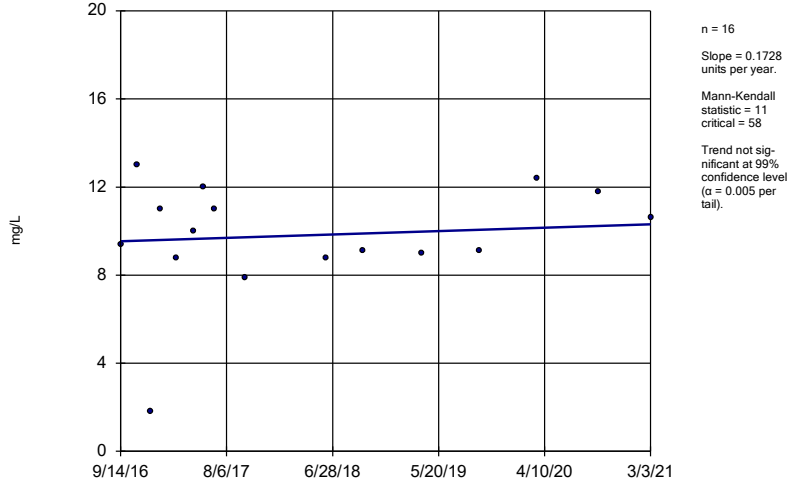
Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 16

Slope = 0.1728 units per year.

Mann-Kendall statistic = 11
critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests

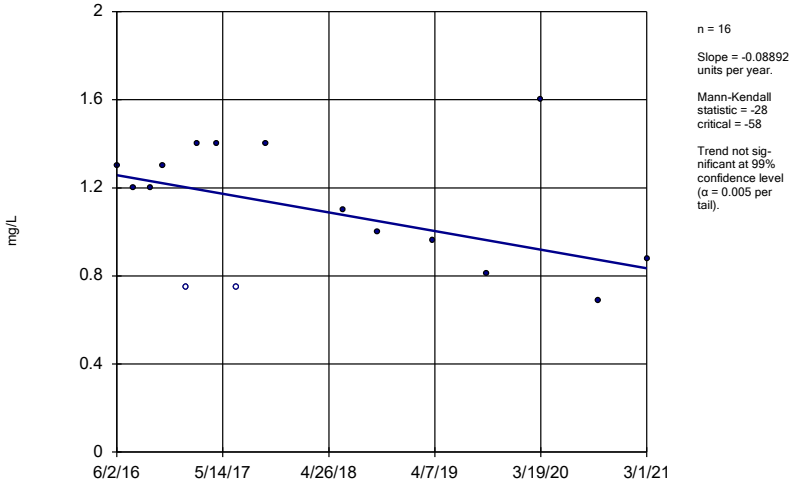
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 16

Slope = -0.08892 units per year.

Mann-Kendall statistic = -28
critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

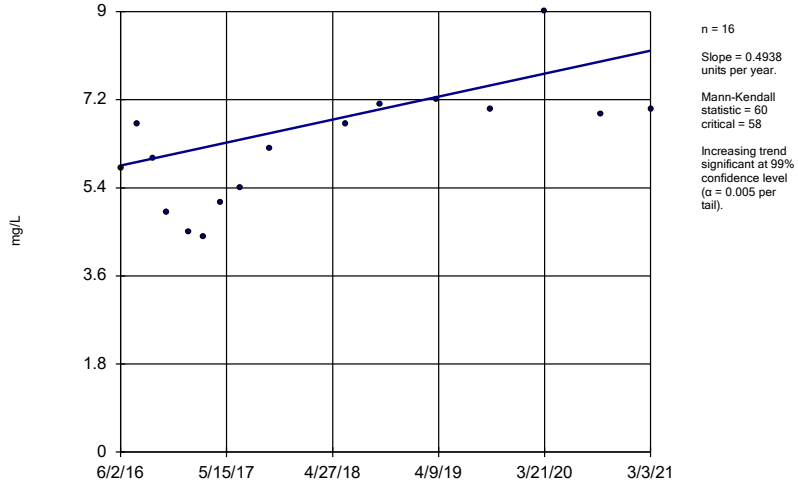
Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 16

Slope = 0.4938 units per year.

Mann-Kendall statistic = 60
critical = 58

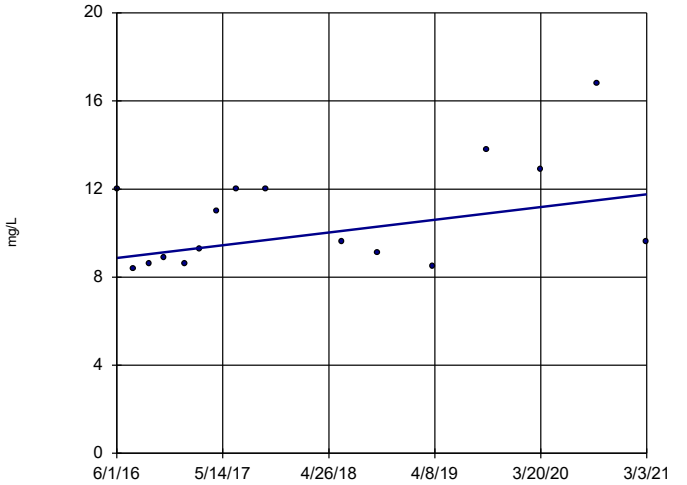
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3I (bg)



n = 16

Slope = 0.6094 units per year.

Mann-Kendall statistic = 45 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

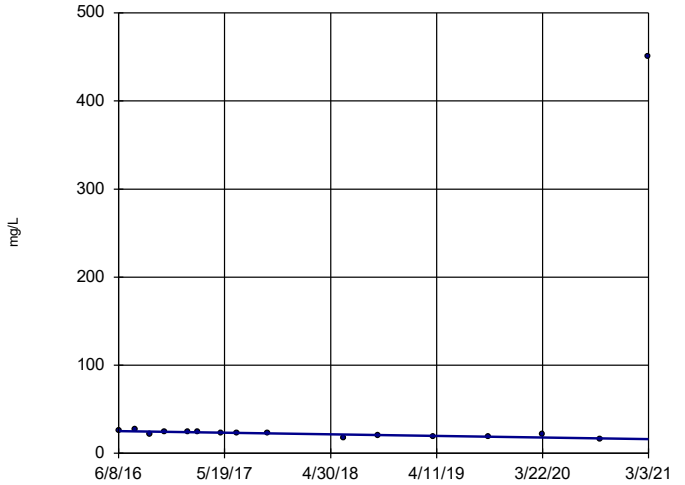
Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-27S



n = 16

Slope = -1.986 units per year.

Mann-Kendall statistic = -54 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

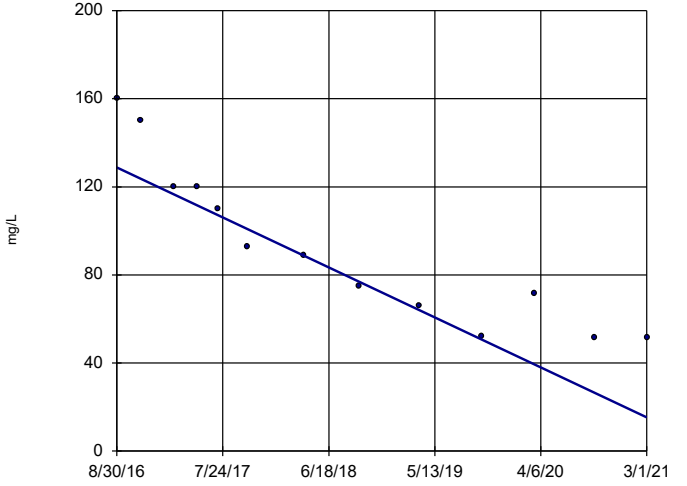
Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 13

Slope = -25.19 units per year.

Mann-Kendall statistic = -71 critical = -43

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

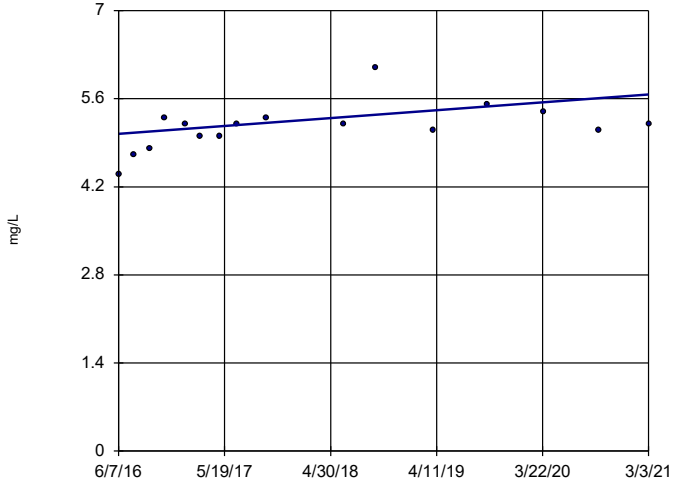
Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 16

Slope = 0.1322 units per year.

Mann-Kendall statistic = 51 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

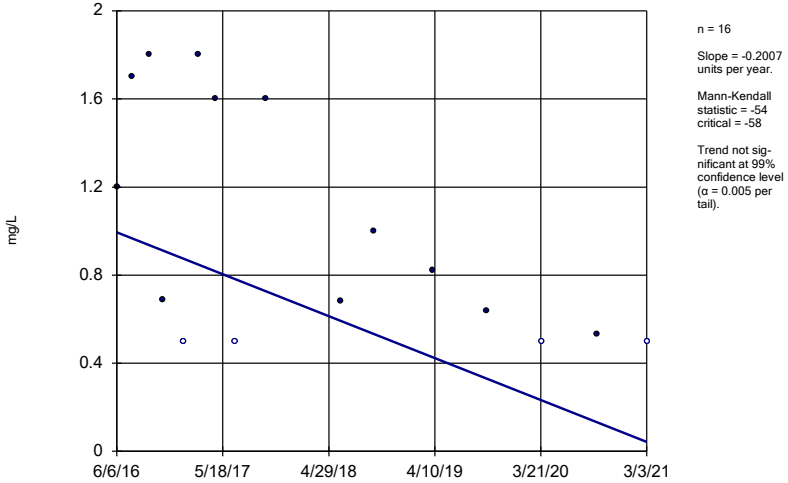
Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 16

Slope = -0.2007 units per year.

Mann-Kendall statistic = -54
critical = -58

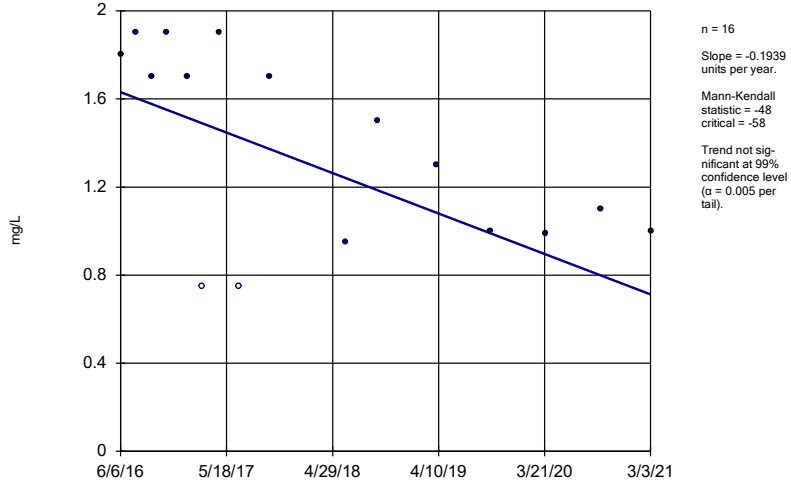
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 16

Slope = -0.1939 units per year.

Mann-Kendall statistic = -48
critical = -58

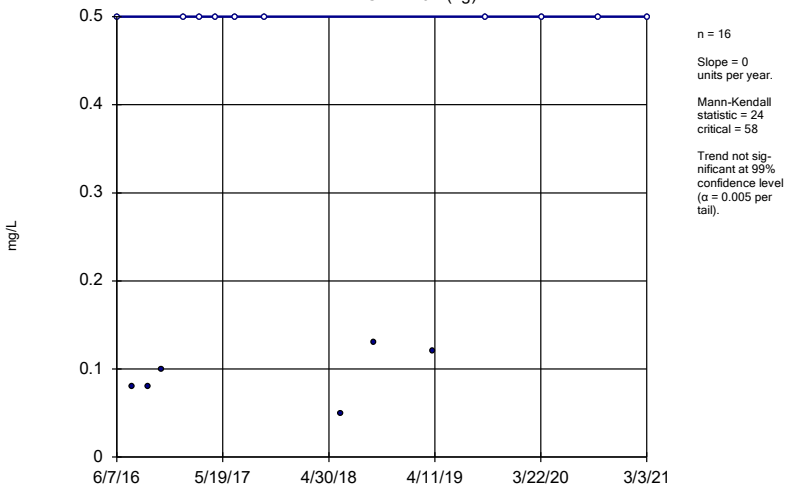
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = 24
critical = 58

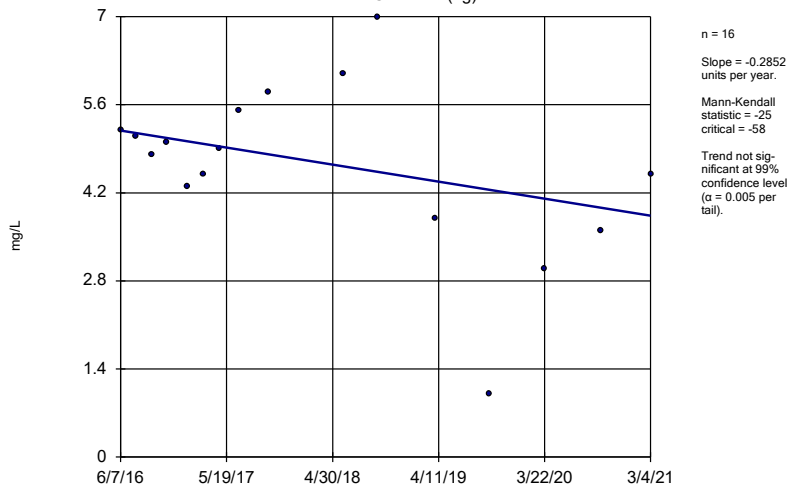
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 16

Slope = -0.2852 units per year.

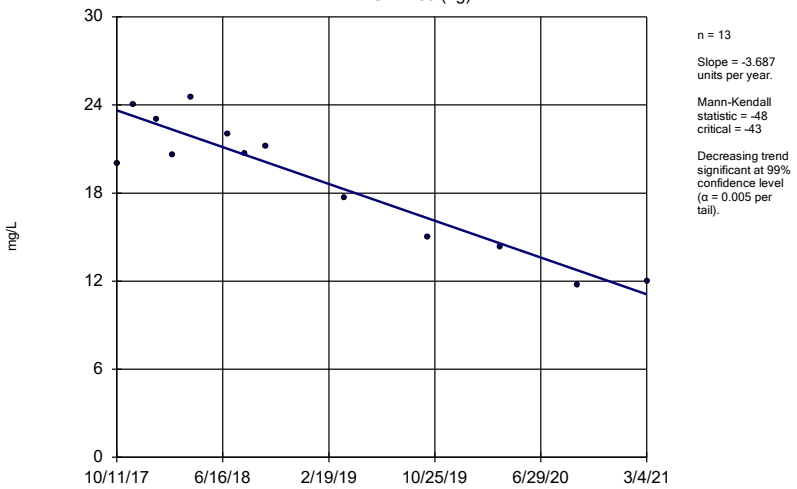
Mann-Kendall statistic = -25
critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-39 (bg)



n = 13

Slope = -3.687 units per year.

Mann-Kendall statistic = -48
critical = -43

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

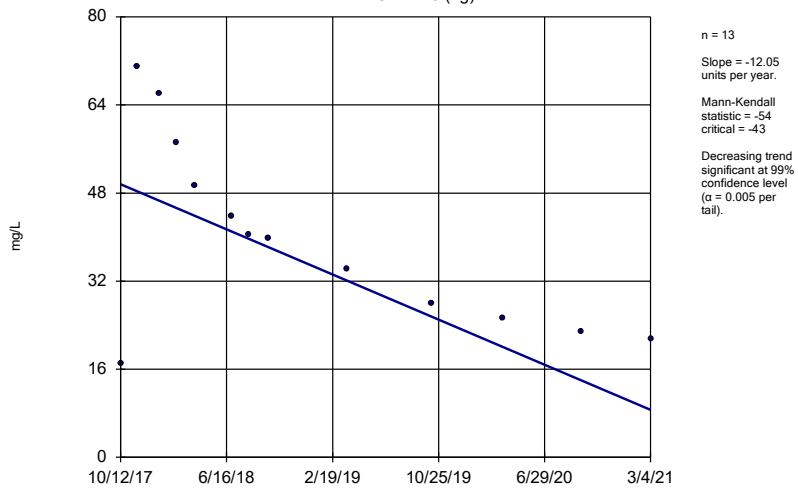
Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 13

Slope = -12.05 units per year.

Mann-Kendall statistic = -54
critical = -43

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

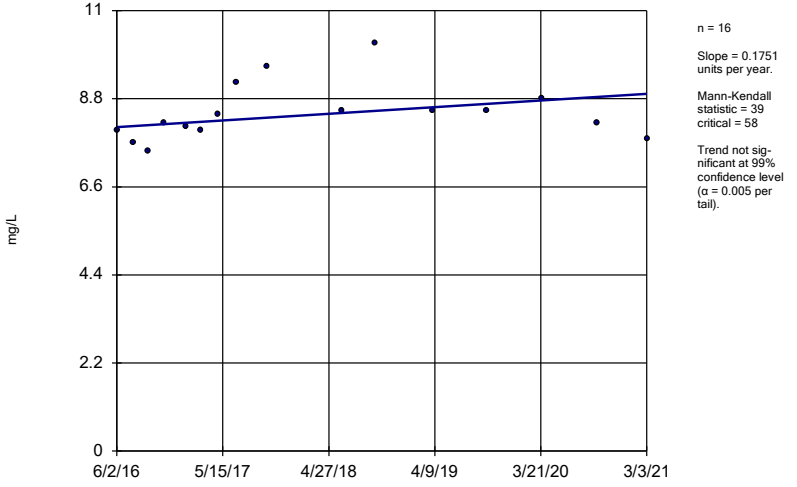
Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 16

Slope = 0.1751 units per year.

Mann-Kendall statistic = 39
critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

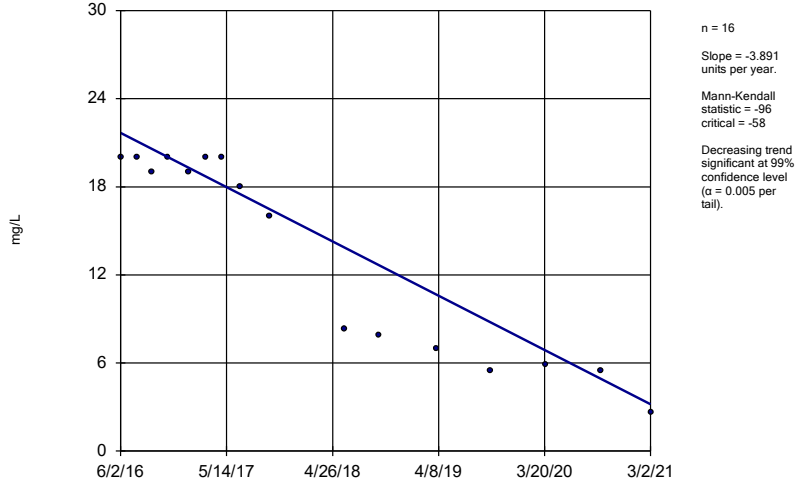
Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 16

Slope = -3.891 units per year.

Mann-Kendall statistic = -96
critical = -58

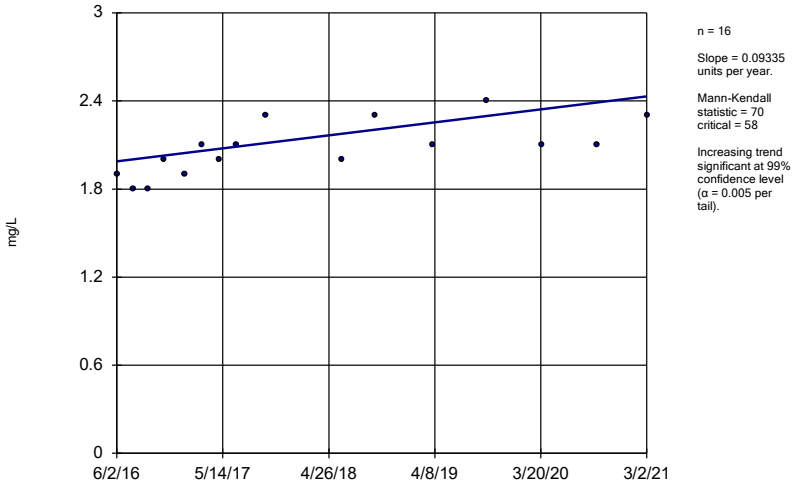
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-5I (bg)



n = 16

Slope = 0.09335 units per year.

Mann-Kendall statistic = 70
critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

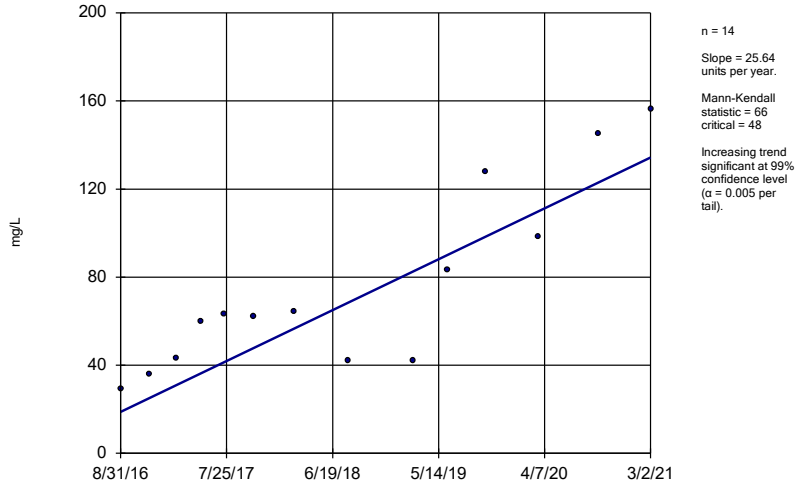
Constituent: Sulfate Analysis Run 5/7/2021 2:56 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWA-2 (bg)



n = 14

Slope = 25.64 units per year.

Mann-Kendall statistic = 66
critical = 48

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/7/2021 2:56 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 5/7/2021, 12:01 PM

Constituent	Upper Lim.	Lower Lim.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0047	n/a	n/a	315	n/a	n/a	86.03	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	n/a	363	n/a	n/a	77.96	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.071	n/a	n/a	363	n/a	n/a	3.03	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0005	n/a	n/a	347	n/a	n/a	81.27	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.0005	n/a	n/a	347	n/a	n/a	95.68	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	n/a	n/a	315	n/a	n/a	77.46	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	n/a	n/a	360	n/a	n/a	69.72	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	6.92	n/a	n/a	342	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	0.68	n/a	n/a	362	n/a	n/a	68.51	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	0.0013	n/a	n/a	317	n/a	n/a	82.65	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	342	n/a	n/a	27.49	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.0002	n/a	n/a	278	n/a	n/a	93.17	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.014	n/a	n/a	306	n/a	n/a	59.8	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	n/a	345	n/a	n/a	91.59	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	298	n/a	n/a	96.64	n/a	n/a	NaN	NP Inter(NDs)

FIGURE G.

YATES ASH POND 2 GWPS					
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**Federal GWPS**	**State GWPS**
Antimony, Total (mg/L)	0.006		0.0047	0.006	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01	0.01
Barium, Total (mg/L)	2		0.071	2	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4	4
Lead, Total (mg/L)		0.015	0.0013	0.015	0.0013
Lithium, Total (mg/L)		0.04	0.03	0.04	0.03
Mercury, Total (mg/L)	0.002		0.0002	0.002	0.002
Molybdenum, Total (mg/L)		0.1	0.014	0.1	0.014
Selenium, Total (mg/L)	0.05		0.005	0.05	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002	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.

Federal Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 12:14 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	15	0.002674	0.0008604	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No	15	0.00282	0.0004754	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.00033	0.006	No	15	0.002822	0.0006894	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No	15	0.00282	0.0006971	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29I	0.003	0.0013	0.006	No	15	0.002887	0.0004389	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.0006	0.01	No	19	0.003181	0.002196	57.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.00069	0.01	No	19	0.003185	0.002188	57.89	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06639	0.06267	2	No	19	0.06453	0.003182	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02896	0.02661	2	No	19	0.02778	0.002008	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.0728	0.063	2	No	19	0.06902	0.007204	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-27S	0.1047	0.09313	2	No	19	0.09891	0.009866	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28I	0.09012	0.08399	2	No	19	0.08706	0.005237	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28S	0.221	0.196	2	No	19	0.2026	0.03864	0	None	x^4	0.01	Param.
Barium (mg/L)	YGWC-29I	0.0781	0.057	2	No	19	0.07414	0.03394	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-26S	0.0002	0.00011	0.004	No	17	0.0001932	0.0001222	11.76	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.00023	0.00014	0.004	No	17	0.0002371	0.0001321	17.65	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27S	0.0005	0.000066	0.004	No	17	0.0004745	0.0001053	94.12	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.0005	0.0001	0.005	No	17	0.0002418	0.0001791	11.76	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28S	0.0005	0.00048	0.005	No	17	0.0004988	0.000004851	94.12	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29I	0.0002194	0.0001256	0.005	No	17	0.0002553	0.0001322	17.65	Kaplan-Meier	x^(1/3)	0.01	Param.
Chromium (mg/L)	YGWC-26I	0.005	0.00065	0.1	No	17	0.003202	0.002205	52.94	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002486	0.001092	0.1	No	17	0.002517	0.00169	17.65	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	YGWC-27S	0.015	0.0027	0.1	No	17	0.004668	0.00319	70.59	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.0005	0.1	No	17	0.004201	0.00178	82.35	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.0006	0.1	No	17	0.004211	0.001757	82.35	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.005	0.0005	0.1	No	17	0.004735	0.001091	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002781	0.001865	0.035	No	19	0.002363	0.0008532	5.263	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.01683	0.003275	0.035	No	19	0.01862	0.02682	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.0026	0.0022	0.035	No	19	0.002474	0.0006497	5.263	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	19	0.004759	0.001051	94.74	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0012	0.00092	0.035	No	19	0.001424	0.001268	10.53	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.005	0.0007	0.035	No	19	0.003845	0.001988	73.68	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.062	0.4927	6.92	No	18	0.8202	0.5153	5.556	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.8845	0.5432	6.92	No	19	0.7138	0.2914	5.263	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	4.054	2.769	6.92	No	19	3.412	1.098	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.078	0.6625	6.92	No	19	0.8703	0.3549	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.948	0.261	6.92	No	19	0.6337	0.3534	5.263	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9055	0.4908	6.92	No	19	0.6981	0.3541	5.263	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.148	0.7362	6.92	No	19	0.9422	0.3517	5.263	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.06	4	No	20	0.0825	0.02103	40	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.044	4	No	20	0.1332	0.09928	70	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.14	0.07	4	No	20	0.0921	0.02603	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27S	0.2052	0.1014	4	No	20	0.1634	0.1047	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.14	0.078	4	No	20	0.1269	0.08215	25	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2651	0.1498	4	No	20	0.2075	0.1015	10	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.09525	0.05897	4	No	20	0.0882	0.03115	35	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	YGWC-26I	0.001	0.000059	0.015	No	15	0.000874	0.0003325	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.001	0.000064	0.015	No	15	0.00069	0.0004539	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.001	0.0002	0.015	No	15	0.0007625	0.0003766	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.001	0.000063	0.015	No	15	0.0006876	0.0004573	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29I	0.001	0.00016	0.015	No	15	0.0008214	0.0003702	80	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007101	0.006541	0.04	No	19	0.006821	0.0004779	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.01037	0.008039	0.04	No	19	0.009205	0.001991	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.00081	0.04	No	19	0.02846	0.006697	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.007044	0.00663	0.04	No	19	0.006837	0.0003531	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.04	No	19	0.0287	0.005667	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29I	0.0074	0.0052	0.04	No	19	0.007226	0.005581	5.263	None	No	0.01	NP (normality)

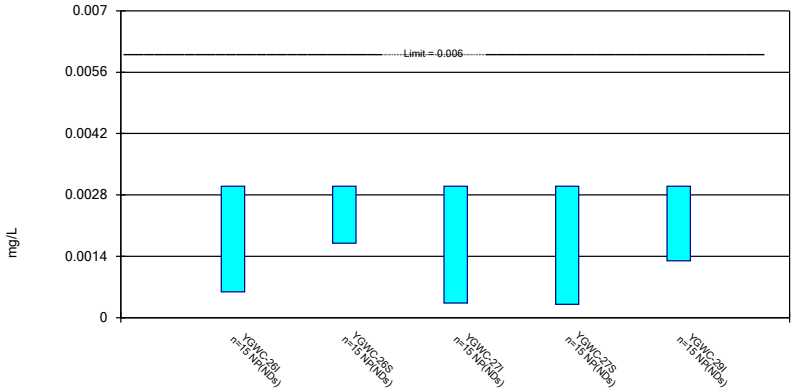
Federal Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 12:14 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	YGWC-27I	0.01	0.0014	0.1	No	19	0.005942	0.004398	52.63	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.1	No	19	0.005411	0.004474	47.37	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00083	0.1	No	19	0.008046	0.003887	78.95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29I	0.01	0.00083	0.1	No	19	0.009517	0.002104	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0031	0.0018	0.05	No	17	0.002476	0.001067	11.76	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	No	17	0.004076	0.001731	76.47	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	No	17	0.004776	0.0009216	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	No	17	0.004765	0.0009701	94.12	None	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

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

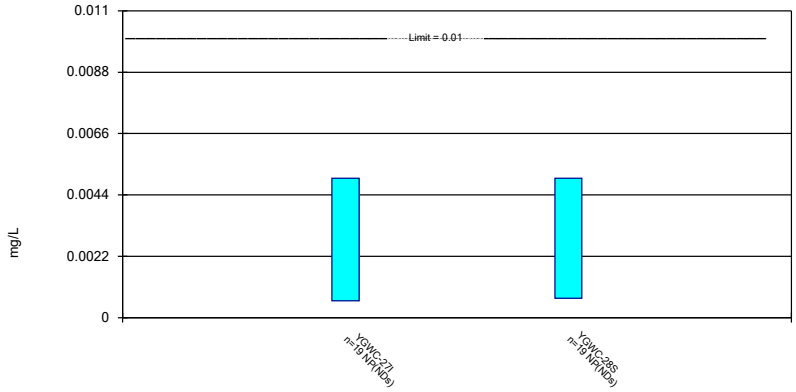


Constituent: Antimony Analysis Run 5/7/2021 12:13 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

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



Constituent: Arsenic Analysis Run 5/7/2021 12:13 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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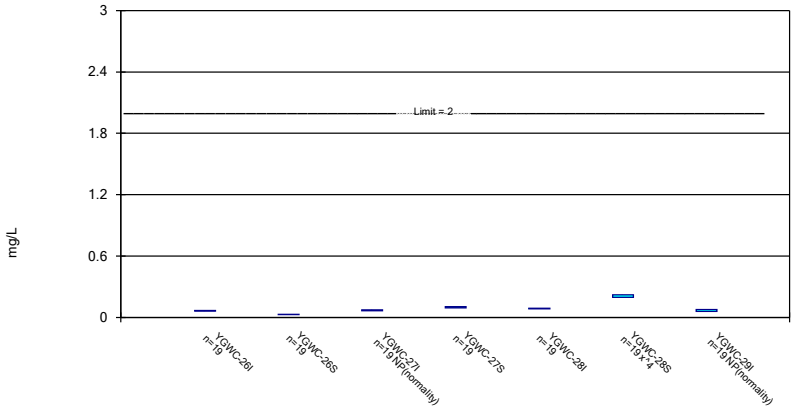
Parametric and Non-Parametric (NP) Confidence Interval

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

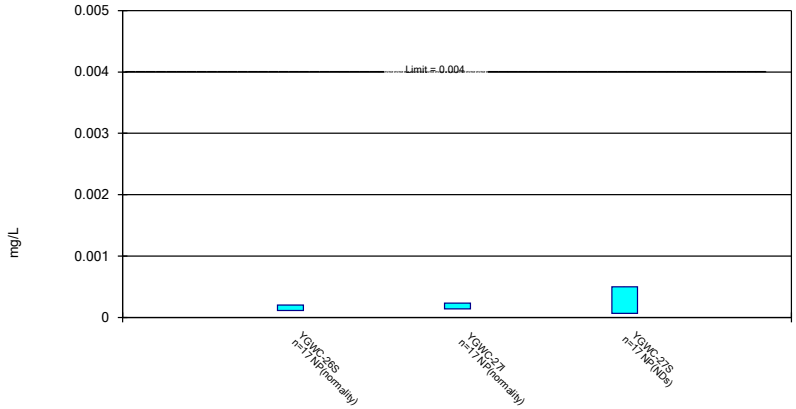


Constituent: Barium Analysis Run 5/7/2021 12:13 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

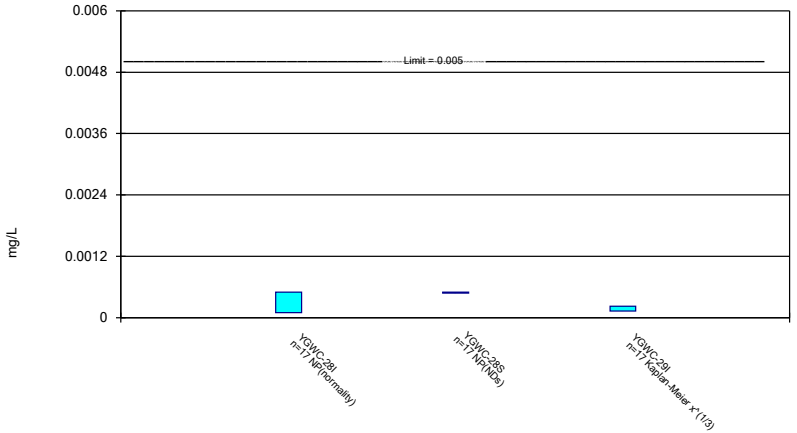
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 5/7/2021 12:13 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 5/7/2021 12:13 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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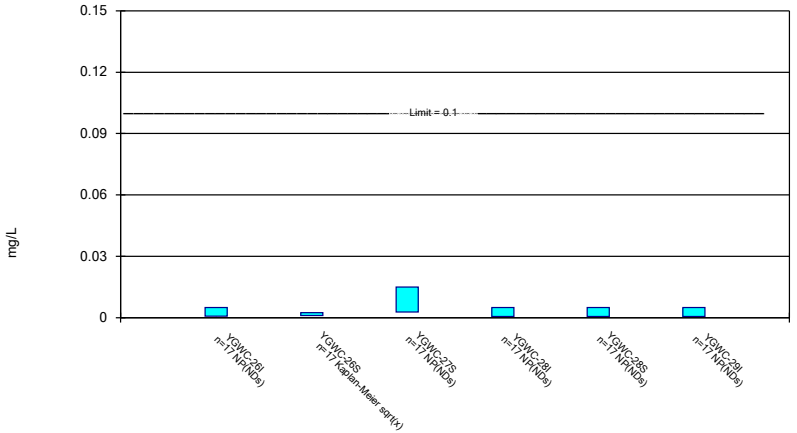
Parametric and Non-Parametric (NP) Confidence Interval

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



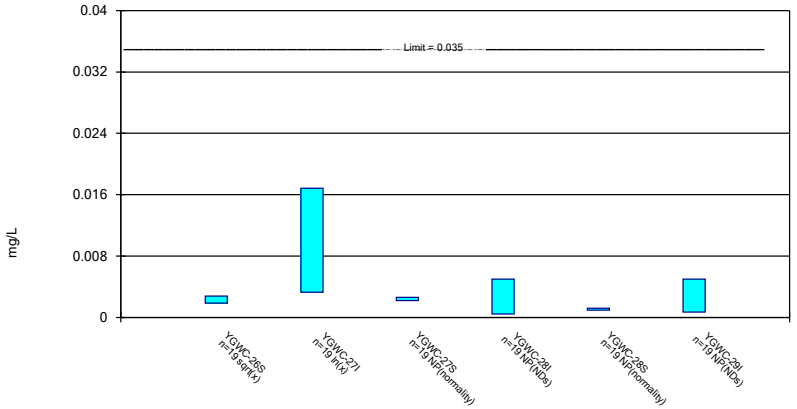
Constituent: Chromium Analysis Run 5/7/2021 12:13 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

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



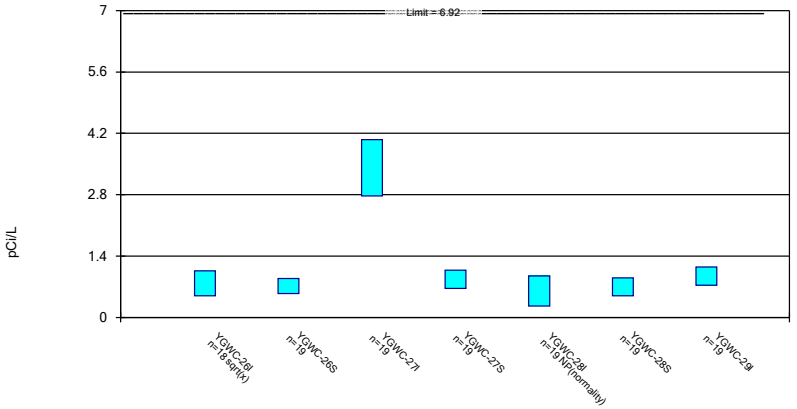
Constituent: Cobalt Analysis Run 5/7/2021 12:13 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

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

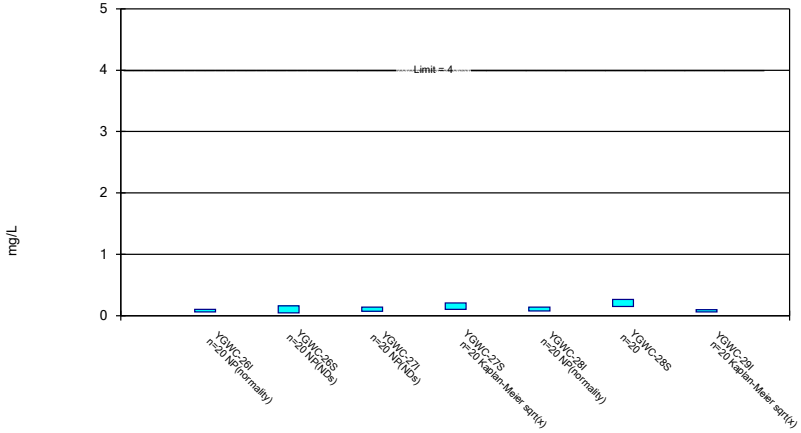


Constituent: Combined Radium 226 + 228 Analysis Run 5/7/2021 12:13 PM View: Appendix IV

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.



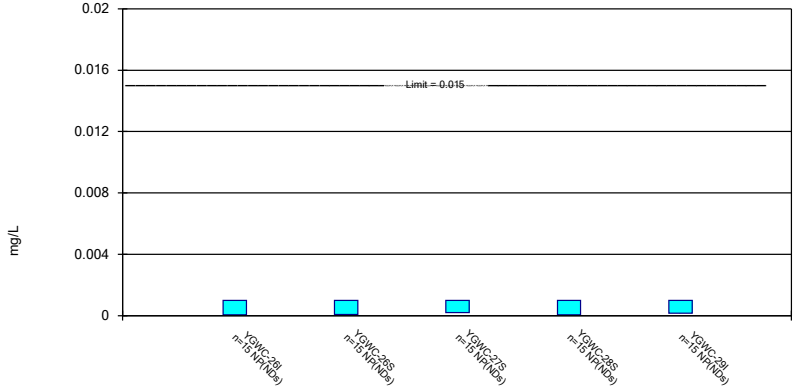
Constituent: Fluoride Analysis Run 5/7/2021 12:13 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

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



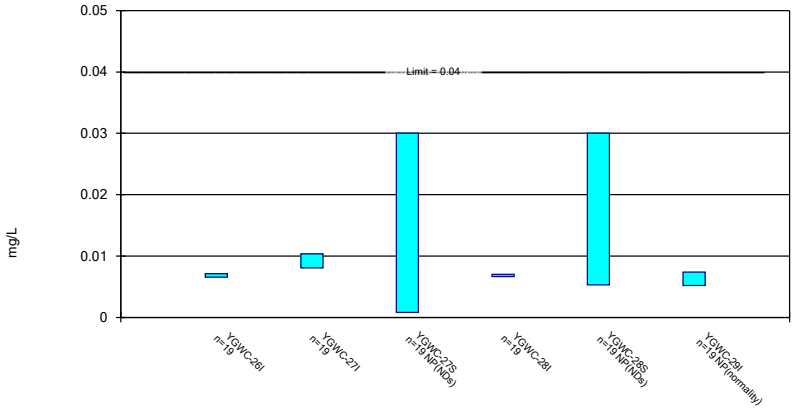
Constituent: Lead Analysis Run 5/7/2021 12:13 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

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



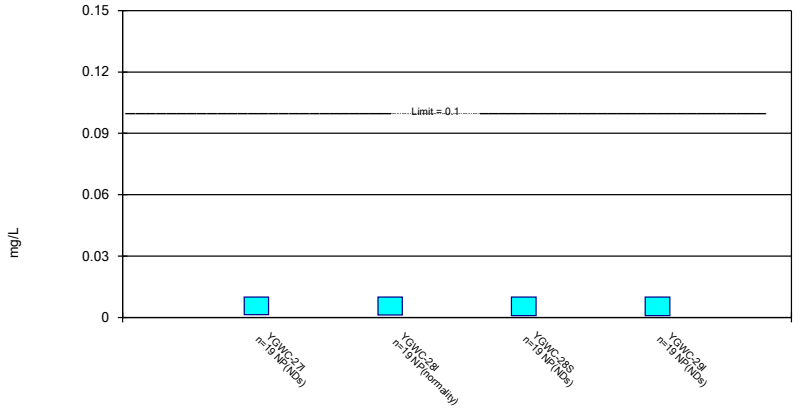
Constituent: Lithium Analysis Run 5/7/2021 12:13 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

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

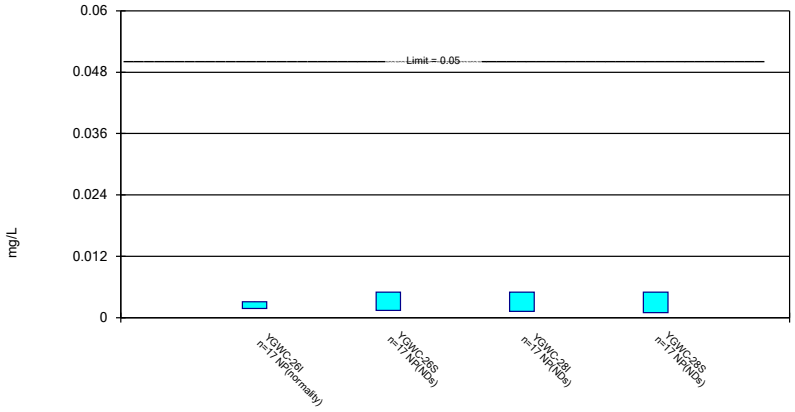


Constituent: Molybdenum Analysis Run 5/7/2021 12:13 PM View: Appendix IV

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 5/7/2021 12:13 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE I.

State Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 12:16 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	15	0.002674	0.0008604	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No	15	0.00282	0.0004754	86.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.00033	0.006	No	15	0.002822	0.0006894	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No	15	0.00282	0.0006971	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29I	0.003	0.0013	0.006	No	15	0.002887	0.0004389	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.0006	0.01	No	19	0.003181	0.002196	57.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.00069	0.01	No	19	0.003185	0.002188	57.89	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06639	0.06267	2	No	19	0.06453	0.003182	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02896	0.02661	2	No	19	0.02778	0.002008	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.0728	0.063	2	No	19	0.06902	0.007204	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-27S	0.1047	0.09313	2	No	19	0.09891	0.009866	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28I	0.09012	0.08399	2	No	19	0.08706	0.005237	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28S	0.221	0.196	2	No	19	0.2026	0.03864	0	None	x^4	0.01	Param.
Barium (mg/L)	YGWC-29I	0.0781	0.057	2	No	19	0.07414	0.03394	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-26S	0.0002	0.00011	0.004	No	17	0.0001932	0.0001222	11.76	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.00023	0.00014	0.004	No	17	0.0002371	0.0001321	17.65	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27S	0.0005	0.000066	0.004	No	17	0.0004745	0.0001053	94.12	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.0005	0.0001	0.005	No	17	0.0002418	0.0001791	11.76	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28S	0.0005	0.00048	0.005	No	17	0.0004988	0.000004851	94.12	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29I	0.0002194	0.0001256	0.005	No	17	0.0002553	0.0001322	17.65	Kaplan-Meier	x^(1/3)	0.01	Param.
Chromium (mg/L)	YGWC-26I	0.005	0.00065	0.1	No	17	0.003202	0.002205	52.94	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002486	0.001092	0.1	No	17	0.002517	0.00169	17.65	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	YGWC-27S	0.015	0.0027	0.1	No	17	0.004668	0.00319	70.59	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.0005	0.1	No	17	0.004201	0.00178	82.35	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.0006	0.1	No	17	0.004211	0.001757	82.35	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.005	0.0005	0.1	No	17	0.004735	0.001091	94.12	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002781	0.001865	0.035	No	19	0.002363	0.0008532	5.263	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.01683	0.003275	0.035	No	19	0.01862	0.02682	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.0026	0.0022	0.035	No	19	0.002474	0.0006497	5.263	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	19	0.004759	0.001051	94.74	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0012	0.00092	0.035	No	19	0.001424	0.001268	10.53	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.005	0.0007	0.035	No	19	0.003845	0.001988	73.68	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.062	0.4927	6.92	No	18	0.8202	0.5153	5.556	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.8845	0.5432	6.92	No	19	0.7138	0.2914	5.263	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	4.054	2.769	6.92	No	19	3.412	1.098	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.078	0.6625	6.92	No	19	0.8703	0.3549	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.948	0.261	6.92	No	19	0.6337	0.3534	5.263	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9055	0.4908	6.92	No	19	0.6981	0.3541	5.263	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.148	0.7362	6.92	No	19	0.9422	0.3517	5.263	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.06	4	No	20	0.0825	0.02103	40	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.044	4	No	20	0.1332	0.09928	70	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.14	0.07	4	No	20	0.0921	0.02603	60	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27S	0.2052	0.1014	4	No	20	0.1634	0.1047	20	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.14	0.078	4	No	20	0.1269	0.08215	25	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2651	0.1498	4	No	20	0.2075	0.1015	10	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.09525	0.05897	4	No	20	0.0882	0.03115	35	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	YGWC-26I	0.001	0.000059	0.0013	No	15	0.000874	0.0003325	86.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.001	0.000064	0.0013	No	15	0.00069	0.0004539	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.001	0.0002	0.0013	No	15	0.0007625	0.0003766	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.001	0.000063	0.0013	No	15	0.0006876	0.0004573	66.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29I	0.001	0.00016	0.0013	No	15	0.0008214	0.0003702	80	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007101	0.006541	0.03	No	19	0.006821	0.0004779	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.01037	0.008039	0.03	No	19	0.009205	0.001991	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.00081	0.03	No	19	0.02846	0.006697	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.007044	0.00663	0.03	No	19	0.006837	0.0003531	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.03	No	19	0.0287	0.005667	94.74	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29I	0.0074	0.0052	0.03	No	19	0.007226	0.005581	5.263	None	No	0.01	NP (normality)

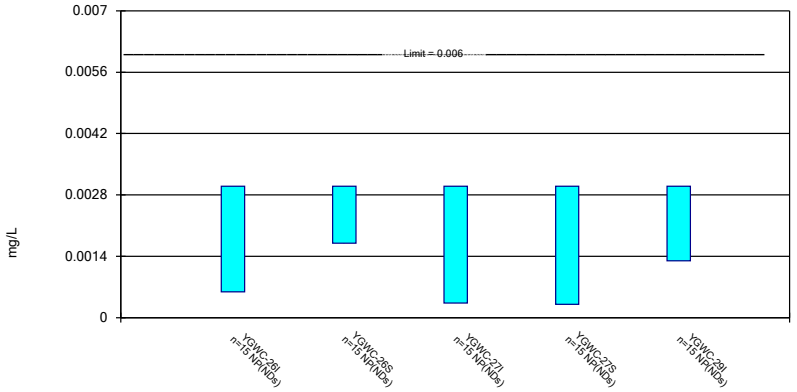
State Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/7/2021, 12:16 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Molybdenum (mg/L)	YGWC-27I	0.01	0.0014	0.014	No	19	0.005942	0.004398	52.63	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.014	No	19	0.005411	0.004474	47.37	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00083	0.014	No	19	0.008046	0.003887	78.95	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29I	0.01	0.00083	0.014	No	19	0.009517	0.002104	94.74	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0031	0.0018	0.05	No	17	0.002476	0.001067	11.76	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	No	17	0.004076	0.001731	76.47	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	No	17	0.004776	0.0009216	94.12	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	No	17	0.004765	0.0009701	94.12	None	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

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



Constituent: Antimony Analysis Run 5/7/2021 12:15 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

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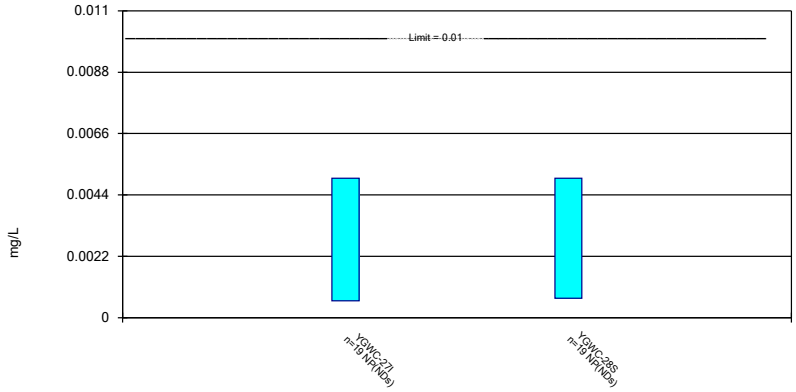
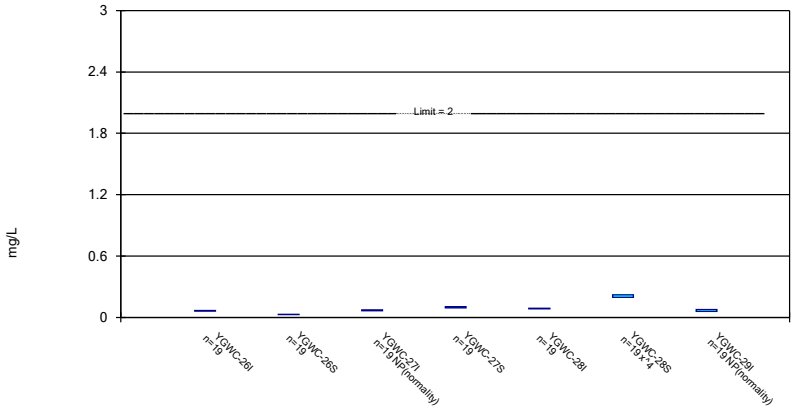


Constituent: Arsenic Analysis Run 5/7/2021 12:15 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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: Barium Analysis Run 5/7/2021 12:15 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

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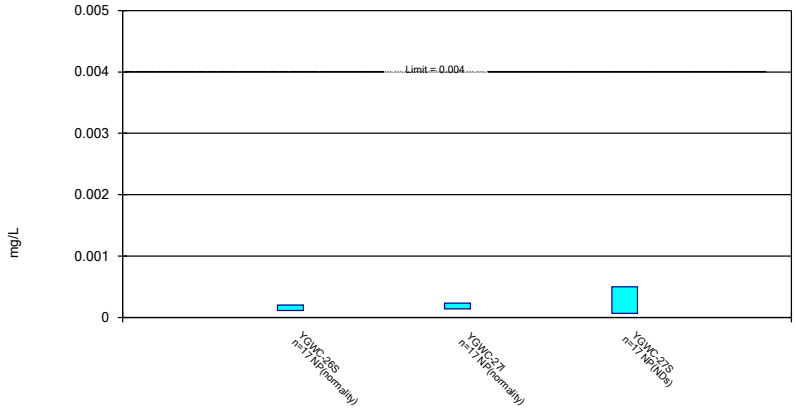
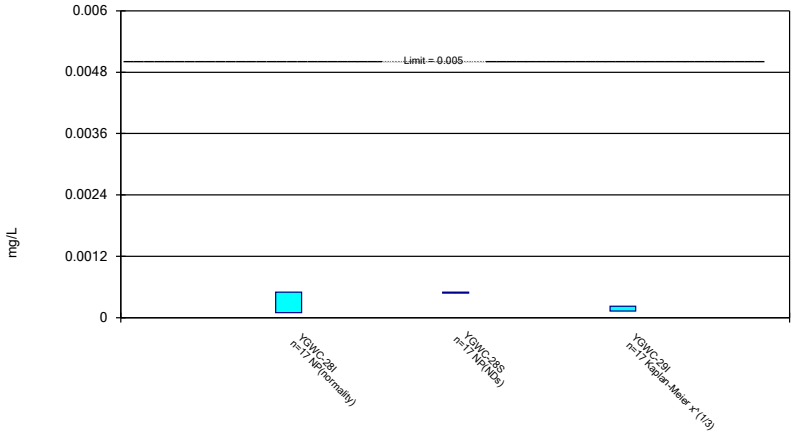


Constituent: Beryllium Analysis Run 5/7/2021 12:15 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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 5/7/2021 12:15 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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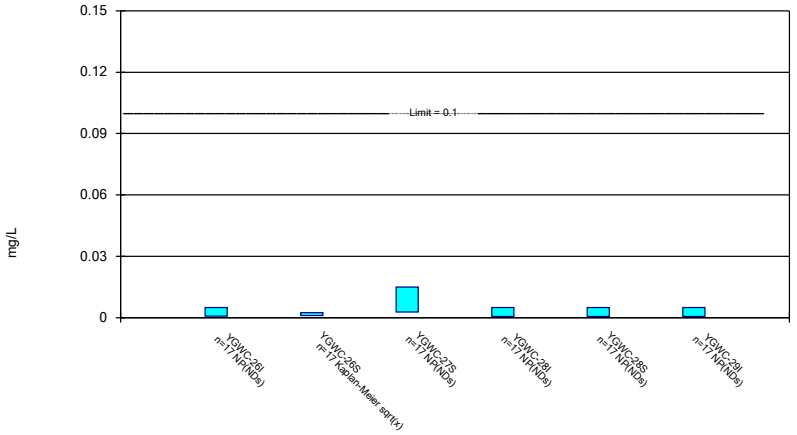
Parametric and Non-Parametric (NP) Confidence Interval

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



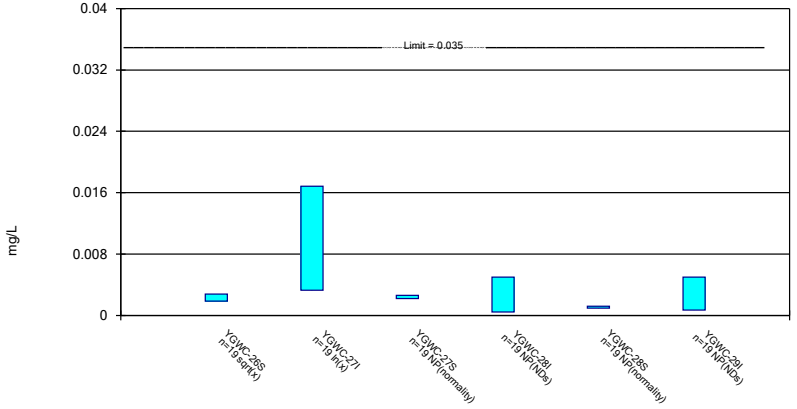
Constituent: Chromium Analysis Run 5/7/2021 12:15 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

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



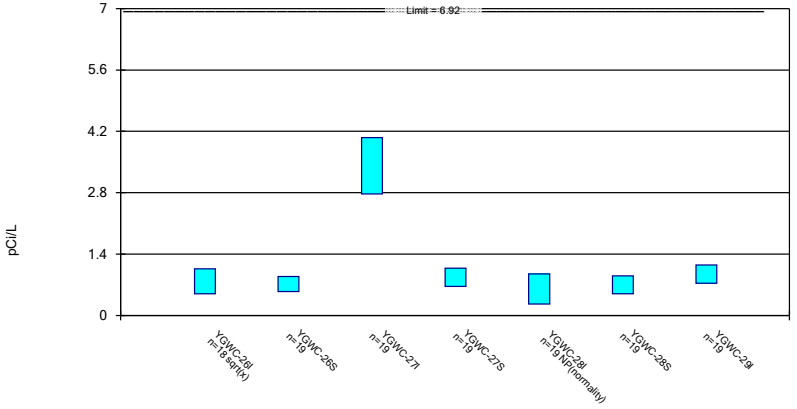
Constituent: Cobalt Analysis Run 5/7/2021 12:15 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.28 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

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

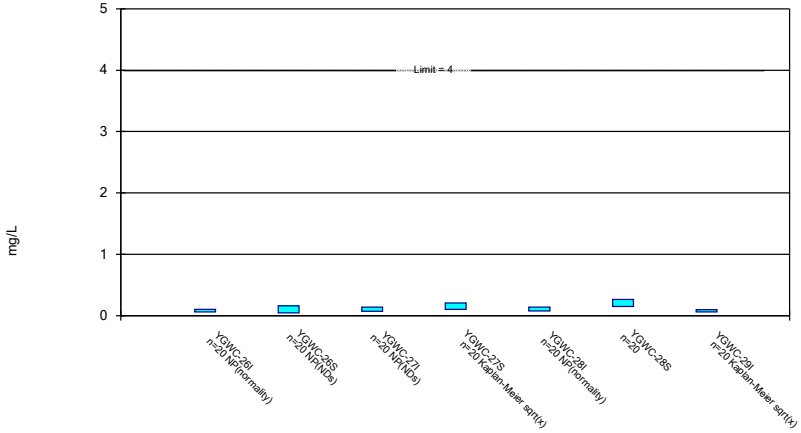


Constituent: Combined Radium 226 + 228 Analysis Run 5/7/2021 12:15 PM View: Appendix IV

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.

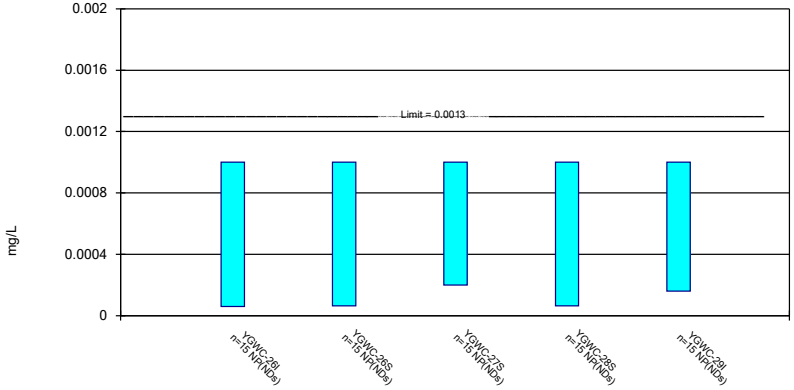


Constituent: Fluoride Analysis Run 5/7/2021 12:15 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

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

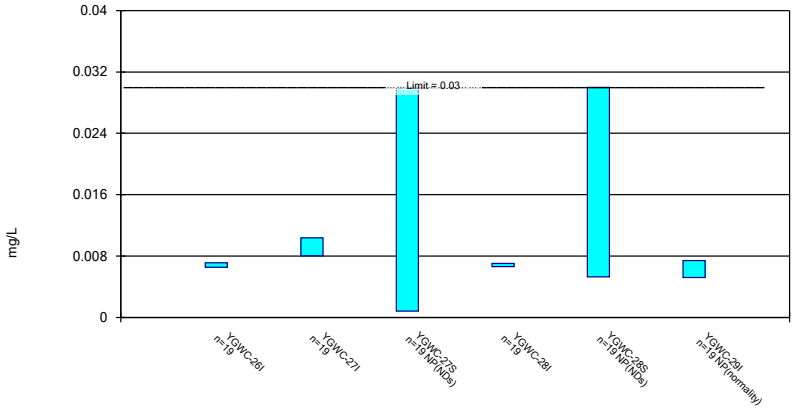


Constituent: Lead Analysis Run 5/7/2021 12:15 PM View: Appendix IV

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.

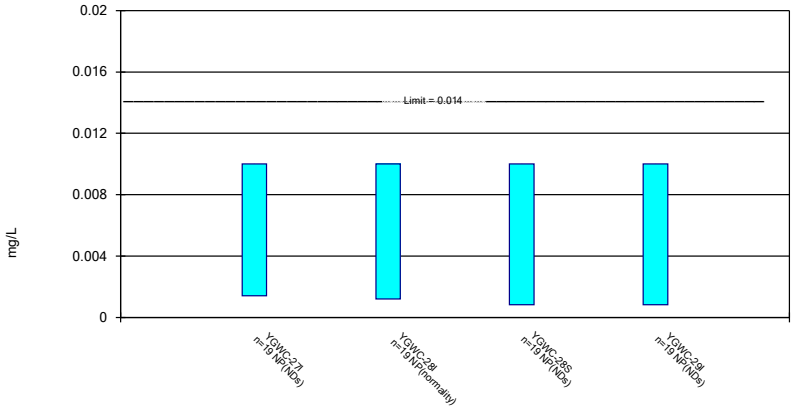


Constituent: Lithium Analysis Run 5/7/2021 12:15 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

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

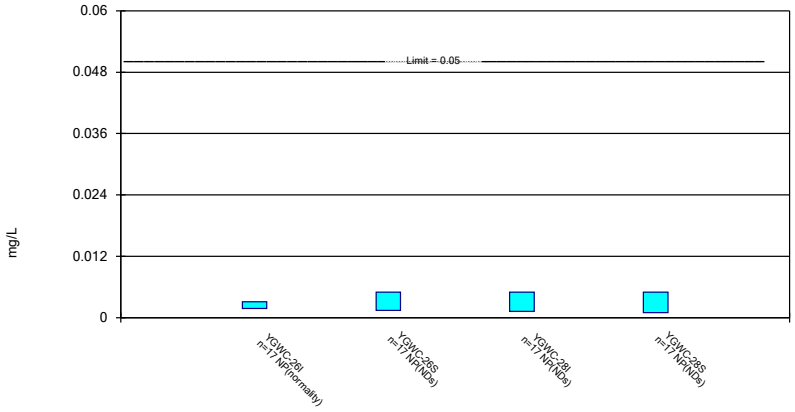


Constituent: Molybdenum Analysis Run 5/7/2021 12:15 PM View: Appendix IV

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 5/7/2021 12:15 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/7/2021 12:16 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
Mean	0.002674	0.00282	0.002822	0.00282	0.002887
Std. Dev.	0.0008604	0.0004754	0.0006894	0.0006971	0.0004389
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 5/7/2021 12:16 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27I	YGWC-28S
6/8/2016	0.0011 (J)	
6/9/2016		0.00094 (J)
8/1/2016	0.0009 (J)	
8/2/2016		<0.005
9/20/2016	<0.005	
9/21/2016		<0.005
11/7/2016	<0.005	<0.005
1/18/2017	<0.005	<0.005
2/21/2017		<0.005
2/23/2017	<0.005	
5/5/2017		<0.005
5/8/2017	0.0006 (J)	
6/30/2017	<0.005 (*)	
7/7/2017		0.0007 (J)
3/29/2018	0.0006 (J)	
3/30/2018		0.00069 (J)
6/12/2018		0.00075 (J)
6/13/2018	<0.005	
10/2/2018	<0.005	
10/3/2018		0.0007 (J)
2/27/2019	0.00069 (J)	<0.005
4/1/2019	<0.005	
4/2/2019		<0.005
9/26/2019	0.00058 (J)	0.00057 (J)
2/13/2020	0.00055 (J)	0.00065 (J)
3/19/2020		0.00051 (J)
3/20/2020	0.00042 (J)	
9/24/2020	<0.005	<0.005
2/10/2021	<0.005	
2/12/2021		<0.005
3/3/2021	<0.005	<0.005
Mean	0.003181	0.003185
Std. Dev.	0.002196	0.002188
Upper Lim.	0.005	0.005
Lower Lim.	0.0006	0.00069

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/7/2021 12:16 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
Mean	0.06453	0.02778	0.06902	0.09891	0.08706	0.2026	0.07414
Std. Dev.	0.003182	0.002008	0.007204	0.009866	0.005237	0.03864	0.03394
Upper Lim.	0.06639	0.02896	0.0728	0.1047	0.09012	0.221	0.0781
Lower Lim.	0.06267	0.02661	0.063	0.09313	0.08399	0.196	0.057

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/7/2021 12:16 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
Mean	0.0001932	0.0002371	0.0004745
Std. Dev.	0.0001222	0.0001321	0.0001053
Upper Lim.	0.0002	0.00023	0.0005
Lower Lim.	0.00011	0.00014	6.6E-05

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/7/2021 12:16 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)
Mean	0.0002418	0.0004988	0.0002553
Std. Dev.	0.0001791	4.851E-06	0.0001322
Upper Lim.	0.0005	0.0005	0.0002194
Lower Lim.	0.0001	0.00048	0.0001256

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/7/2021 12:16 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<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			
8/2/2016				0.0005 (J)	0.0005 (J)	0.0005 (J)
9/20/2016	<0.005	0.001 (J)	<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
11/8/2016				<0.005		
1/18/2017	<0.005	0.002 (J)		<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
5/3/2017		0.0037 (J)				
5/5/2017				<0.005	<0.005	
5/8/2017	0.0006 (J)		<0.005			<0.005
6/30/2017			<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
3/30/2018	<0.005	<0.005		<0.005	<0.005	
2/27/2019	0.0049 (J)	0.0055 (J)	0.015	<0.005	<0.005	<0.005
4/1/2019			<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	0.00044 (J)	<0.005	
2/13/2020	0.00044 (J)	0.0012 (J)	<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)		0.0005 (J)			<0.005
9/24/2020	0.00067 (J)	0.00068 (J)	0.00057 (J)	<0.005	0.0006 (J)	<0.005
2/10/2021	0.00065 (J)	0.00091 (J)	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		0.00058 (J)	<0.005	<0.005	<0.005
Mean	0.003202	0.002517	0.004668	0.004201	0.004211	0.004735
Std. Dev.	0.002205	0.00169	0.00319	0.00178	0.001757	0.001091
Upper Lim.	0.005	0.002486	0.015	0.005	0.005	0.005
Lower Lim.	0.00065	0.001092	0.0027	0.0005	0.0006	0.0005

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/7/2021 12:16 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
Mean	0.002363	0.01862	0.002474	0.004759	0.001424	0.003845
Std. Dev.	0.0008532	0.02682	0.0006497	0.001051	0.001268	0.001988
Upper Lim.	0.002781	0.01683	0.0026	0.005	0.0012	0.005
Lower Lim.	0.001865	0.003275	0.0022	0.00042	0.00092	0.0007

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/7/2021 12:16 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
Mean	0.8202	0.7138	3.412	0.8703	0.6337	0.6981	0.9422
Std. Dev.	0.5153	0.2914	1.098	0.3549	0.3534	0.3541	0.3517
Upper Lim.	1.062	0.8845	4.054	1.078	0.948	0.9055	1.148
Lower Lim.	0.4927	0.5432	2.769	0.6625	0.261	0.4908	0.7362

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/7/2021 12:16 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)
Mean	0.0825	0.1332	0.0921	0.1634	0.1269	0.2075	0.0882
Std. Dev.	0.02103	0.09928	0.02603	0.1047	0.08215	0.1015	0.03115
Upper Lim.	0.1	0.16	0.14	0.2052	0.14	0.2651	0.09525
Lower Lim.	0.06	0.044	0.07	0.1014	0.078	0.1498	0.05897

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/7/2021 12:16 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)
Mean	0.000874	0.00069	0.0007625	0.0006876	0.0008214
Std. Dev.	0.0003325	0.0004539	0.0003766	0.0004573	0.0003702
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	5.9E-05	6.4E-05	0.0002	6.3E-05	0.00016

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/7/2021 12:16 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)
Mean	0.006821	0.009205	0.02846	0.006837	0.0287	0.007226
Std. Dev.	0.0004779	0.001991	0.006697	0.0003531	0.005667	0.005581
Upper Lim.	0.007101	0.01037	0.03	0.007044	0.03	0.0074
Lower Lim.	0.006541	0.008039	0.00081	0.00663	0.0053	0.0052

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/7/2021 12:16 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
Mean	0.005942	0.005411	0.008046	0.009517
Std. Dev.	0.004398	0.004474	0.003887	0.002104
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 5/7/2021 12:16 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
Mean	0.002476	0.004076	0.004776	0.004765
Std. Dev.	0.001067	0.001731	0.0009216	0.0009701
Upper Lim.	0.0031	0.005	0.005	0.005
Lower Lim.	0.0018	0.0014	0.0012	0.001

August 2021

GROUNDWATER STATS CONSULTING

January 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)
August/September 2021 Statistical Analysis

Dear Ms. Coker,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the August/September 2021 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, Groundwater Statistician and Founder of Groundwater Stats Consulting.

The CCR program consists of the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **Appendix III** (Detection Monitoring) **-** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) **–** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient well/constituent pairs containing 100% non-detects follows this letter. Additionally, when Appendix IV constituents are not detected during a scheduled Scan event, no statistical analyses are required during the semi-annual sample event, and laboratory reporting for those constituents is not required during the subsequent events. During the annual Scan event conducted in February 2021, mercury and thallium were not detected; therefore, these constituents were not sampled during the subsequent events. In some cases, upgradient wells at a given unit were not sampled for all constituents if no detections were present at downgradient wells for that particular unit. The following constituent was not detected during the respective Scan event at other Plant Yates units; therefore, upgradient wells at the units listed below were not sampled for this constituent:

- Yates AMA-R6: thallium

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 – August/September 2021

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. A single high pH value in upgradient well YGWA-47 from AP-1 was flagged as an outlier during earlier screenings since it was higher than the other measurements within this well. The March 2021 reported value of 66.51 s.u. of pH in downgradient well YGWC-28I was previously flagged as an outlier; however, Arcadis subsequently provided a laboratory report with the corrected value of 6.51 s.u., which is no longer flagged as an outlier.

The reported measurement of 451 mg/L for sulfate in well YGWC-27S during the March 2021 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. No new outliers were flagged for Appendix III parameters, and a summary of flagged outliers follows this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical pooled upgradient well data through September 2021 (Figure D). Interwell

prediction limits pool upgradient well data to establish a background limit for an individual constituent. The August/September 2021 sample from each downgradient well is compared to the background limit to determine whether statistically significant increases (SSIs) 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 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-28I, and YGWC-28S
- TDS: YGWC-26I

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), YGWA-47 (upgradient), and YGWC-29I

- Chloride: YGWA-3D (upgradient), YGWA-3I (upgradient), YGWA-5D (upgradient), YGWA-47 (upgradient), YGWC-26S, YGWC-27S, and YGWC-28I
- TDS: YGWA-5D, YGWA-40, and YGWA-47 (all 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 2021

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 0.074 mg/L for cobalt at upgradient well GWA-2 from the August 2021 sample event was flagged in order to maintain statistical limits that are conservative (i.e. lower) from a regulatory perspective. The more recent reported measurements since August 2020 were previously flagged as these measurements 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 2021 for Appendix IV constituents (Figure F). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. 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).

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

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, CCR-rule specified levels have been specified for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

On July 30, 2018, USEPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Georgia EPD has not incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a); therefore, for sites regulated under Georgia EPD Rules, the State GWPS is:

- The MCL or
- The background concentration when an MCL is not established or when the background concentration is higher than the MCL.

Following the above Federal CCR and Georgia EPD Rule requirements, Federal and State GWPS were established for Appendix IV constituents for the August/September 2021 sample event (Figure G).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for the Appendix IV constituents at each downgradient well using all historical data through September 2021 according to both Federal and State rules (Figures H and I, respectively). As mentioned above, confidence intervals were not required for mercury and thallium or downgradient well/constituent pairs with 100% non-detects.

The Sanitas software was used to calculate the tolerance limits and the confidence intervals. Those confidence intervals were compared to the GWPS established using the CCR Rules for the federal requirements and the Georgia EPD Rules 391-3-4-.10(6)(a) for

the State requirements. 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. For both federal and state confidence intervals, no exceedances were noted.

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 10/31/2021 3:57 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Antimony (mg/L)
YGWC-28I, YGWC-28S

Arsenic (mg/L)
YGWC-26I, YGWC-26S, YGWC-27S, YGWC-28I, YGWC-29I

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

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/30/2021, 2:31 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**	**8/20/2021**	**0.72**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-26S**	**0.16**	**n/a**	**8/19/2021**	**0.71**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-27I**	**0.16**	**n/a**	**8/20/2021**	**2.5**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-27S**	**0.16**	**n/a**	**8/20/2021**	**1.2**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-28I**	**0.16**	**n/a**	**8/20/2021**	**2.3**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-28S**	**0.16**	**n/a**	**8/20/2021**	**2.5**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-29I**	**0.16**	**n/a**	**8/20/2021**	**0.66**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-26I**	**8.5**	**n/a**	**8/20/2021**	**14.4**	**Yes**	**312**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-26S**	**8.5**	**n/a**	**8/19/2021**	**13.5**	**Yes**	**312**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-27I**	**8.5**	**n/a**	**8/20/2021**	**13.7**	**Yes**	**312**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-27S**	**8.5**	**n/a**	**8/20/2021**	**15.2**	**Yes**	**312**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-28I**	**8.5**	**n/a**	**8/20/2021**	**15.2**	**Yes**	**312**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-28S**	**8.5**	**n/a**	**8/20/2021**	**18.1**	**Yes**	**312**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-26I**	**220**	**n/a**	**8/20/2021**	**224**	**Yes**	**312**	**10.03**	**2.584**	**0.641**	**None**	**sqrt(x)**	**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 10/30/2021, 2:31 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**	**8/20/2021**	**0.72**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-26S**	**0.16**	**n/a**	**8/19/2021**	**0.71**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-27I**	**0.16**	**n/a**	**8/20/2021**	**2.5**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-27S**	**0.16**	**n/a**	**8/20/2021**	**1.2**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-28I**	**0.16**	**n/a**	**8/20/2021**	**2.3**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-28S**	**0.16**	**n/a**	**8/20/2021**	**2.5**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-29I**	**0.16**	**n/a**	**8/20/2021**	**0.66**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-26I	37	n/a	8/20/2021	17.2	No	312	n/a	n/a	0.9615	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26S	37	n/a	8/19/2021	11.5	No	312	n/a	n/a	0.9615	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27I	37	n/a	8/20/2021	25.7	No	312	n/a	n/a	0.9615	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	37	n/a	8/20/2021	29.9	No	312	n/a	n/a	0.9615	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	37	n/a	8/20/2021	33.1	No	312	n/a	n/a	0.9615	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28S	37	n/a	8/20/2021	27.8	No	312	n/a	n/a	0.9615	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-29I	37	n/a	8/20/2021	10.2	No	312	n/a	n/a	0.9615	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	**YGWC-26I**	**8.5**	**n/a**	**8/20/2021**	**14.4**	**Yes**	**312**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-26S**	**8.5**	**n/a**	**8/19/2021**	**13.5**	**Yes**	**312**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-27I**	**8.5**	**n/a**	**8/20/2021**	**13.7**	**Yes**	**312**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-27S**	**8.5**	**n/a**	**8/20/2021**	**15.2**	**Yes**	**312**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-28I**	**8.5**	**n/a**	**8/20/2021**	**15.2**	**Yes**	**312**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-28S**	**8.5**	**n/a**	**8/20/2021**	**18.1**	**Yes**	**312**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	YGWC-29I	8.5	n/a	8/20/2021	6.8	No	312	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	8/20/2021	0.1ND	No	381	n/a	n/a	67.98	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-26S	0.68	n/a	8/19/2021	0.1ND	No	381	n/a	n/a	67.98	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27I	0.68	n/a	8/20/2021	0.091J	No	381	n/a	n/a	67.98	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27S	0.68	n/a	8/20/2021	0.11	No	381	n/a	n/a	67.98	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28I	0.68	n/a	8/20/2021	0.11	No	381	n/a	n/a	67.98	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28S	0.68	n/a	8/20/2021	0.2	No	381	n/a	n/a	67.98	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-29I	0.68	n/a	8/20/2021	0.069J	No	381	n/a	n/a	67.98	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-26I	8.39	4.4	8/20/2021	5.78	No	391	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	8/19/2021	5.12	No	391	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	8/20/2021	6.17	No	391	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	8/20/2021	6.18	No	391	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	8/20/2021	6.23	No	391	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	8/20/2021	6.38	No	391	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	8/20/2021	6.07	No	391	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	8/20/2021	84	No	312	n/a	n/a	6.09	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26S	160	n/a	8/19/2021	86.5	No	312	n/a	n/a	6.09	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27I	160	n/a	8/20/2021	2.9	No	312	n/a	n/a	6.09	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27S	160	n/a	8/20/2021	18	No	312	n/a	n/a	6.09	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28I	160	n/a	8/20/2021	8.9	No	312	n/a	n/a	6.09	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28S	160	n/a	8/20/2021	5.4	No	312	n/a	n/a	6.09	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-29I	160	n/a	8/20/2021	24.7	No	312	n/a	n/a	6.09	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	**YGWC-26I**	**220**	**n/a**	**8/20/2021**	**224**	**Yes**	**312**	**10.03**	**2.584**	**0.641**	**None**	**sqrt(x)**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	YGWC-26S	220	n/a	8/19/2021	176	No	312	10.03	2.584	0.641	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27I	220	n/a	8/20/2021	196	No	312	10.03	2.584	0.641	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27S	220	n/a	8/20/2021	169	No	312	10.03	2.584	0.641	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28I	220	n/a	8/20/2021	194	No	312	10.03	2.584	0.641	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28S	220	n/a	8/20/2021	192	No	312	10.03	2.584	0.641	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-29I	220	n/a	8/20/2021	110	No	312	10.03	2.584	0.641	None	sqrt(x)	0.001075	Param Inter 1 of 2

Appendix III Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/30/2021, 2:34 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**YGWC-29I**	**-0.0283**	**-66**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-47 (bg)**	**-0.000923**	**-50**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01963**	**-52**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.05961**	**-72**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3I (bg)**	**-0.05007**	**-72**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-26S**	**-0.8136**	**-83**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-27S**	**-1.254**	**-106**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-28I**	**-0.4434**	**-80**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.4824**	**-58**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-17S (bg)**	**0.4027**	**92**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-20S (bg)**	**0.1782**	**82**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.8704**	**-97**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWA-47 (bg)**	**-15.69**	**-67**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWA-40 (bg)**	**-16.17**	**-53**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWA-5D (bg)**	**-17**	**-86**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/30/2021, 2:34 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-14S (bg)	-0.0008768	-36	-63	No	17	11.76	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.00007668	10	63	No	17	29.41	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-18	-63	No	17	70.59	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	-14	-63	No	17	76.47	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-25	-63	No	17	82.35	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	-1	-63	No	17	58.82	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-21	-63	No	17	88.24	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-26I	-0.04307	-58	-63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-26S	0.008373	28	63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27I	0.05704	33	63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27S	-0.02017	-17	-63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28I	0	-1	-63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28S	0.02398	17	63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	**YGWC-29I**	**-0.0283**	**-66**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-47 (bg)**	**-0.000923**	**-50**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-17S (bg)	0	1	63	No	17	11.76	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-30	-63	No	17	76.47	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0	0	63	No	17	17.65	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-13	-63	No	17	88.24	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	-0.005469	-53	-63	No	17	58.82	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.004253	27	48	No	14	7.143	n/a	n/a	0.01	NP
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01963**	**-52**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-4I (bg)	0	-11	-63	No	17	64.71	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0001974	14	63	No	17	11.76	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-39	-63	No	17	58.82	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	11	53	No	15	60	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1776	42	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	-0.002869	-40	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	-0.02701	-41	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.04401	-47	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	-0.02202	-32	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.05961**	**-72**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3I (bg)**	**-0.05007**	**-72**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWC-26I	-0.3473	-49	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWC-26S**	**-0.8136**	**-83**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWC-27I	0	-9	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWC-27S**	**-1.254**	**-106**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-28I**	**-0.4434**	**-80**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWC-28S	-0.1896	-24	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.4824**	**-58**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-17S (bg)**	**0.4027**	**92**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-18I (bg)	0.06344	47	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18S (bg)	0.2062	62	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-20S (bg)**	**0.1782**	**82**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-21I (bg)	-0.1349	-41	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.3996	26	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.2116	37	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-4I (bg)	0.1004	41	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.8704**	**-97**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-5I (bg)	0	-3	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.1877	43	53	No	15	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/30/2021, 2:34 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Total Dissolved Solids (mg/L)	YGWA-14S (bg)	1.46	17	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1D (bg)	0.915	10	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1I (bg)	-3.586	-32	-63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-2I (bg)	-2.761	-35	-63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-30I (bg)	1.885	20	63	No	17	11.76	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3D (bg)	1.346	10	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3I (bg)	1.702	14	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-26I	-1.143	-9	-63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWA-47 (bg)**	**-15.69**	**-67**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-17S (bg)	5.4	32	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18I (bg)	-1.272	-13	-63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18S (bg)	0.4413	9	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-20S (bg)	3.135	31	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21I (bg)	13.94	56	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	25.58	41	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWA-40 (bg)**	**-16.17**	**-53**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-4I (bg)	0.3992	4	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWA-5D (bg)**	**-17**	**-86**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-5I (bg)	0	-1	-63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-2 (bg)	25.14	48	53	No	15	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/30/2021, 3:28 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0047	n/a	n/a	n/a	334	n/a	n/a	86.83	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	382	n/a	n/a	78.8	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.071	n/a	n/a	n/a	382	n/a	n/a	2.88	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	366	n/a	n/a	80.87	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	366	n/a	n/a	95.63	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0093	n/a	n/a	n/a	334	n/a	n/a	78.74	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	378	n/a	n/a	69.31	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	6.92	n/a	n/a	n/a	361	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	381	n/a	n/a	67.98	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	336	n/a	n/a	83.63	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	361	n/a	n/a	27.15	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	290	n/a	n/a	93.1	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	325	n/a	n/a	60	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	364	n/a	n/a	92.03	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	300	n/a	n/a	96.67	n/a	n/a	NaN	NP Inter(NDs)

YATES ASH POND 2 GWPS					
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**Federal GWPS**	**State GWPS**
Antimony, Total (mg/L)	0.006		0.0047	0.006	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01	0.01
Barium, Total (mg/L)	2		0.071	2	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4	4
Lead, Total (mg/L)		0.015	0.0013	0.015	0.0013
Lithium, Total (mg/L)		0.04	0.03	0.04	0.03
Mercury, Total (mg/L)	0.002		0.0002	0.002	0.002
Molybdenum, Total (mg/L)		0.1	0.014	0.1	0.014
Selenium, Total (mg/L)	0.05		0.005	0.05	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002	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*

Federal Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/31/2021, 4:04 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	16	0.002694	0.0008352	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No	16	0.002831	0.0004615	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.00033	0.006	No	16	0.002833	0.0006675	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No	16	0.002831	0.000675	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29I	0.003	0.0013	0.006	No	16	0.002894	0.000425	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.0006	0.01	No	20	0.003272	0.002175	60	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.0007	0.01	No	20	0.003275	0.002168	60	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06622	0.06269	2	No	20	0.06446	0.003116	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02881	0.02628	2	No	20	0.02755	0.002228	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.08	0.063	2	No	20	0.06972	0.007677	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-27S	0.1039	0.0922	2	No	20	0.09807	0.01032	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28I	0.08972	0.08359	2	No	20	0.08666	0.005406	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28S	0.2227	0.1956	2	No	20	0.2045	0.03853	0	None	x^3	0.01	Param.
Barium (mg/L)	YGWC-29I	0.0741	0.057	2	No	20	0.07329	0.03326	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-26S	0.0002	0.0001	0.004	No	18	0.0001871	0.0001214	11.11	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.00023	0.00013	0.004	No	18	0.0002287	0.000133	16.67	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27S	0.0005	0.00011	0.004	No	18	0.0004542	0.0001334	88.89	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.0005	0.0001	0.005	No	18	0.0002433	0.0001738	11.11	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28S	0.0005	0.00048	0.005	No	18	0.0004989	0.000004714	94.44	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29I	0.0002269	0.000133	0.005	No	18	0.0002561	0.0001283	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	YGWC-26I	0.005	0.00065	0.1	No	18	0.003302	0.002181	55.56	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002168	0.001036	0.1	No	18	0.002444	0.001669	16.67	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	YGWC-27I	0.012	0.005	0.1	No	18	0.005389	0.00165	94.44	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-27S	0.015	0.0027	0.1	No	18	0.004636	0.003098	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.0005	0.1	No	18	0.004245	0.001737	83.33	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.0006	0.1	No	18	0.004255	0.001714	83.33	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.005	0.0005	0.1	No	18	0.00475	0.001061	94.44	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002726	0.001852	0.035	No	20	0.00233	0.0008436	5	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.01556	0.003277	0.035	No	20	0.01786	0.02632	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.0026	0.0022	0.035	No	20	0.002485	0.0006343	5	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	20	0.004771	0.001024	95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0012	0.00092	0.035	No	20	0.001401	0.001238	10	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.005	0.00094	0.035	No	20	0.003903	0.001952	75	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.033	0.4988	6.92	No	19	0.8084	0.5034	5.263	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.8674	0.542	6.92	No	20	0.7047	0.2866	5	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	3.969	2.649	6.92	No	20	3.309	1.163	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.054	0.6533	6.92	No	20	0.8539	0.3532	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.8302	0.4395	6.92	No	20	0.6348	0.344	5	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9422	0.5182	6.92	No	20	0.7302	0.3734	5	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.121	0.7006	6.92	No	20	0.9107	0.37	5	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.06	4	No	21	0.08333	0.02085	42.86	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.044	4	No	21	0.1316	0.09704	71.43	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.1	0.07	4	No	21	0.09205	0.02537	57.14	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27S	0.198	0.0988	4	No	21	0.1609	0.1027	19.05	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.14	0.078	4	No	21	0.126	0.08016	23.81	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2617	0.1525	4	No	21	0.2071	0.09897	9.524	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.09347	0.05957	4	No	21	0.08729	0.03064	33.33	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	YGWC-26I	0.001	0.000059	0.015	No	16	0.0008819	0.0003228	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.001	0.000064	0.015	No	16	0.0007094	0.0004453	68.75	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.001	0.0002	0.015	No	16	0.0007748	0.0003672	62.5	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.001	0.000063	0.015	No	16	0.0007071	0.0004487	68.75	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29I	0.001	0.00016	0.015	No	16	0.0008326	0.0003604	81.25	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007173	0.006577	0.04	No	20	0.006875	0.000524	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.01022	0.007926	0.04	No	20	0.009075	0.002024	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.0013	0.04	No	20	0.02711	0.008909	90	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.007056	0.006654	0.04	No	20	0.006855	0.0003531	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.04	No	20	0.02876	0.005523	95	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29I	0.0066	0.0053	0.04	No	20	0.007145	0.005444	5	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-27I	0.01	0.0014	0.1	No	20	0.005855	0.004298	50	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.1	No	20	0.00519	0.004465	45	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00083	0.1	No	20	0.008144	0.003809	80	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29I	0.01	0.00083	0.1	No	20	0.009541	0.00205	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0031	0.0018	0.05	No	18	0.002483	0.001035	11.11	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	No	18	0.004128	0.001694	77.78	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	No	18	0.004789	0.0008957	94.44	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	No	18	0.004778	0.0009428	94.44	None	No	0.01	NP (NDs)

State Confidence Intervals - All Results (No Significant)

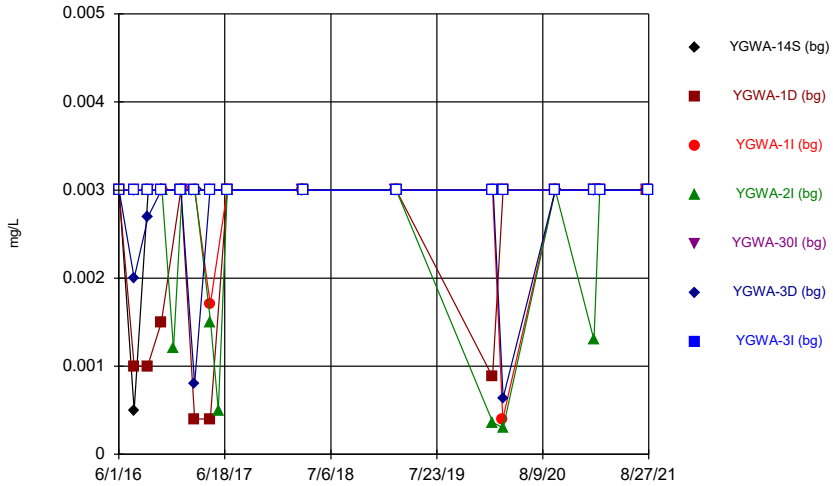
Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/31/2021, 4:01 PM

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	16	0.002694	0.0008352	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No	16	0.002831	0.0004615	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.00033	0.006	No	16	0.002833	0.0006675	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No	16	0.002831	0.000675	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29I	0.003	0.0013	0.006	No	16	0.002894	0.000425	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.0006	0.01	No	20	0.003272	0.002175	60	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.0007	0.01	No	20	0.003275	0.002168	60	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06622	0.06269	2	No	20	0.06446	0.003116	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02881	0.02628	2	No	20	0.02755	0.002228	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.08	0.063	2	No	20	0.06972	0.007677	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-27S	0.1039	0.0922	2	No	20	0.09807	0.01032	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28I	0.08972	0.08359	2	No	20	0.08666	0.005406	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28S	0.2227	0.1956	2	No	20	0.2045	0.03853	0	None	x^3	0.01	Param.
Barium (mg/L)	YGWC-29I	0.0741	0.057	2	No	20	0.07329	0.03326	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-26S	0.0002	0.0001	0.004	No	18	0.0001871	0.0001214	11.11	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.00023	0.00013	0.004	No	18	0.0002287	0.000133	16.67	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27S	0.0005	0.00011	0.004	No	18	0.0004542	0.0001334	88.89	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.0005	0.0001	0.005	No	18	0.0002433	0.0001738	11.11	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28S	0.0005	0.00048	0.005	No	18	0.0004989	0.000004714	94.44	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29I	0.0002269	0.000133	0.005	No	18	0.0002561	0.0001283	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	YGWC-26I	0.005	0.00065	0.1	No	18	0.003302	0.002181	55.56	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002168	0.001036	0.1	No	18	0.002444	0.001669	16.67	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	YGWC-27I	0.012	0.005	0.1	No	18	0.005389	0.00165	94.44	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-27S	0.015	0.0027	0.1	No	18	0.004636	0.003098	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.0005	0.1	No	18	0.004245	0.001737	83.33	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.0006	0.1	No	18	0.004255	0.001714	83.33	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.005	0.0005	0.1	No	18	0.00475	0.001061	94.44	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002726	0.001852	0.035	No	20	0.00233	0.0008436	5	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.01556	0.003277	0.035	No	20	0.01786	0.02632	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.0026	0.0022	0.035	No	20	0.002485	0.0006343	5	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	20	0.004771	0.001024	95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0012	0.00092	0.035	No	20	0.001401	0.001238	10	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.005	0.00094	0.035	No	20	0.003903	0.001952	75	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.033	0.4988	6.92	No	19	0.8084	0.5034	5.263	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.8674	0.542	6.92	No	20	0.7047	0.2866	5	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	3.969	2.649	6.92	No	20	3.309	1.163	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.054	0.6533	6.92	No	20	0.8539	0.3532	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.8302	0.4395	6.92	No	20	0.6348	0.344	5	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9422	0.5182	6.92	No	20	0.7302	0.3734	5	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.121	0.7006	6.92	No	20	0.9107	0.37	5	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.06	4	No	21	0.08333	0.02085	42.86	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.044	4	No	21	0.1316	0.09704	71.43	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.1	0.07	4	No	21	0.09205	0.02537	57.14	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27S	0.198	0.0988	4	No	21	0.1609	0.1027	19.05	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.14	0.078	4	No	21	0.126	0.08016	23.81	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2617	0.1525	4	No	21	0.2071	0.09897	9.524	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.09347	0.05957	4	No	21	0.08729	0.03064	33.33	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	YGWC-26I	0.001	0.000059	0.0013	No	16	0.0008819	0.0003228	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.001	0.000064	0.0013	No	16	0.0007094	0.0004453	68.75	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.001	0.0002	0.0013	No	16	0.0007748	0.0003672	62.5	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.001	0.000063	0.0013	No	16	0.0007071	0.0004487	68.75	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29I	0.001	0.00016	0.0013	No	16	0.0008326	0.0003604	81.25	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007173	0.006577	0.03	No	20	0.006875	0.000524	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.01022	0.007926	0.03	No	20	0.009075	0.002024	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.0013	0.03	No	20	0.02711	0.008909	90	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.007056	0.006654	0.03	No	20	0.006855	0.0003531	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.03	No	20	0.02876	0.005523	95	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29I	0.0066	0.0053	0.03	No	20	0.007145	0.005444	5	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-27I	0.01	0.0014	0.014	No	20	0.005855	0.004298	50	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.014	No	20	0.00519	0.004465	45	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00083	0.014	No	20	0.008144	0.003809	80	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29I	0.01	0.00083	0.014	No	20	0.009541	0.00205	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0031	0.0018	0.05	No	18	0.002483	0.001035	11.11	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	No	18	0.004128	0.001694	77.78	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	No	18	0.004789	0.0008957	94.44	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	No	18	0.004778	0.0009428	94.44	None	No	0.01	NP (NDs)

FIGURE A.

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 10/30/2021 2:09 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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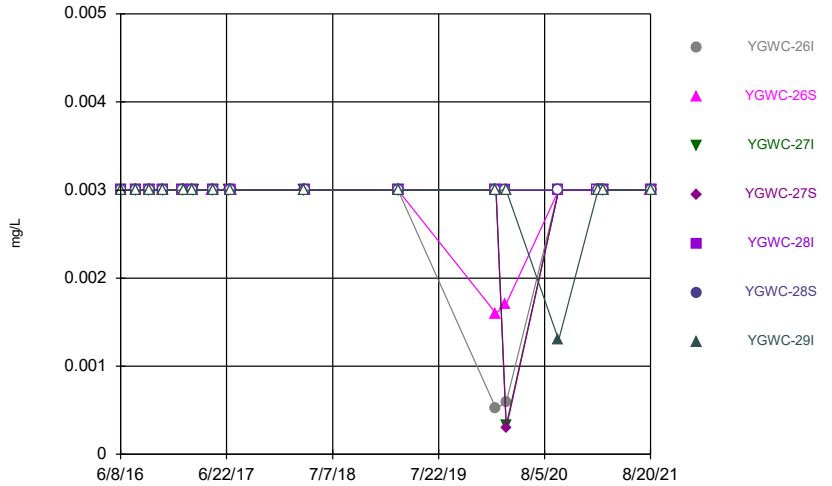

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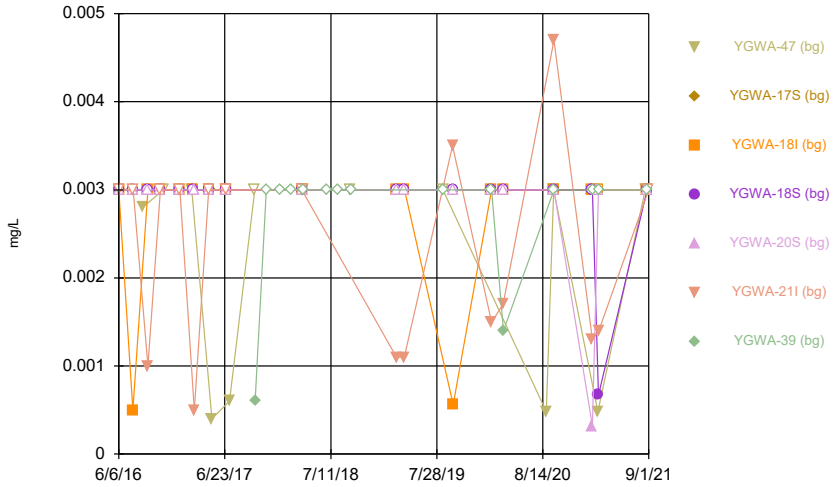

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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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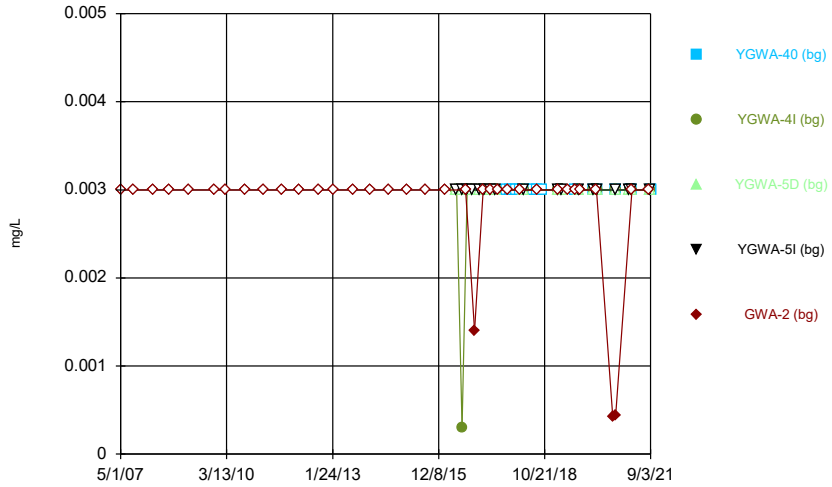

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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
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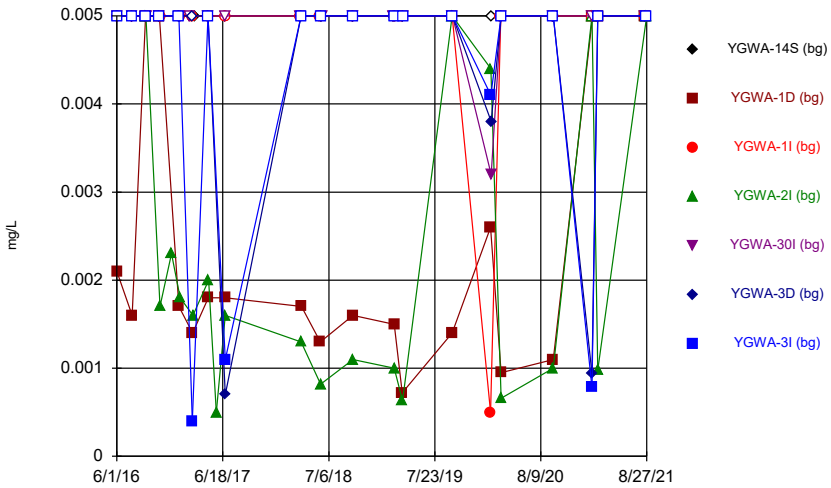

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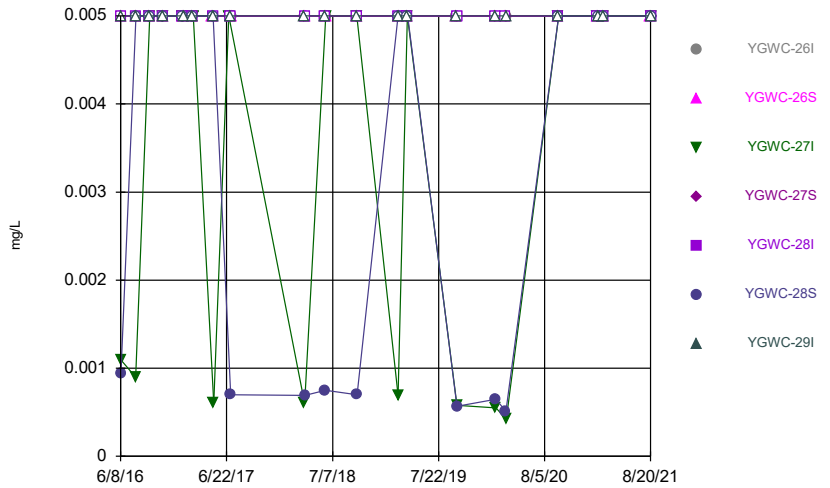
Hollow symbols indicate censored values.

Time Series



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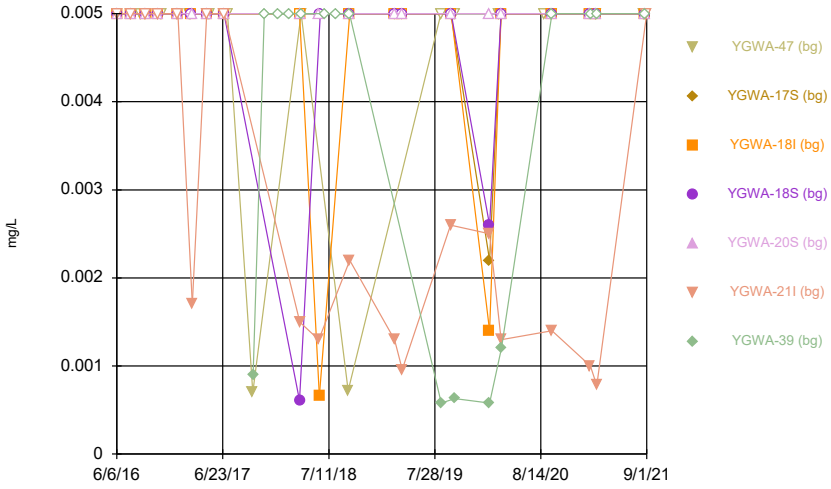

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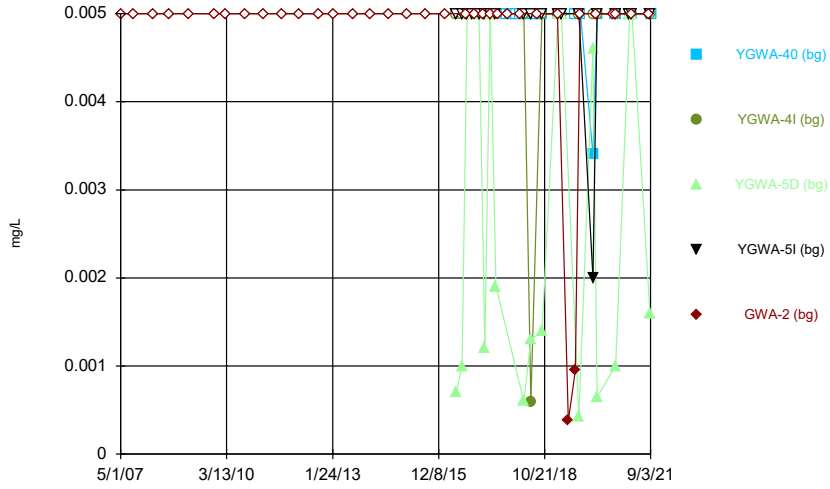

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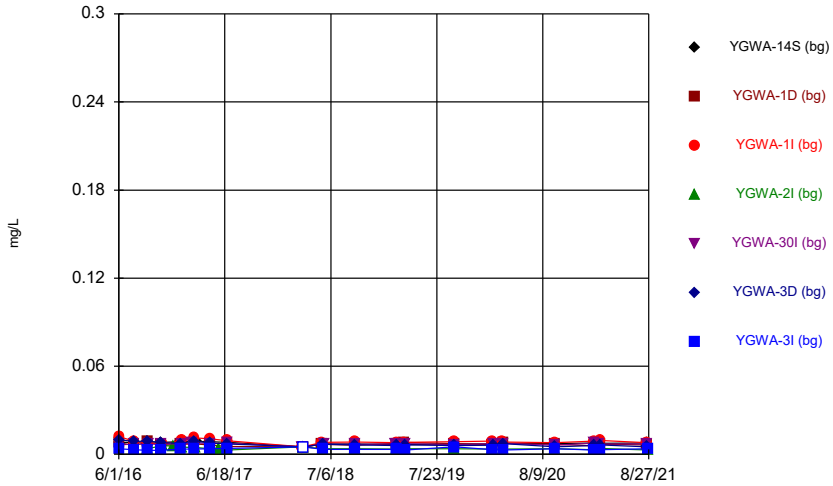
Hollow symbols indicate censored values.

Time Series



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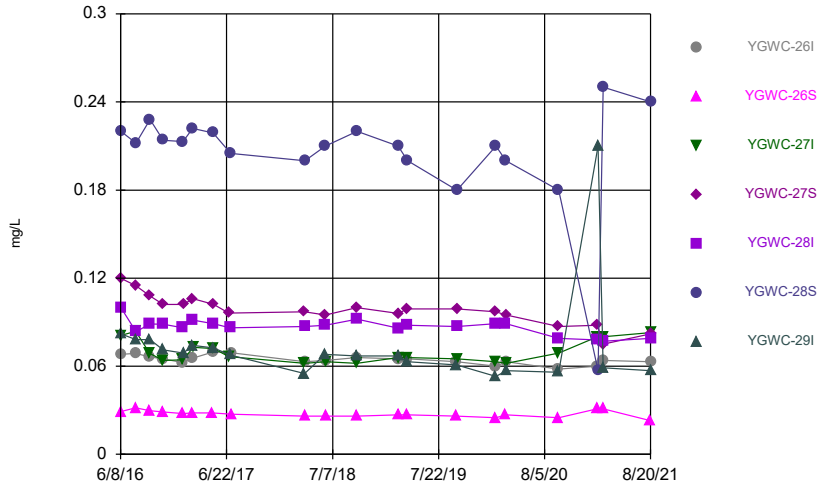
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

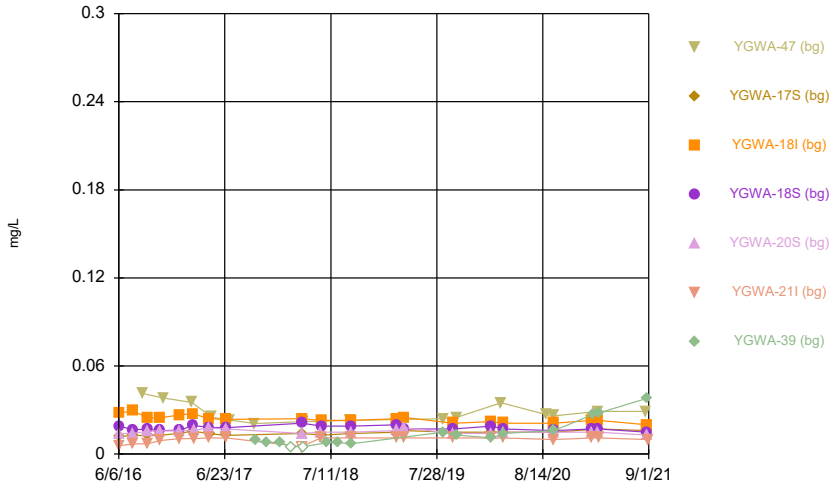
Time Series



Constituent: Barium Analysis Run 10/30/2021 2:09 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

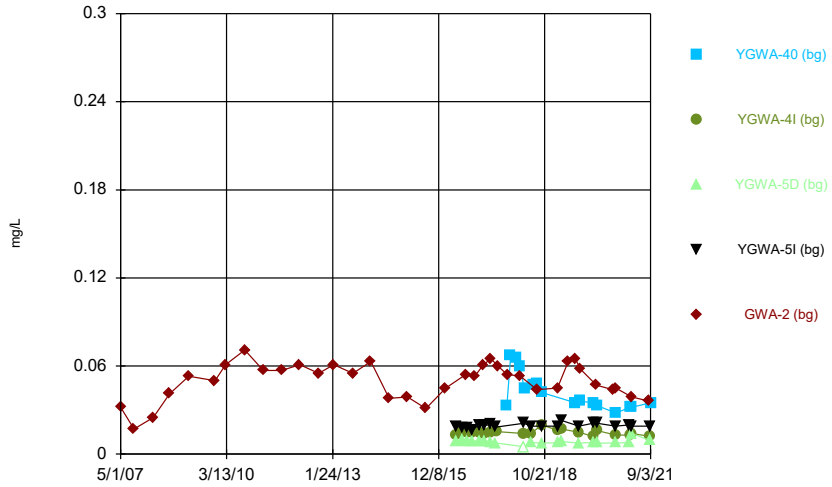
Time Series



Constituent: Barium Analysis Run 10/30/2021 2:09 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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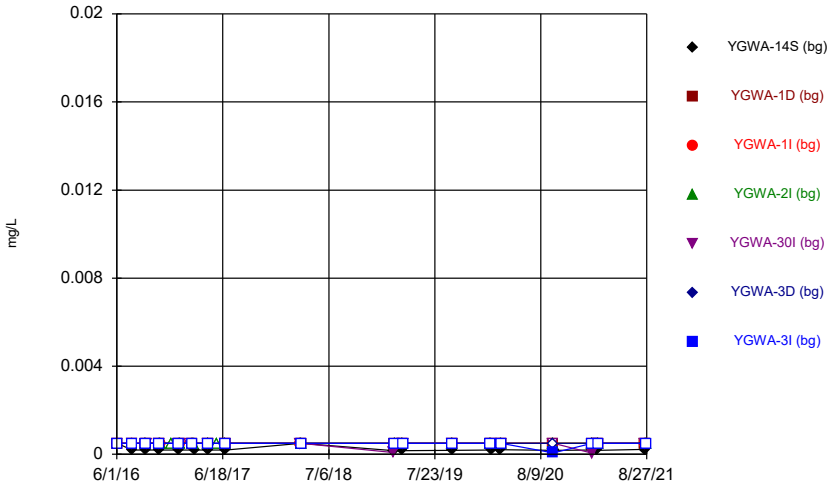
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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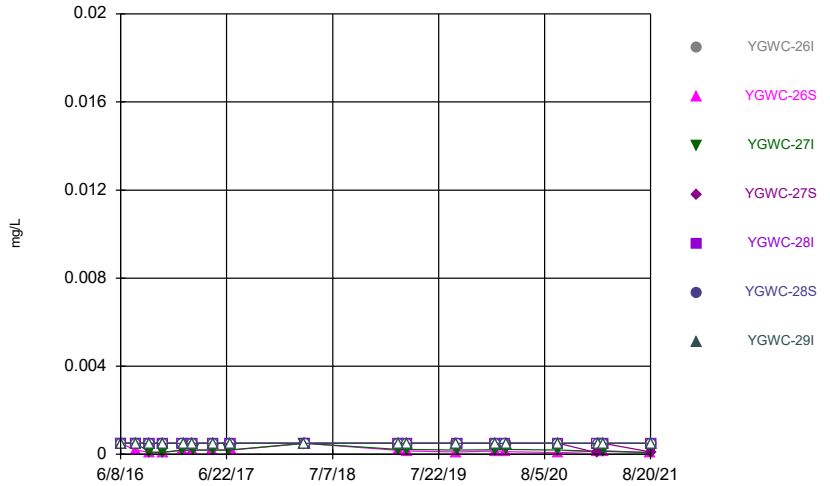
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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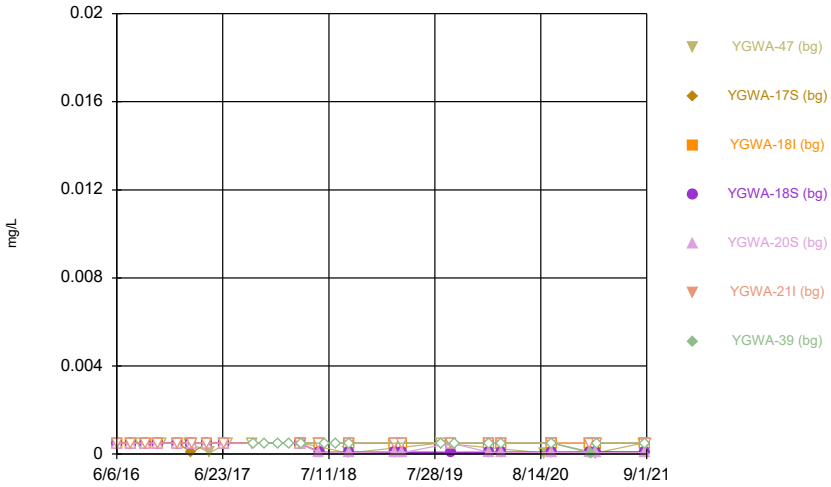
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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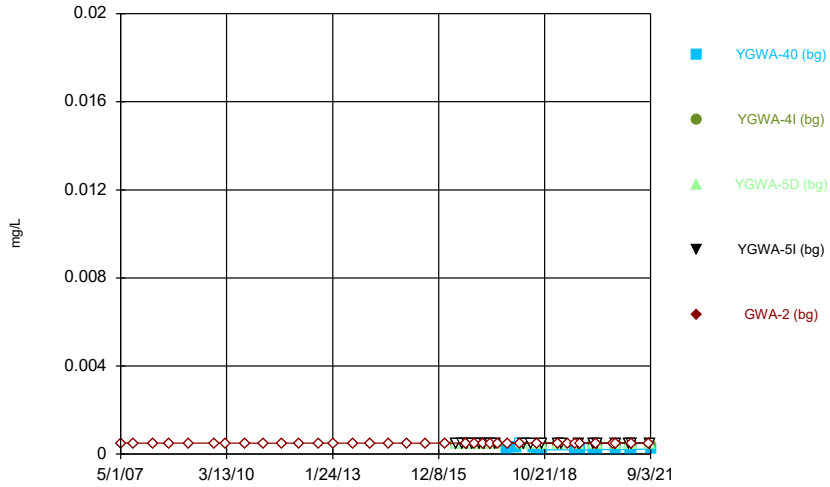
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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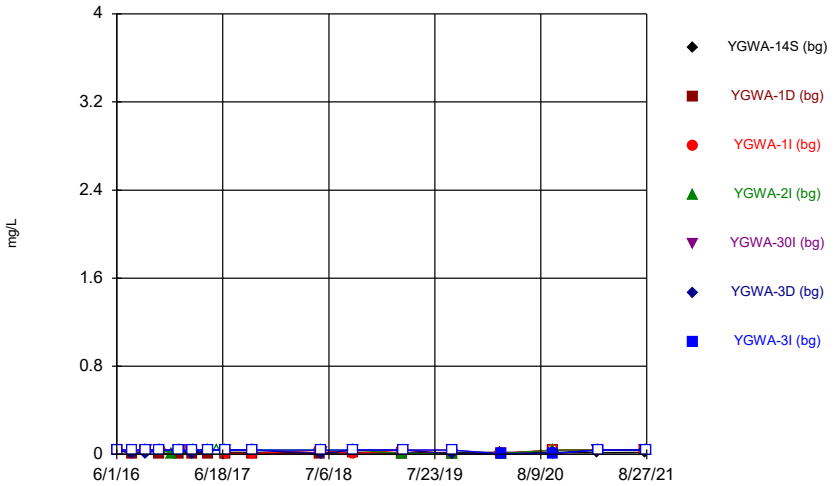
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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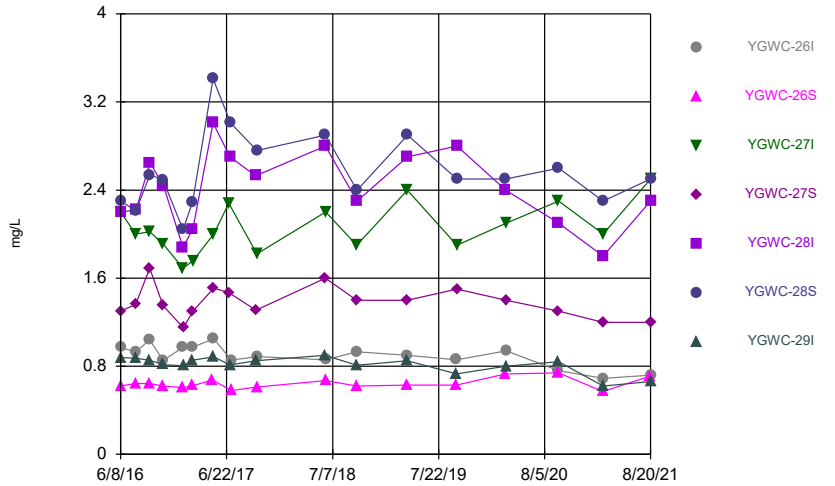
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Time Series



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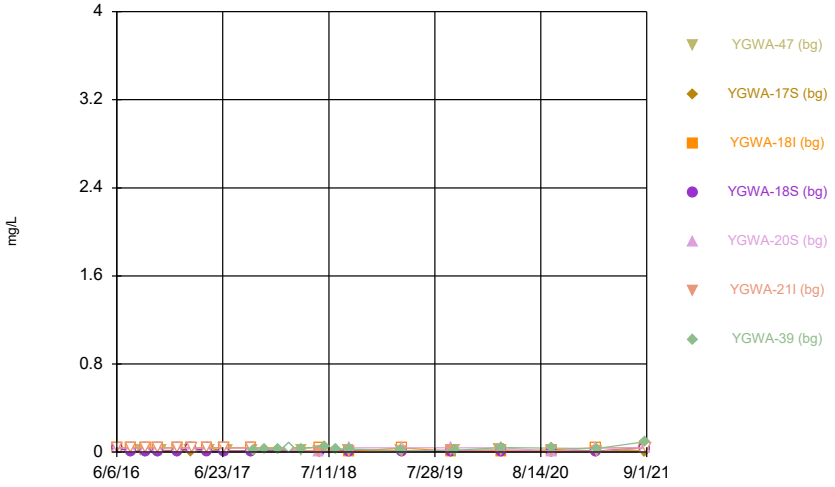
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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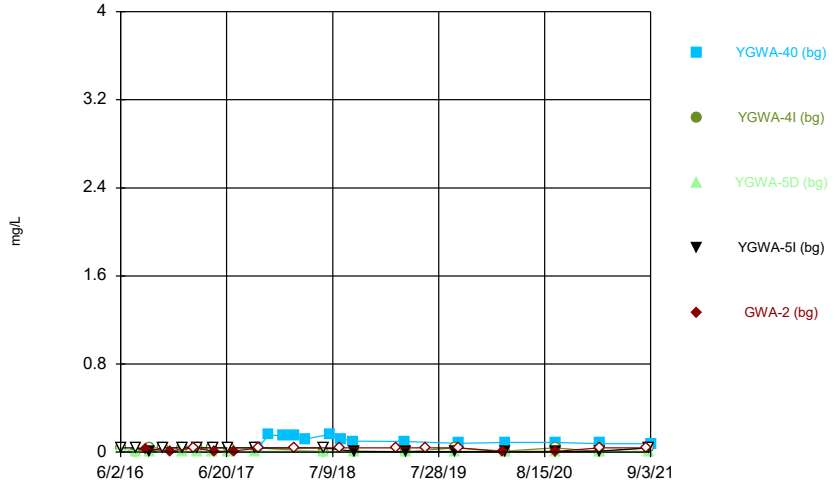
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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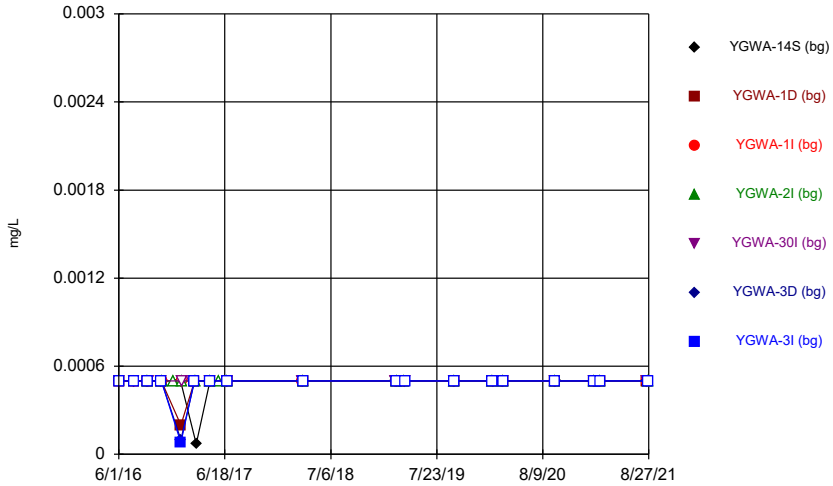
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Analysis Run 10/30/2021 2:09 PM
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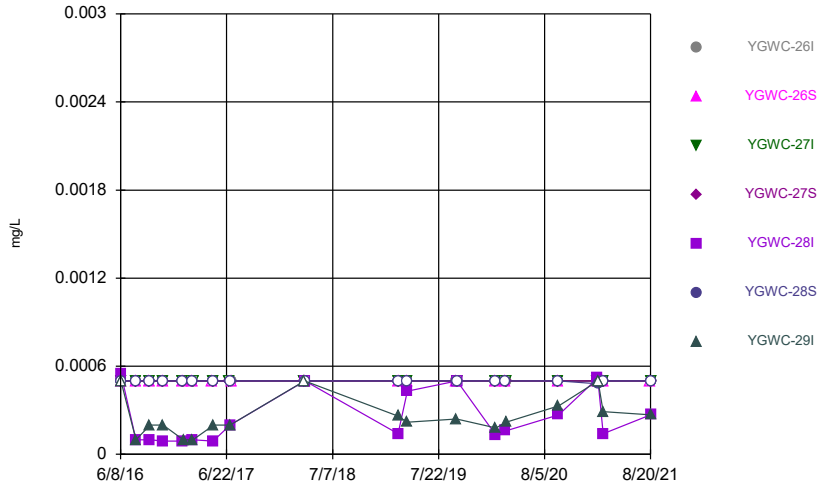
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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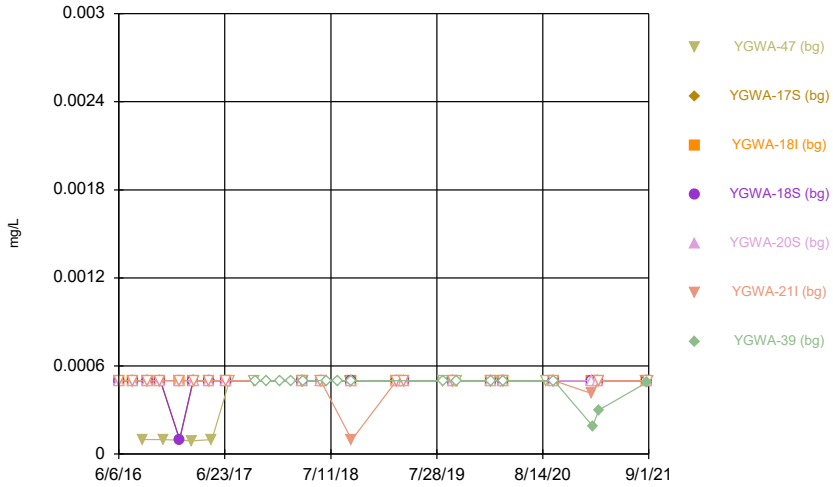
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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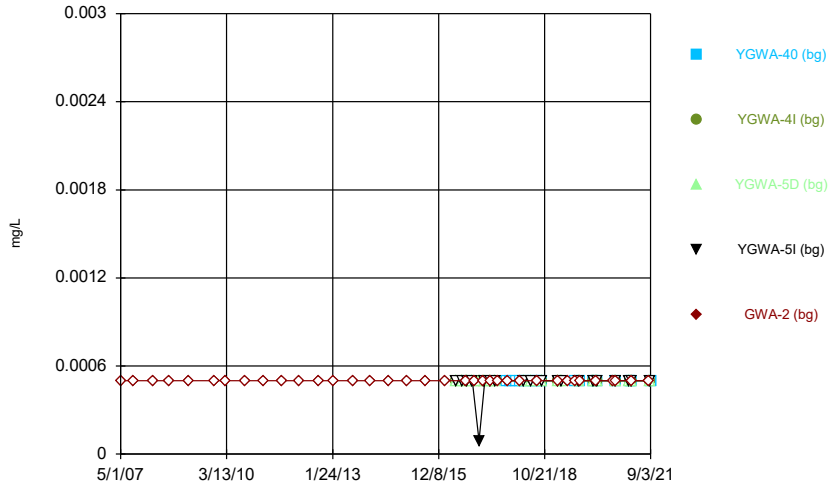
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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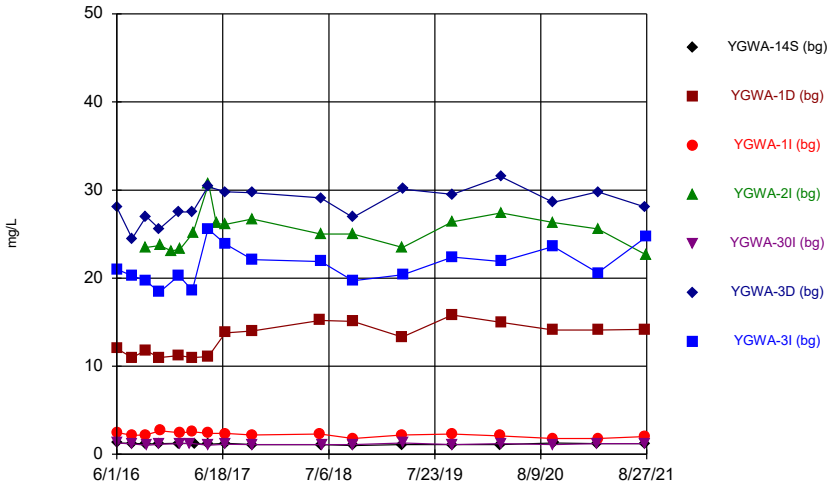
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Time Series



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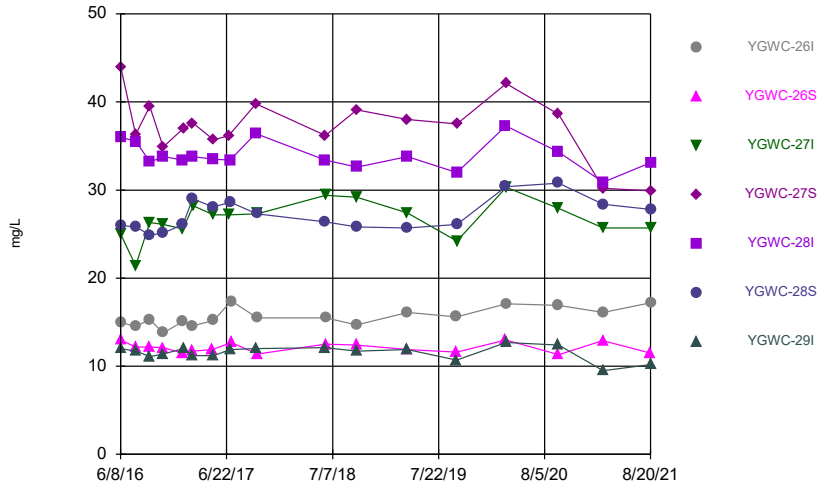
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Time Series

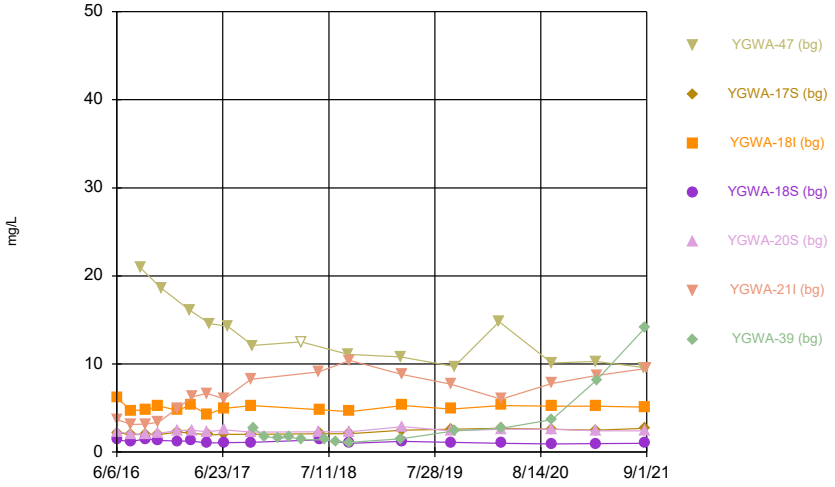


Constituent: Calcium Analysis Run 10/30/2021 2:09 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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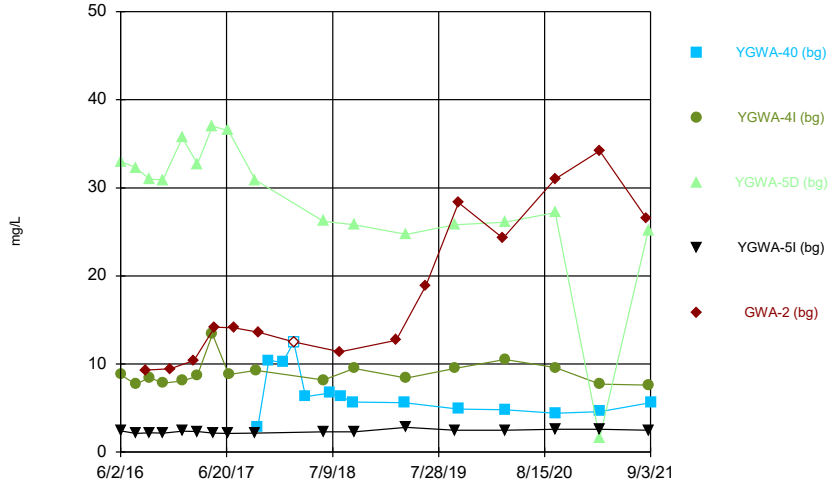
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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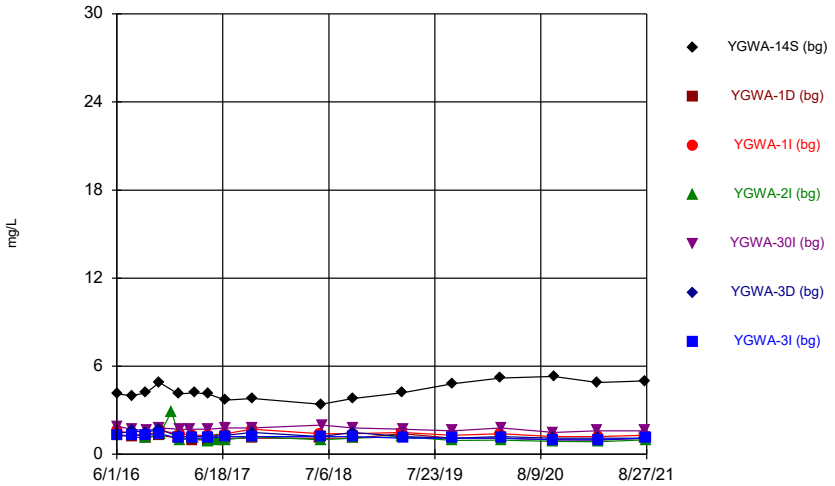
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Time Series

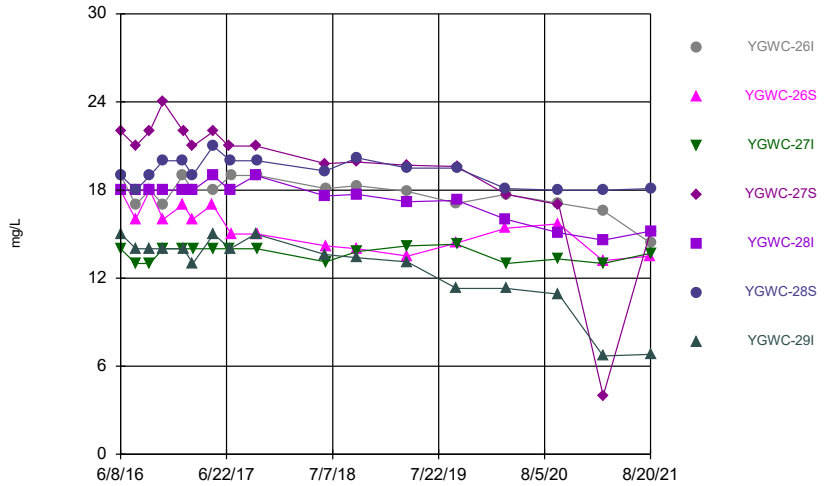


Constituent: Chloride Analysis Run 10/30/2021 2:09 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Time Series



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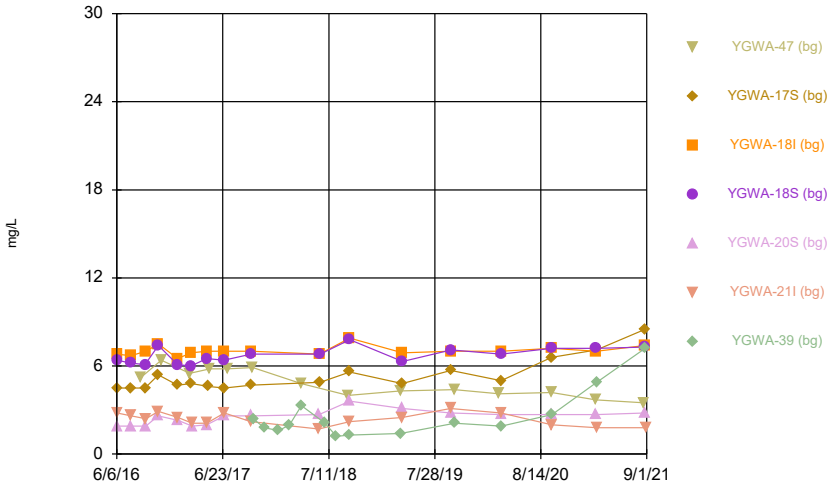
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Time Series



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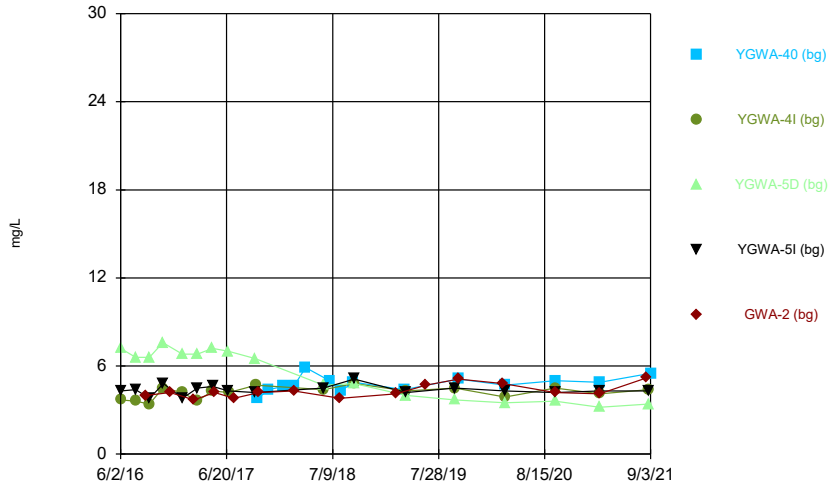
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Time Series



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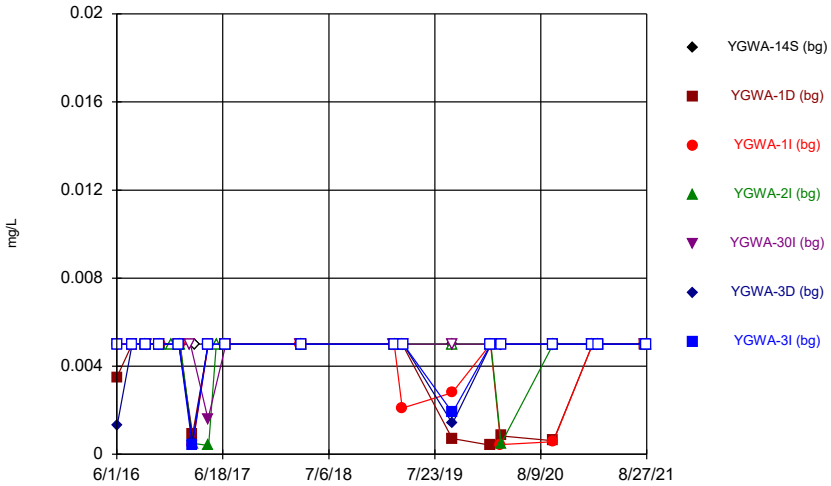
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

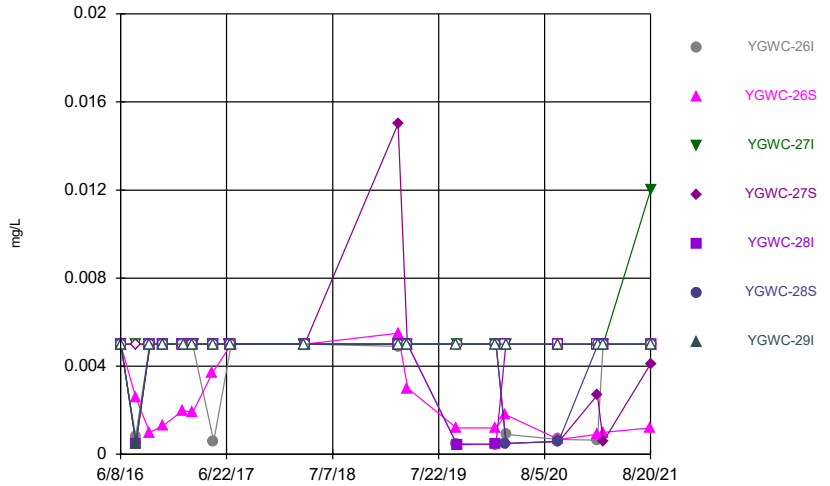
Time Series



Constituent: Chromium Analysis Run 10/30/2021 2:09 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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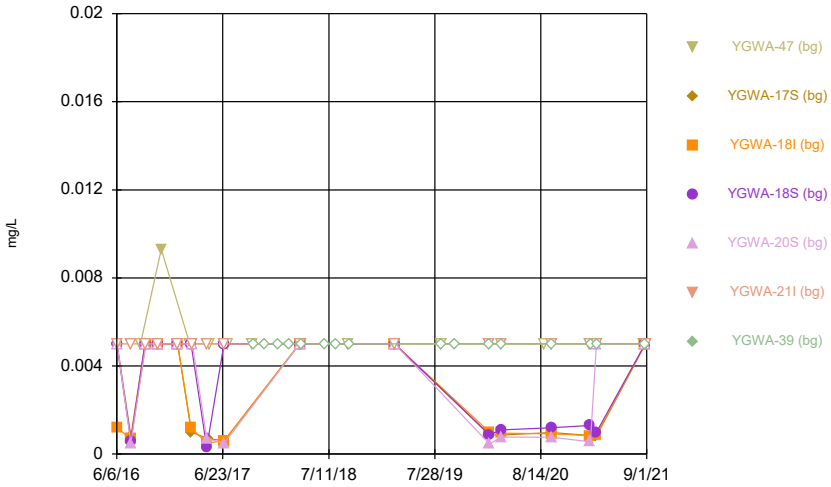
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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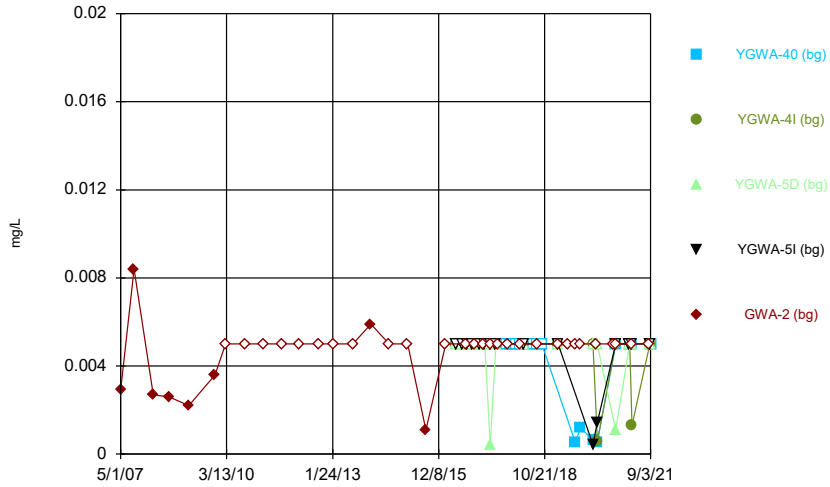
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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Hollow symbols indicate censored values.

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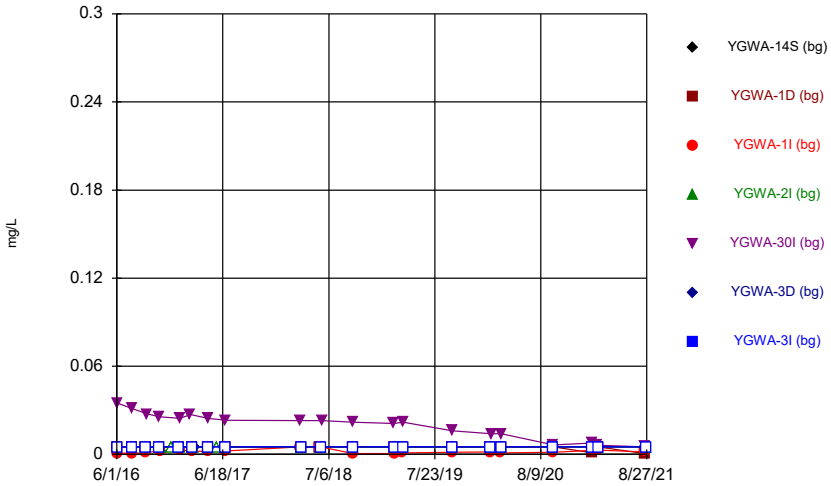
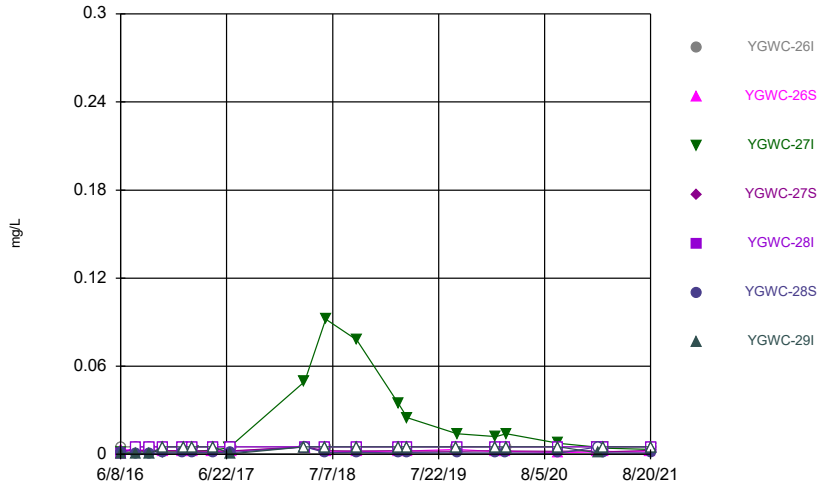


Constituent: Cobalt Analysis Run 10/30/2021 2:09 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

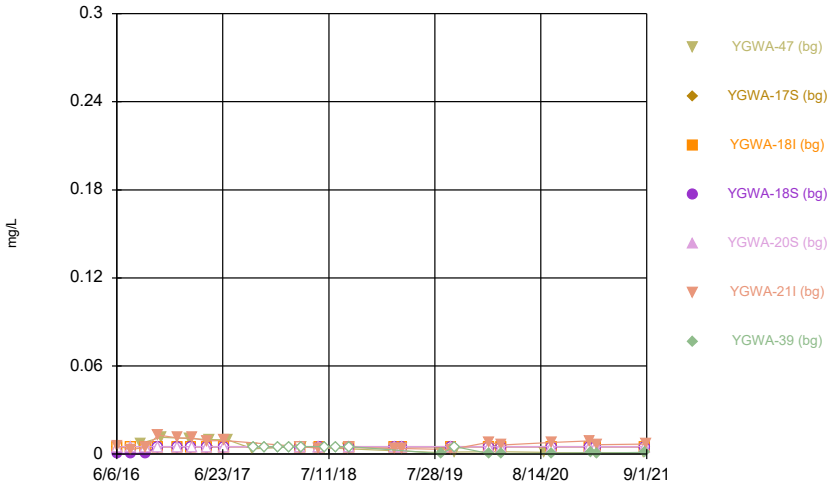
Time Series



Constituent: Cobalt Analysis Run 10/30/2021 2:09 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 10/30/2021 2:09 PM
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Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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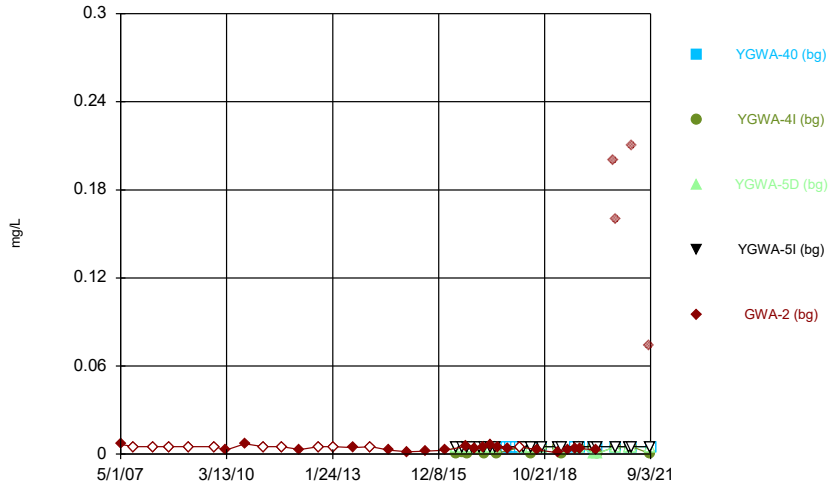

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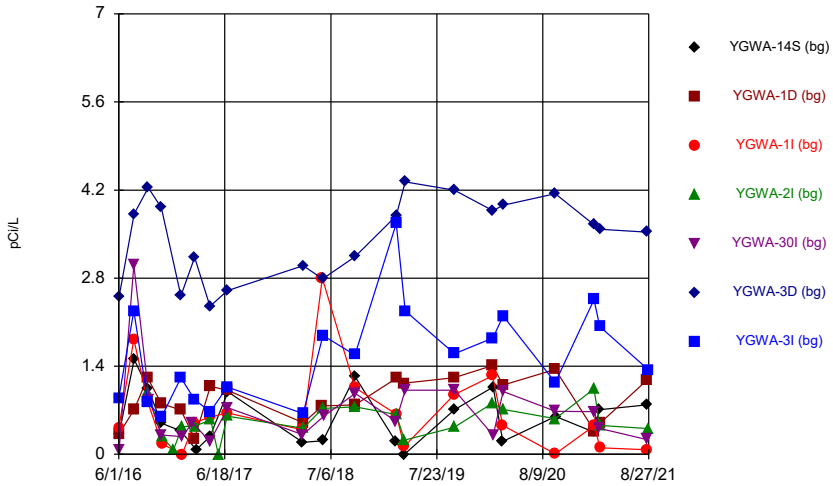
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Time Series



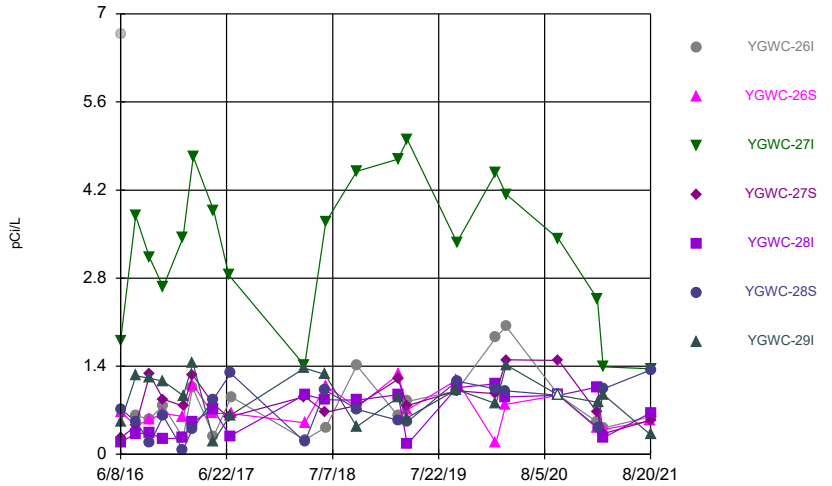
Constituent: Combined Radium 226 + 228 Analysis Run 10/30/2021 2:09 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

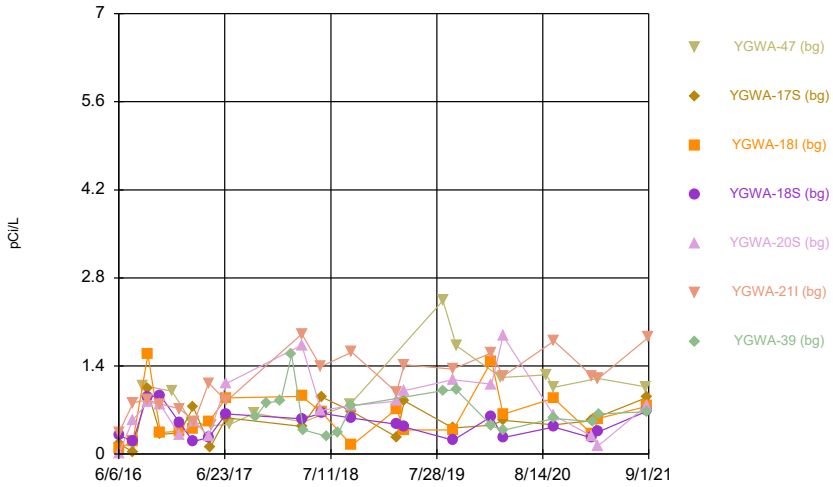


Constituent: Combined Radium 226 + 228 Analysis Run 10/30/2021 2:09 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Time Series

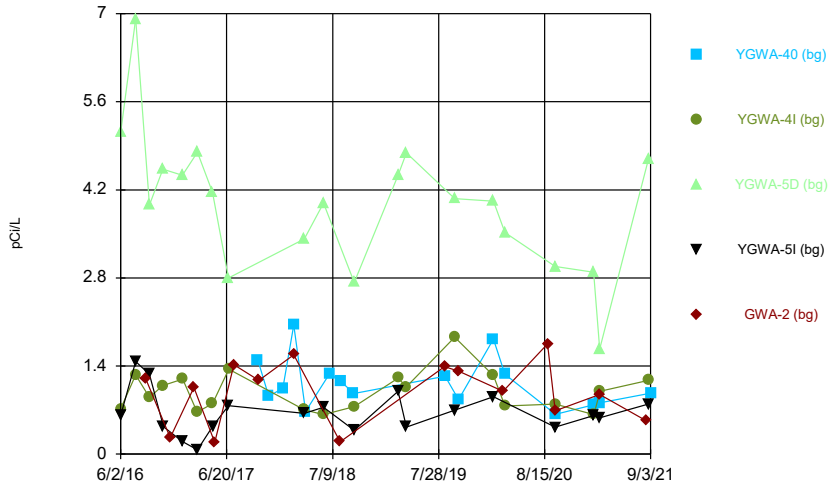


Constituent: Combined Radium 226 + 228 Analysis Run 10/30/2021 2:10 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Time Series



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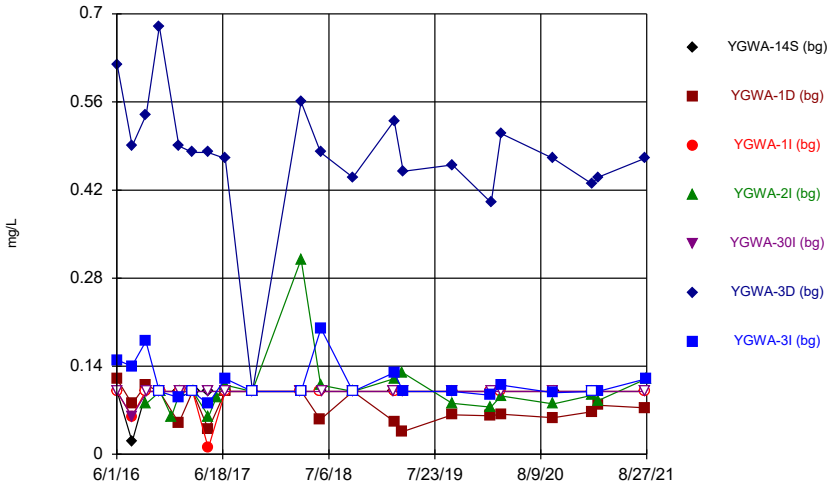
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

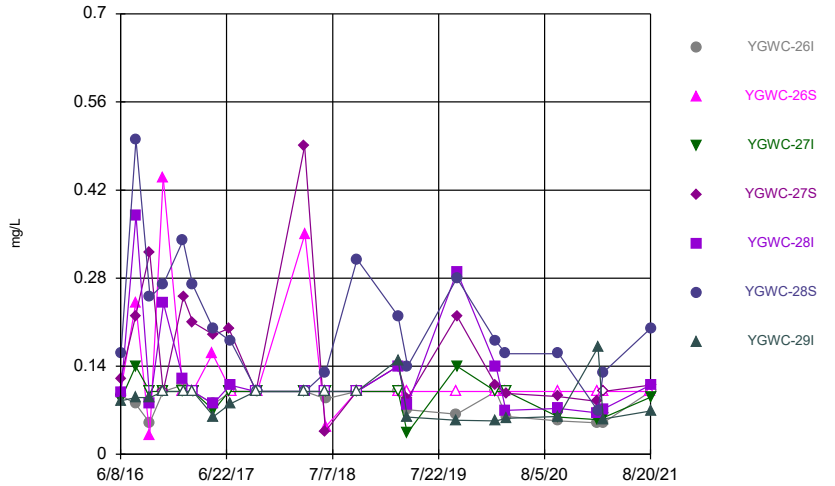
Time Series



Constituent: Fluoride Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

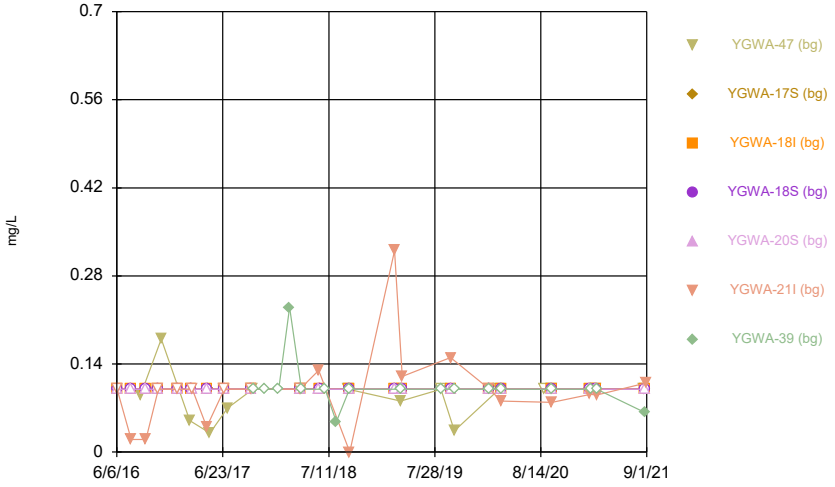
Time Series



Constituent: Fluoride Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

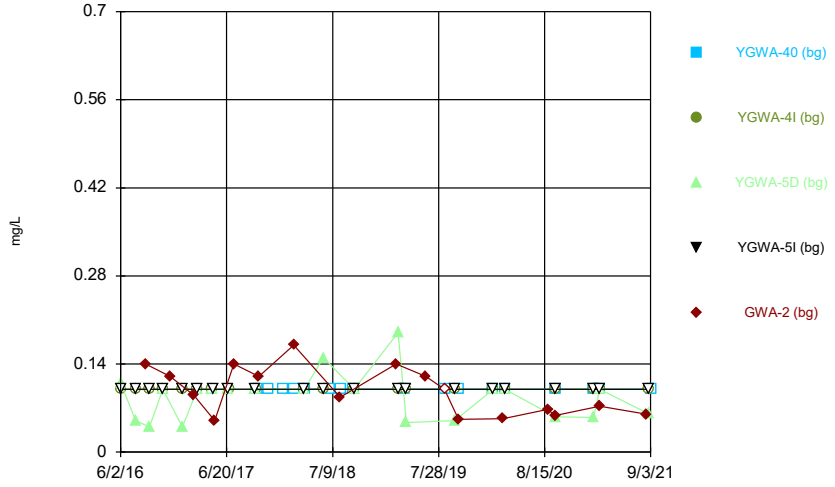
Time Series



Constituent: Fluoride Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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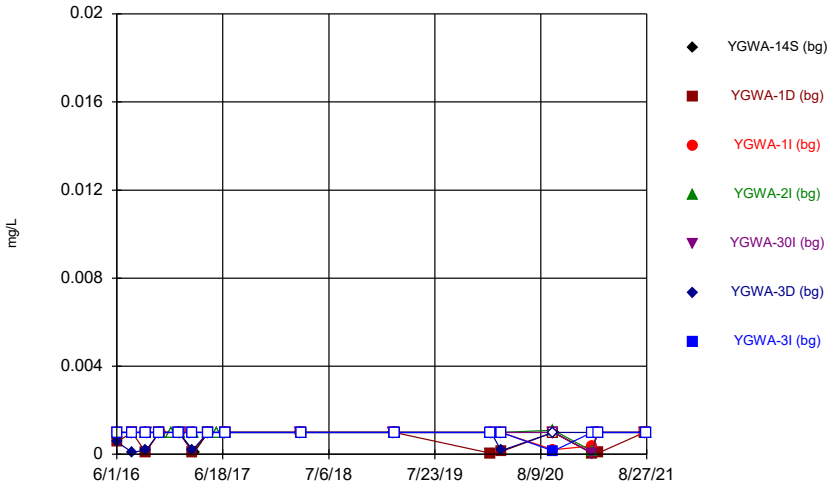
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

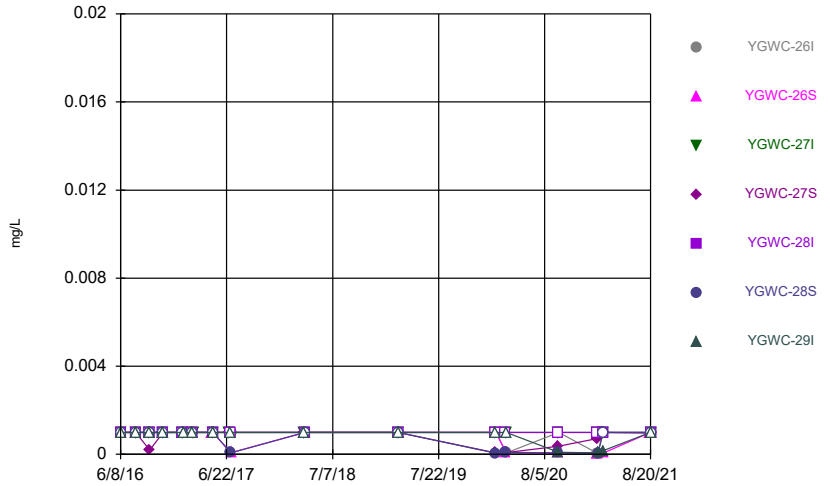
Time Series



Constituent: Lead Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

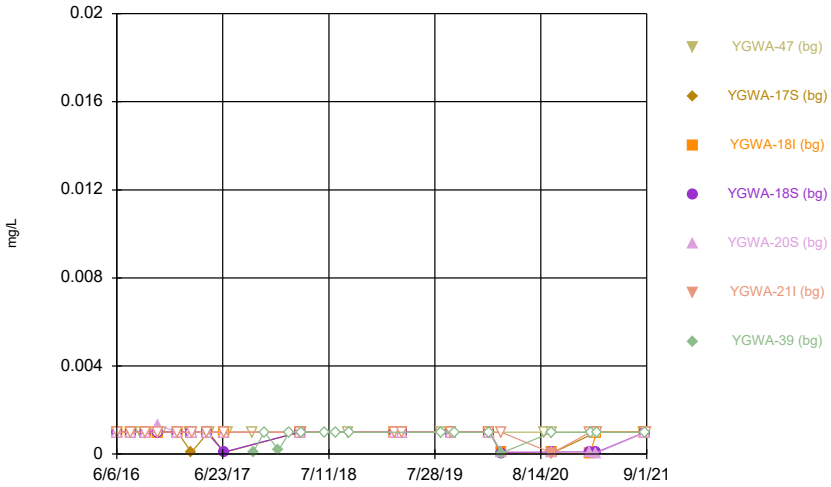
Time Series



Constituent: Lead Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

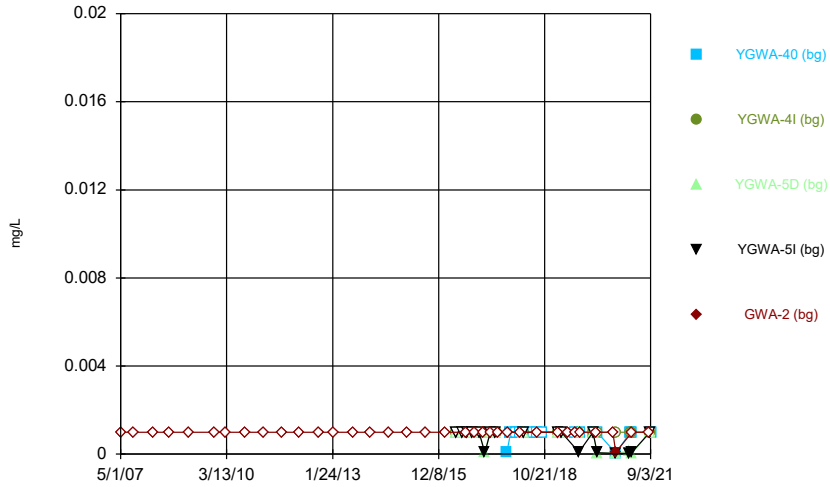
Time Series



Constituent: Lead Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

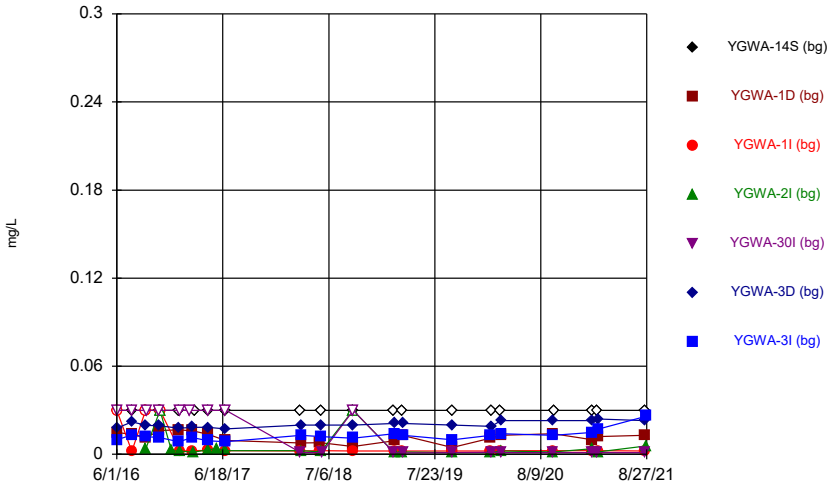
Time Series



Constituent: Lead Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

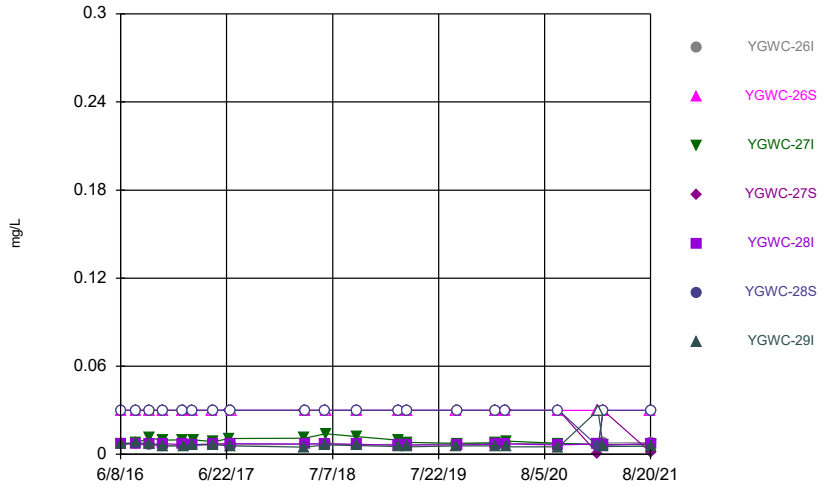
Time Series



Constituent: Lithium Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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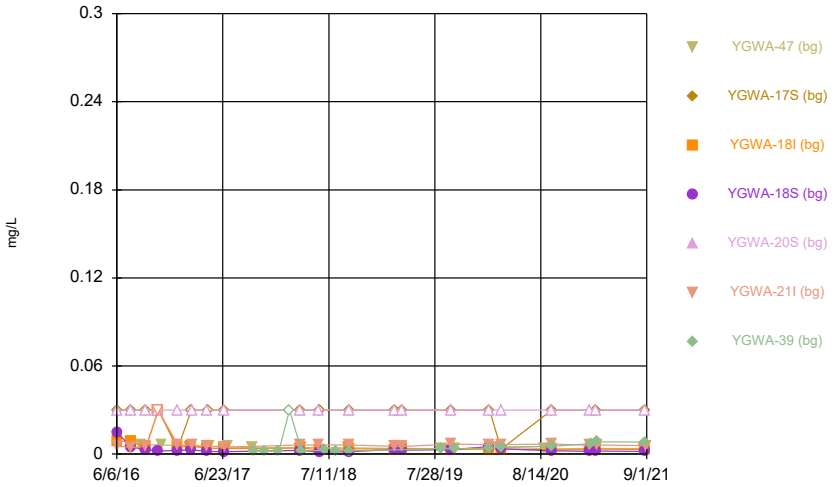
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

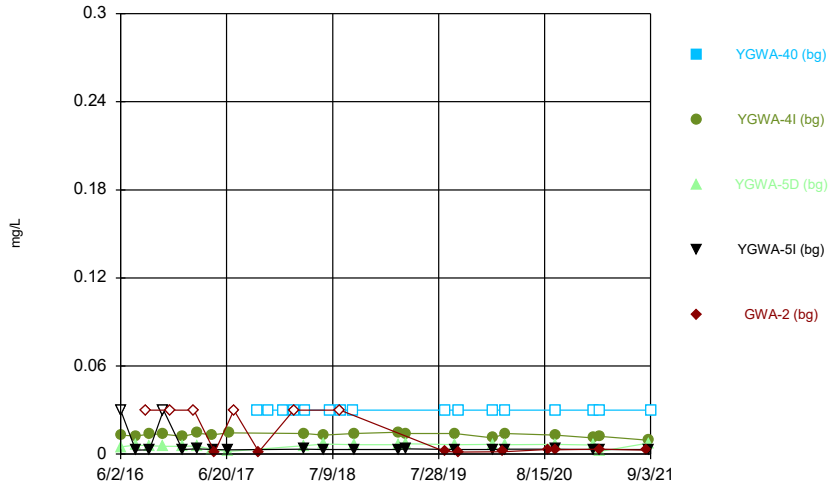
Time Series



Constituent: Lithium Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

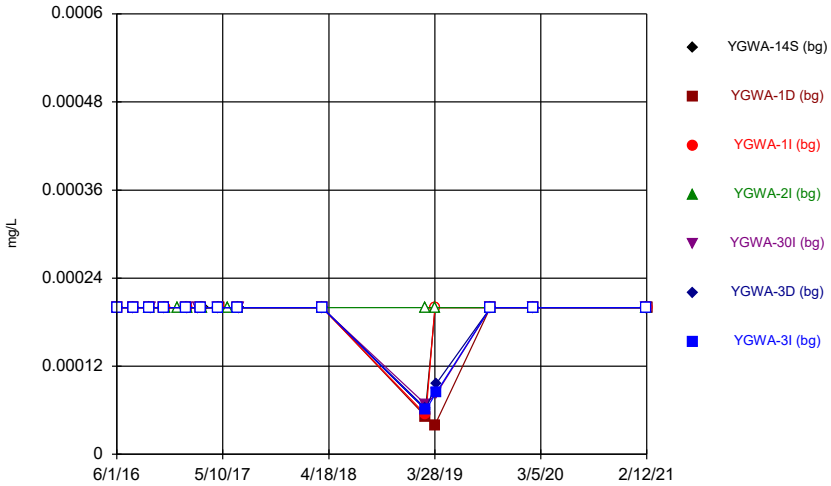
Time Series



Constituent: Lithium Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

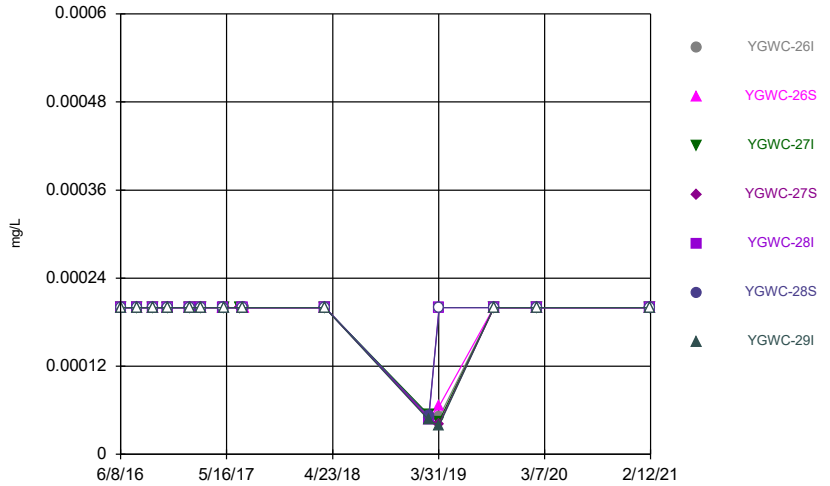
Time Series



Constituent: Mercury Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

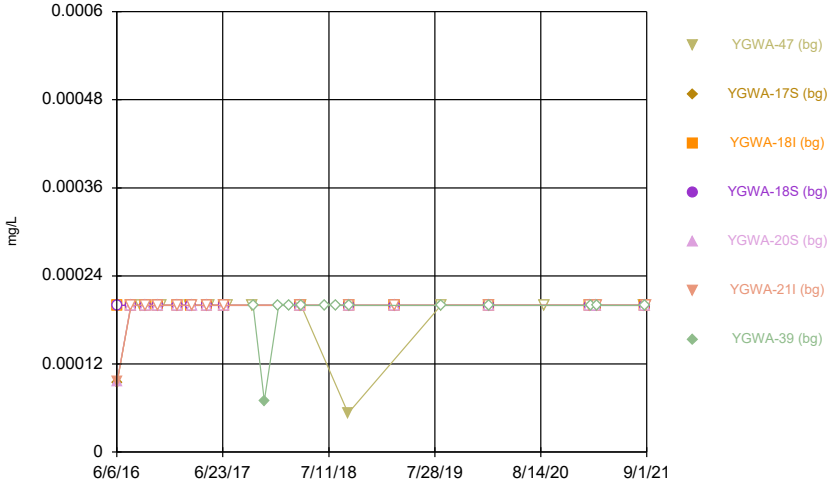
Time Series



Constituent: Mercury Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

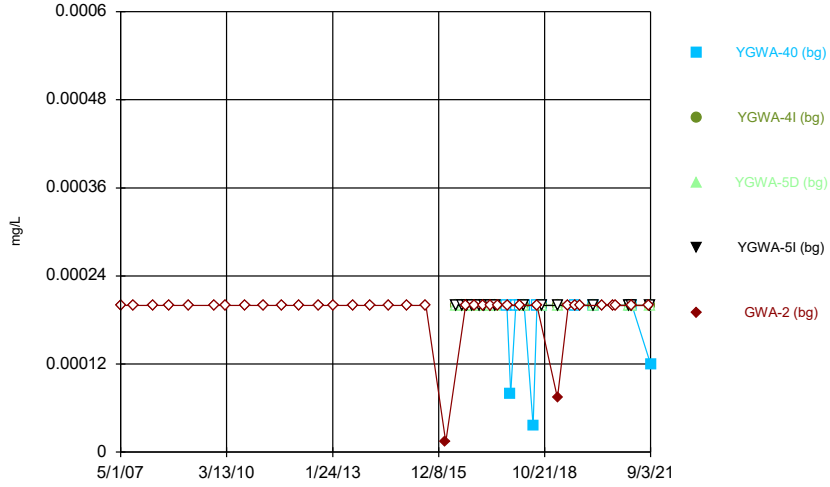
Time Series



Constituent: Mercury Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

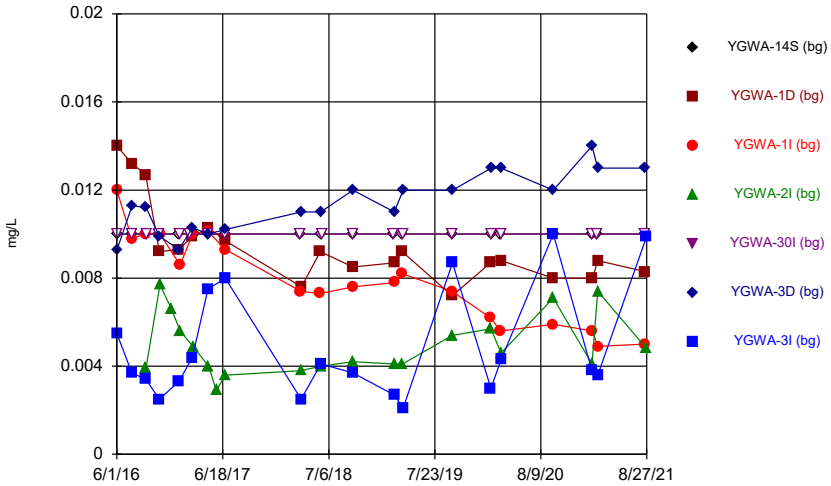
Time Series



Constituent: Mercury Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

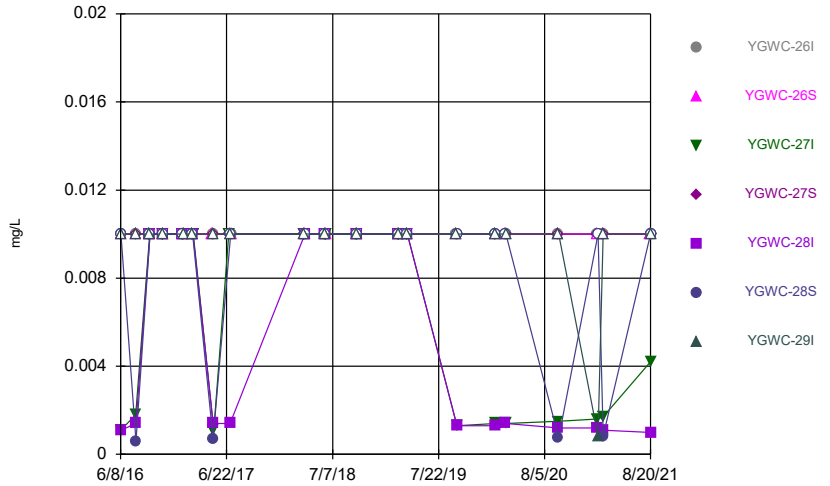
Time Series



Constituent: Molybdenum Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

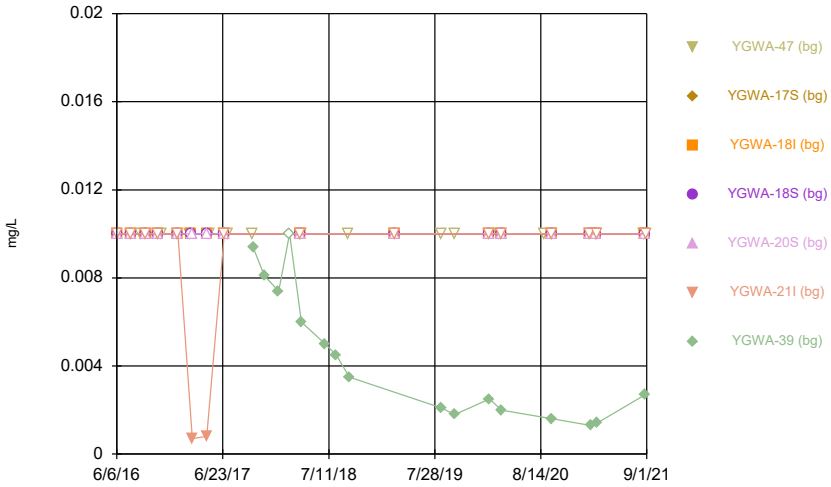
Time Series



Constituent: Molybdenum Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

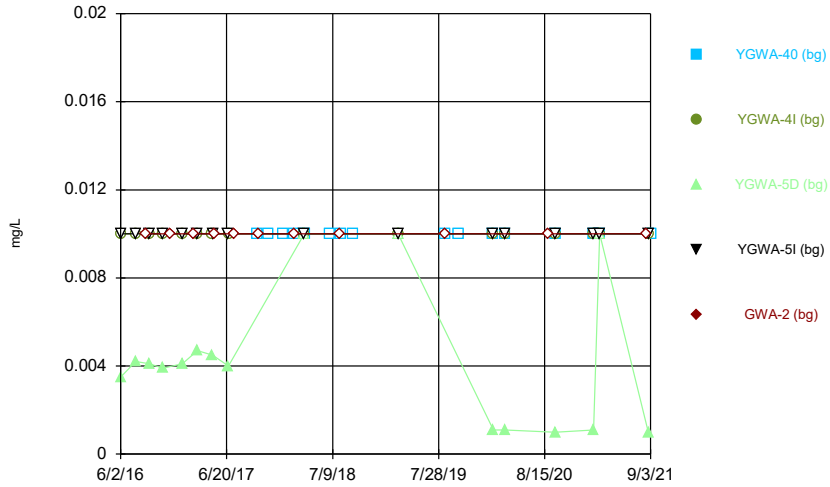
Time Series



Constituent: Molybdenum Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

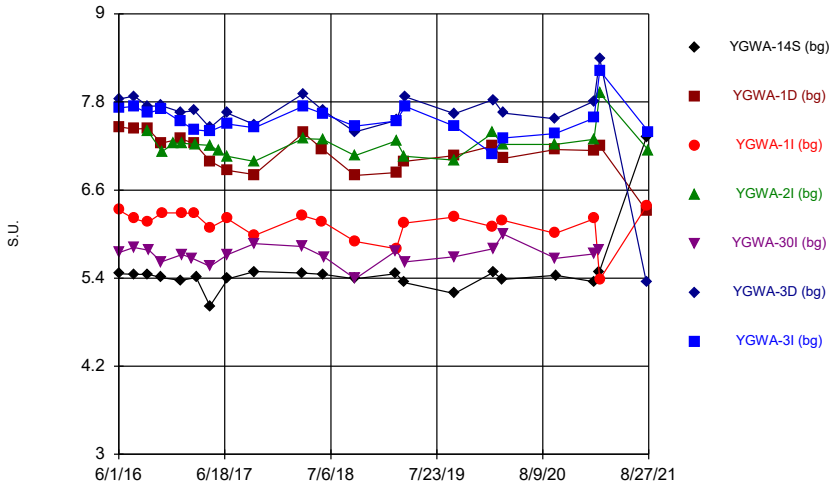
Time Series



Constituent: Molybdenum Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Time Series

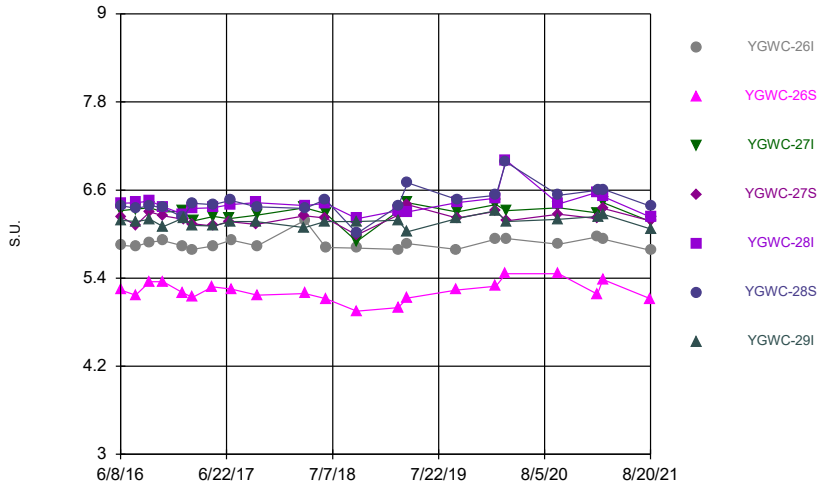


Constituent: pH Analysis Run 10/30/2021 2:10 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Time Series

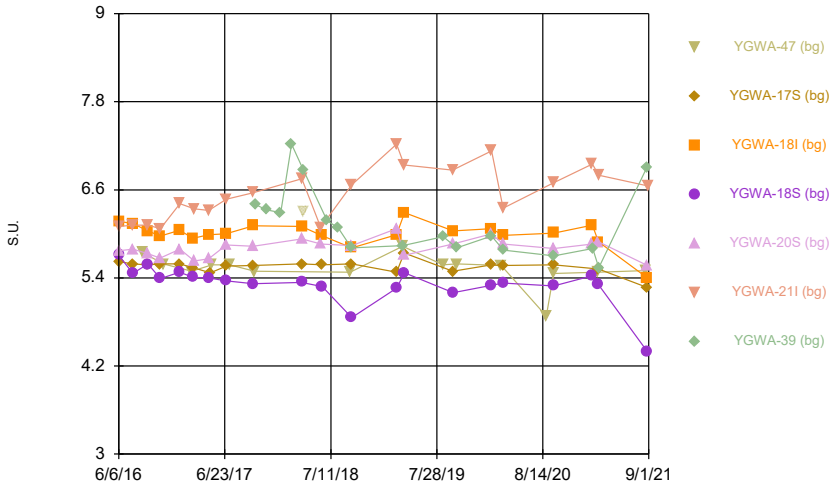


Constituent: pH Analysis Run 10/30/2021 2:10 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Time Series

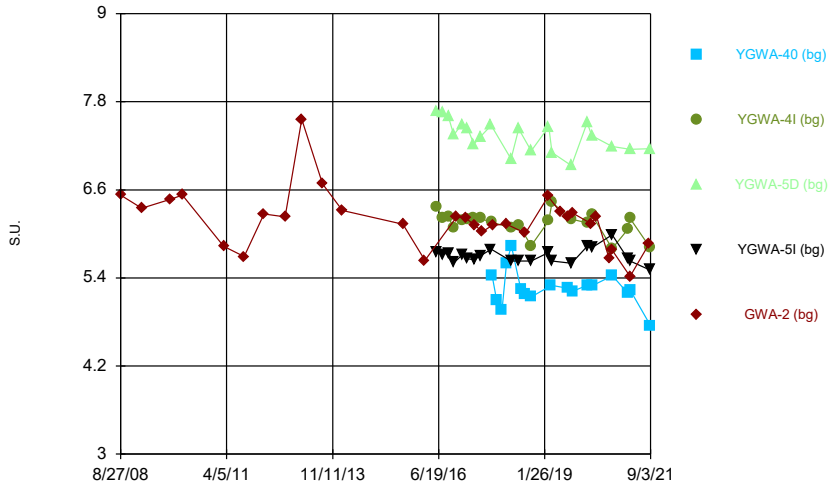


Constituent: pH Analysis Run 10/30/2021 2:10 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Time Series

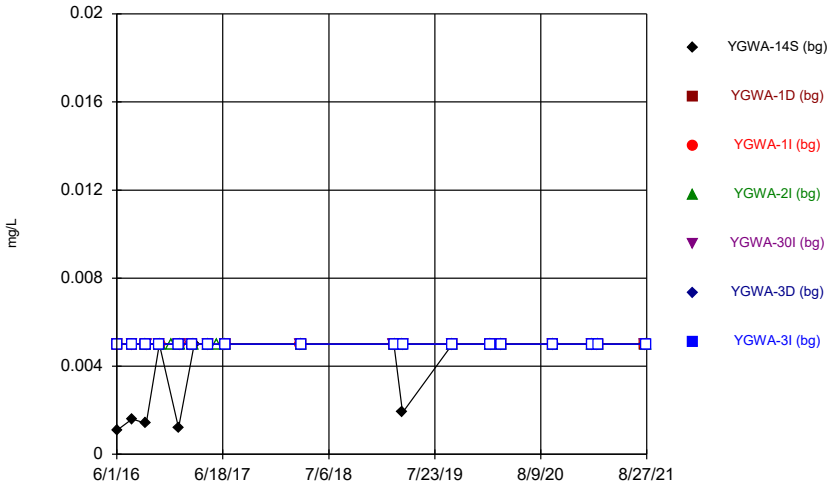


Constituent: pH Analysis Run 10/30/2021 2:10 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

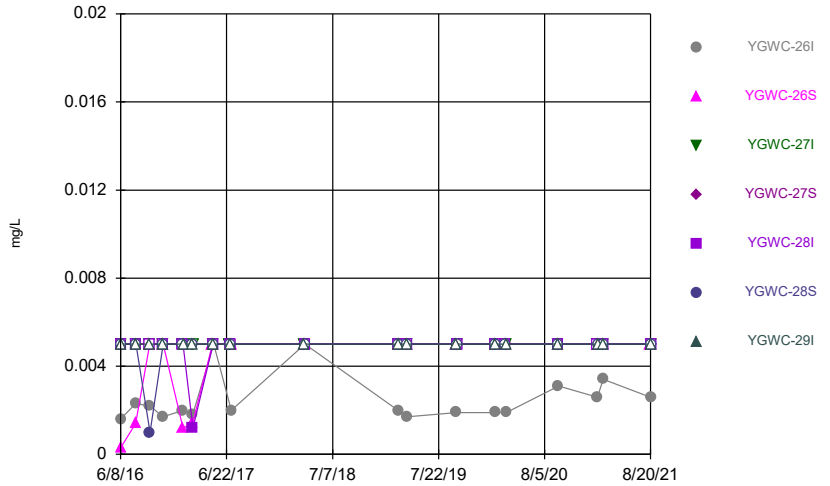
Time Series



Constituent: Selenium Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

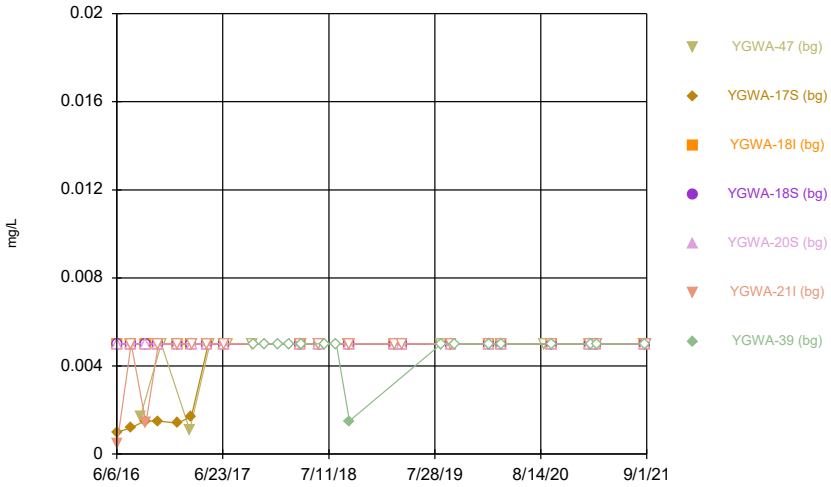
Time Series



Constituent: Selenium Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

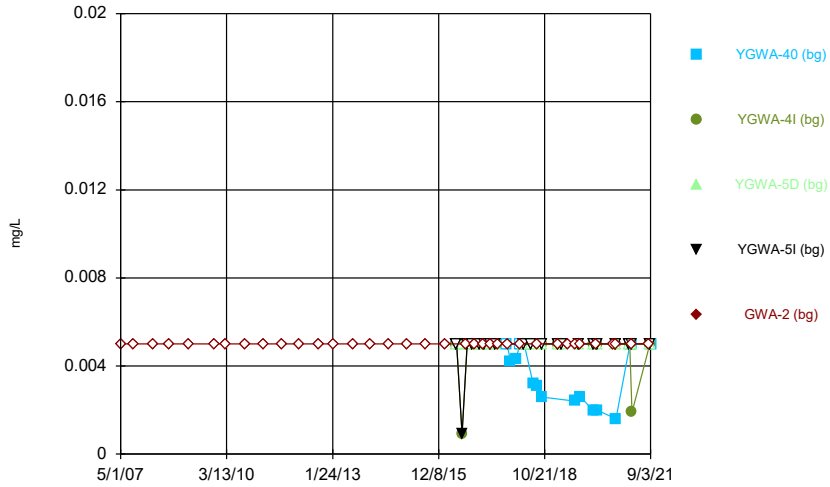
Time Series



Constituent: Selenium Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

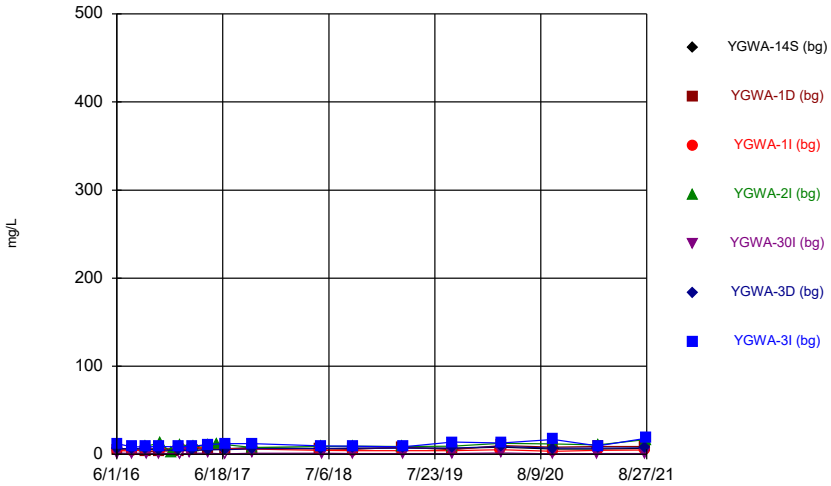
Time Series



Constituent: Selenium Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

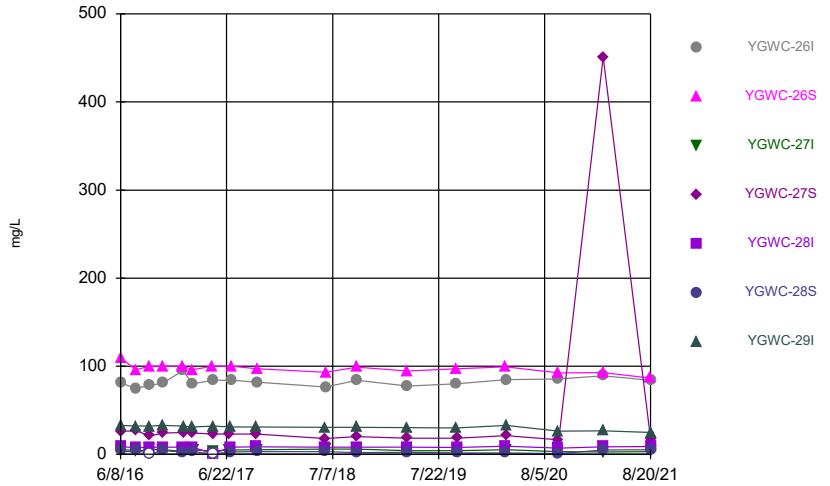
Time Series



Constituent: Sulfate Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

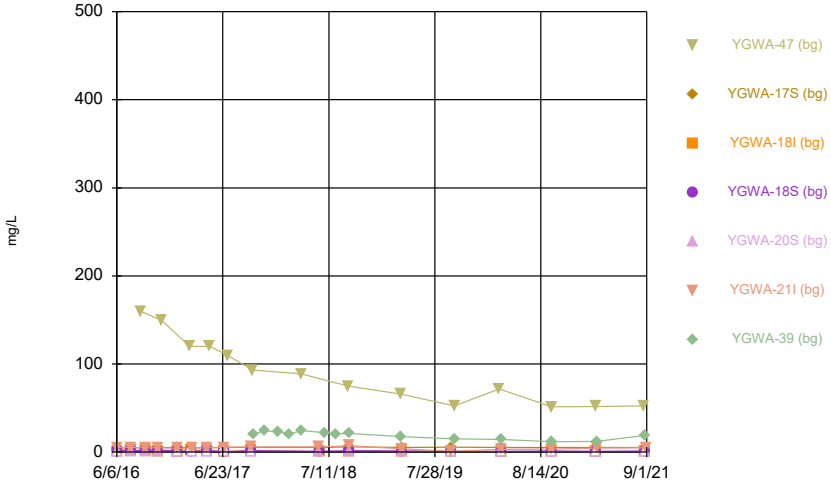
Time Series



Constituent: Sulfate Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

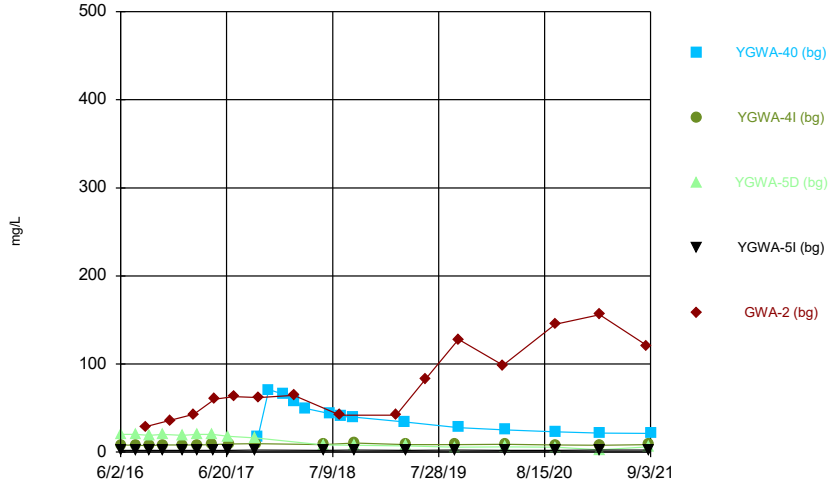
Time Series



Constituent: Sulfate Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

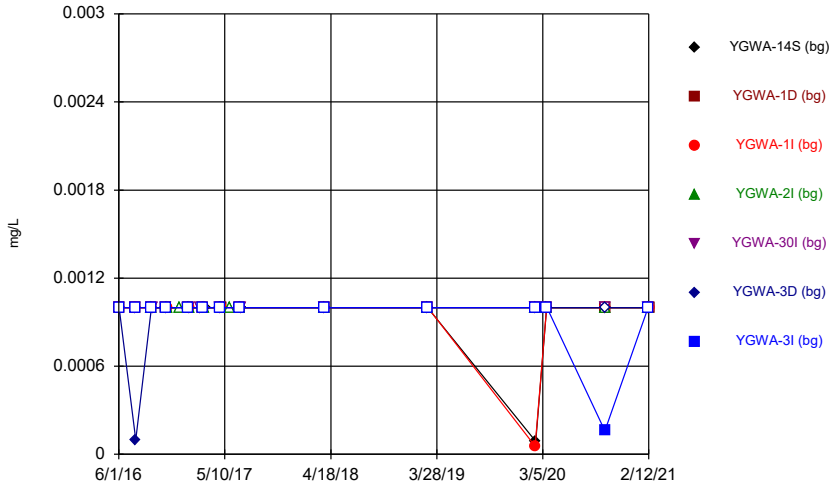
Time Series



Constituent: Sulfate Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

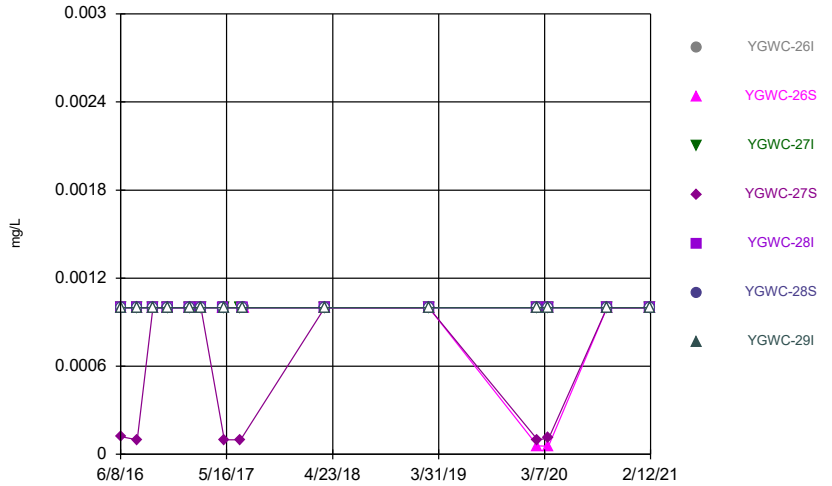
Time Series



Constituent: Thallium Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

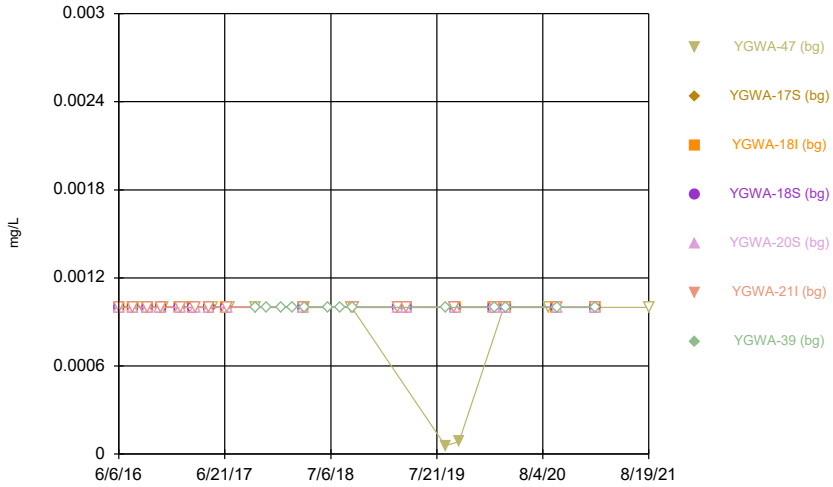
Time Series



Constituent: Thallium Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

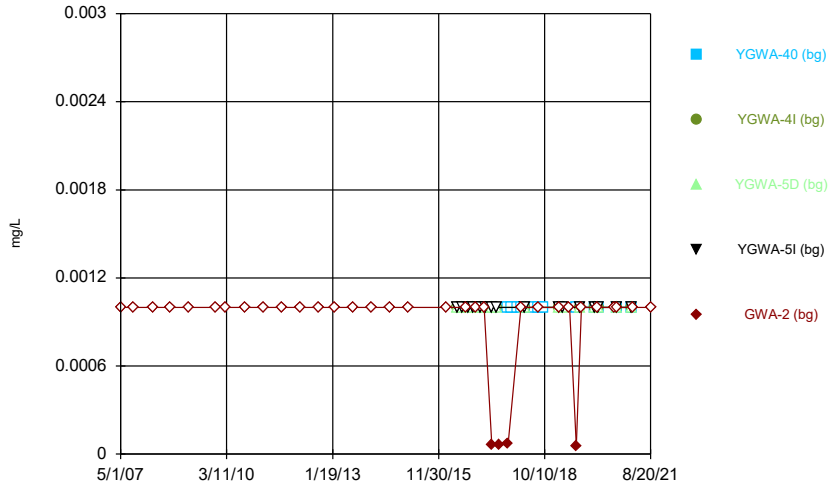
Time Series



Constituent: Thallium Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

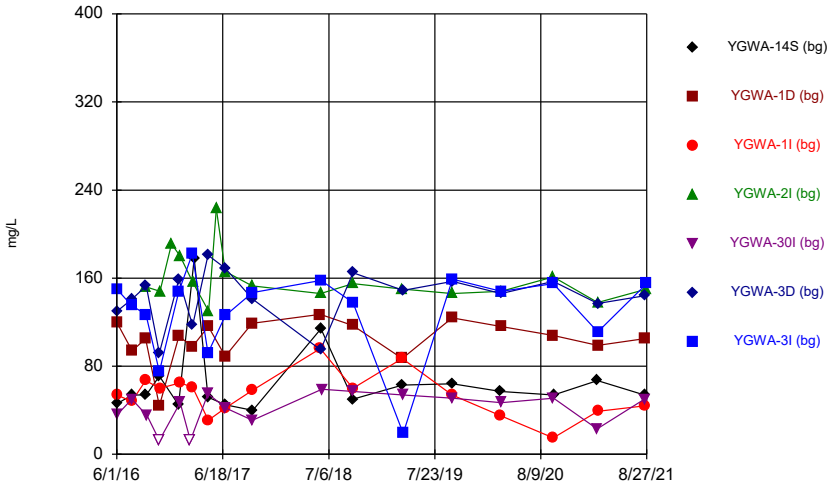
Time Series



Constituent: Thallium Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

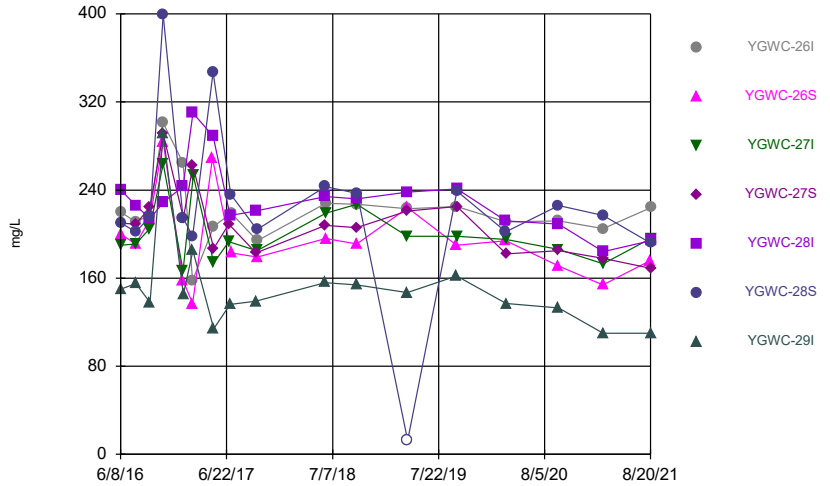
Time Series



Constituent: Total Dissolved Solids Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

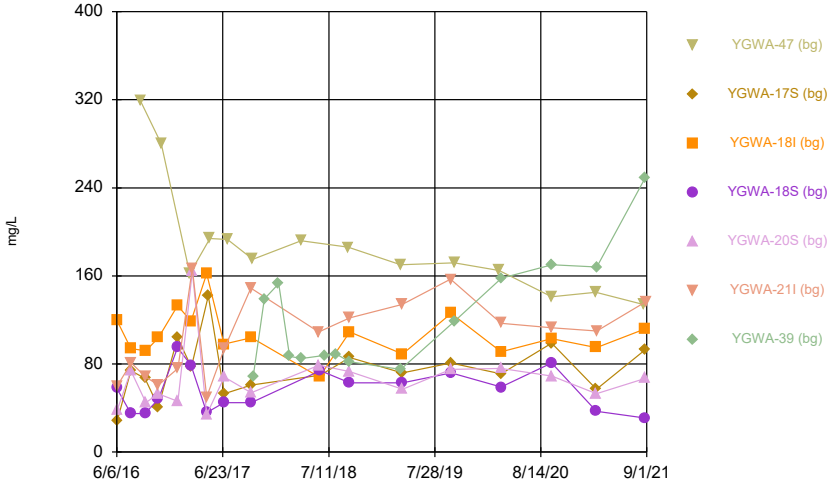
Time Series



Constituent: Total Dissolved Solids Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

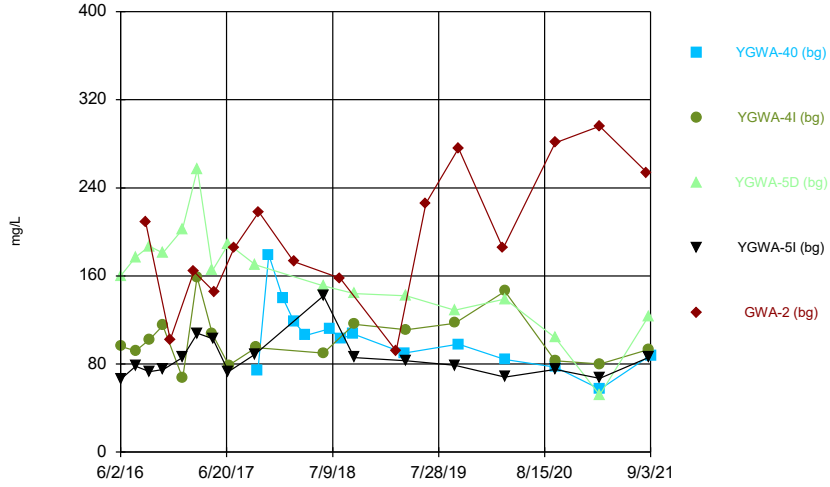
Time Series



Constituent: Total Dissolved Solids Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Time Series



Constituent: Total Dissolved Solids Analysis Run 10/30/2021 2:10 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/30/2021 2:12 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

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/30/2021 2:12 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

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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	

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/30/2021 2:12 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

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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				

Time Series

Constituent: Barium (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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)

Time Series

Constituent: Barium (mg/L) Analysis Run 10/30/2021 2:12 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

Time Series

Constituent: Barium (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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	

Time Series

Constituent: Barium (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/30/2021 2:12 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

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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	

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Constituent: Beryllium (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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)				

Time Series

Constituent: Boron (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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

Time Series

Constituent: Boron (mg/L) Analysis Run 10/30/2021 2:12 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			<0.04	<0.04			
6/7/2016		<0.04			<0.04	<0.04	
7/27/2016		0.008 (J)	<0.04	0.0059 (J)	<0.04		
7/28/2016						<0.04	
8/30/2016	0.0166 (J)						
9/16/2016		0.0086 (J)		0.0079 (J)			
9/19/2016			<0.04		<0.04	<0.04	
11/2/2016					<0.04		
11/3/2016		0.0077 (J)	<0.04	0.0082 (J)		<0.04	
11/14/2016	0.0166 (J)						
1/11/2017		0.0092 (J)	<0.04	0.0096 (J)			
1/13/2017					<0.04	<0.04	
2/24/2017	0.0145 (J)						
3/1/2017			<0.04	<0.04			
3/2/2017		0.0095 (J)					
3/6/2017					<0.04	<0.04	
4/26/2017			<0.04	0.0091 (J)	<0.04	<0.04	
5/2/2017		<0.04					
5/8/2017	0.0141 (J)						
6/28/2017			<0.04	0.0079 (J)			
6/29/2017		0.0074 (J)			<0.04	<0.04	
7/11/2017	0.0131 (J)						
10/3/2017						<0.04	
10/4/2017		0.0077 (J)		0.009 (J)	<0.04		
10/5/2017			<0.04				
10/10/2017	0.0124 (J)						
10/11/2017							0.0135 (J)
11/20/2017							0.0251 (J)
1/11/2018							0.0255 (J)
2/20/2018							<0.04
4/2/2018	0.013 (J)						
4/3/2018							0.033 (J)
6/5/2018						0.0092 (J)	
6/6/2018					0.0049 (J)		
6/7/2018			<0.04				
6/11/2018		0.01 (J)		0.0093 (J)			
6/28/2018							0.053
8/7/2018							0.024 (J)
9/19/2018	0.012 (J)						
9/24/2018							0.028 (J)
9/25/2018		0.0096 (J)	0.0046 (J)	0.007 (J)	<0.04	0.0054 (J)	
3/27/2019	0.013 (J)						0.017 (J)
4/2/2019		0.0066 (J)				0.011 (J)	
4/3/2019			<0.04	0.0053 (J)	<0.04		
9/24/2019						0.018 (J)	
9/25/2019		0.0081 (J)			<0.04		
9/26/2019			0.0062 (J)	0.0072 (J)			
10/8/2019	0.012 (J)						
10/9/2019							0.017 (J)
3/17/2020	0.023 (J)						
3/24/2020		0.0092 (J)	0.0054 (J)	0.01 (J)	<0.04	0.016 (J)	
3/25/2020							0.043 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 10/30/2021 2:12 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	

Time Series

Constituent: Boron (mg/L) Analysis Run 10/30/2021 2:12 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: Cadmium (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/30/2021 2:12 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)

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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				

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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	

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/30/2021 2:12 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: Chloride (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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	

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/30/2021 2:12 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: Chromium (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/30/2021 2:12 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

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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	

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/30/2021 2:12 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

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/30/2021 2:12 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)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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)				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/30/2021 2:12 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)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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				

Time Series

Constituent: Lead (mg/L) Analysis Run 10/30/2021 2:12 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

Time Series

Constituent: Lead (mg/L) Analysis Run 10/30/2021 2:12 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

Time Series

Constituent: Lead (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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	

Time Series

Constituent: Lead (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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				

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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)

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/30/2021 2:12 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)

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/30/2021 2:12 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			<0.03	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 10/30/2021 2:12 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)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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				

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/30/2021 2:12 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				

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/30/2021 2:12 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

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/30/2021 2:12 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	

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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)				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/30/2021 2:12 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

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/30/2021 2:12 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			<0.01	<0.01			
6/7/2016		<0.01			<0.01	<0.01	
7/27/2016		<0.01	<0.01	<0.01	<0.01		
7/28/2016						<0.01	
8/30/2016	<0.01						
9/16/2016		<0.01		<0.01			
9/19/2016			<0.01		<0.01	<0.01	
11/2/2016					<0.01		
11/3/2016		<0.01	<0.01	<0.01		<0.01	
11/14/2016	<0.01						
1/11/2017		<0.01	<0.01	<0.01			
1/13/2017					<0.01	<0.01	
2/24/2017	<0.01						
3/1/2017			<0.01	<0.01			
3/2/2017		<0.01					
3/6/2017					<0.01	0.0007 (J)	
4/26/2017			<0.01	<0.01	<0.01	0.0008 (J)	
5/2/2017		<0.01					
5/8/2017	<0.01						
6/28/2017			<0.01	<0.01			
6/29/2017		<0.01			<0.01	<0.01	
7/11/2017	<0.01						
10/10/2017	<0.01						
10/11/2017							0.0094 (J)
11/20/2017							0.0081 (J)
1/11/2018							0.0074 (J)
2/20/2018							<0.01
3/28/2018		<0.01	<0.01	<0.01			
3/29/2018					<0.01	<0.01	
4/2/2018	<0.01						
4/3/2018							0.006 (J)
6/28/2018							0.005 (J)
8/7/2018							0.0045 (J)
9/19/2018	<0.01						
9/24/2018							0.0035 (J)
3/5/2019		<0.01		<0.01	<0.01	<0.01	
3/6/2019			<0.01				
8/20/2019	<0.01						
8/21/2019							0.0021 (J)
10/8/2019	<0.01						
10/9/2019							0.0018 (J)
2/11/2020		<0.01	<0.01	<0.01			
2/12/2020					<0.01	<0.01	0.0025 (J)
3/17/2020	<0.01						
3/24/2020		<0.01	<0.01	<0.01	<0.01	<0.01	
3/25/2020							0.002 (J)
8/27/2020	<0.01						
9/22/2020	<0.01						
9/23/2020		<0.01	<0.01	<0.01			
9/24/2020					<0.01	<0.01	0.0016 (J)
2/9/2021			<0.01	<0.01	<0.01	<0.01	
2/10/2021							0.0013 (J)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/30/2021 2:12 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	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/30/2021 2:12 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				

Time Series

Constituent: pH (S.U.) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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

Time Series

Constituent: pH (S.U.) Analysis Run 10/30/2021 2:12 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

Time Series

Constituent: pH (S.U.) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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	

Time Series

Constituent: pH (S.U.) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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				

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/30/2021 2:12 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

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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	

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/30/2021 2:12 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: Thallium (mg/L) Analysis Run 10/30/2021 2:12 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				

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/30/2021 2:12 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

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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						

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/30/2021 2:12 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 10/30/2021 2:12 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	

Time Series

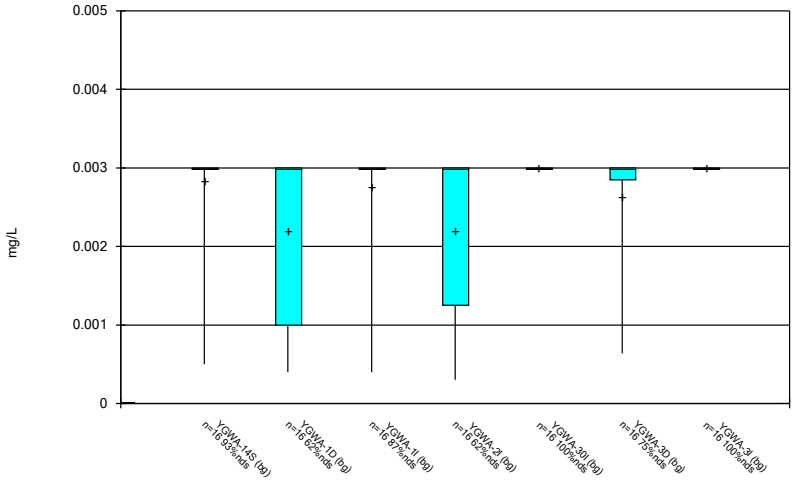
Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/30/2021 2:12 PM

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				

FIGURE B.

Box & Whiskers Plot

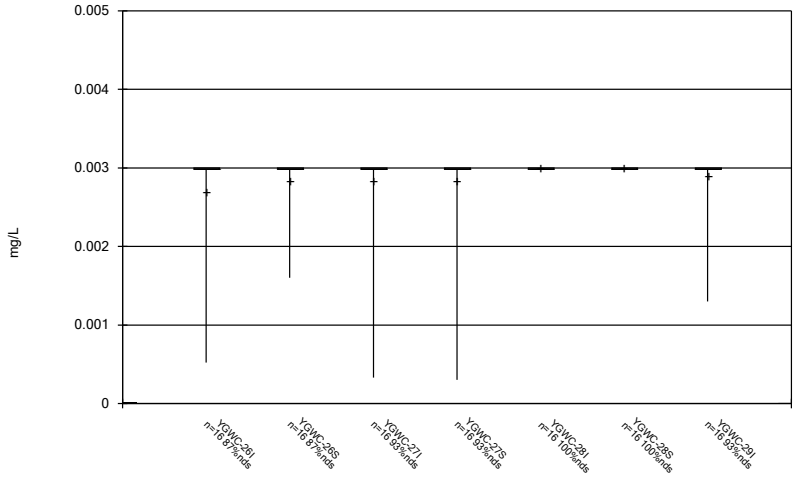


Constituent: Antimony Analysis Run 10/30/2021 2:21 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot

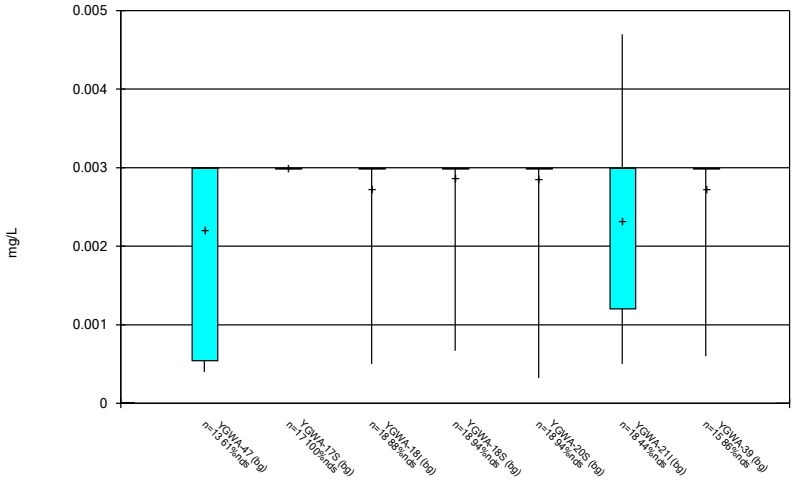


Constituent: Antimony Analysis Run 10/30/2021 2:21 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot

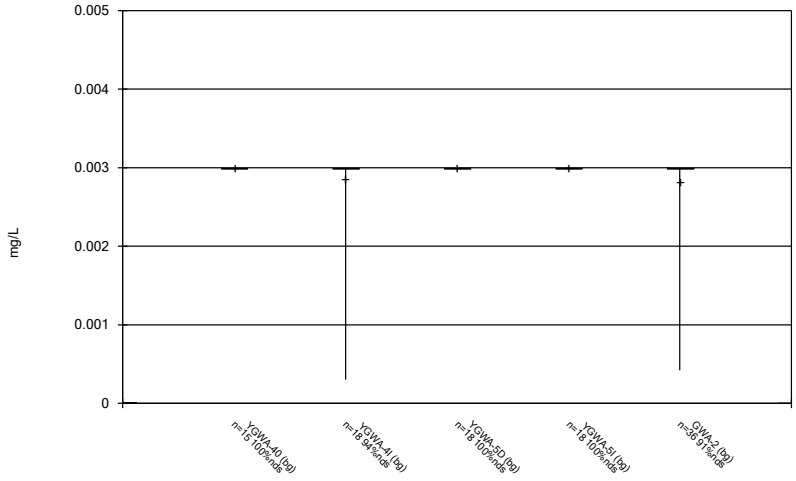


Constituent: Antimony Analysis Run 10/30/2021 2:21 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

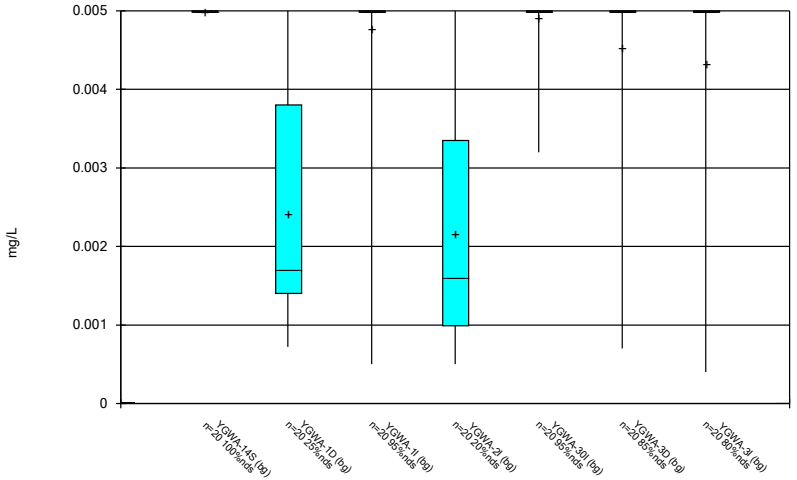
Box & Whiskers Plot



Constituent: Antimony Analysis Run 10/30/2021 2:21 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot

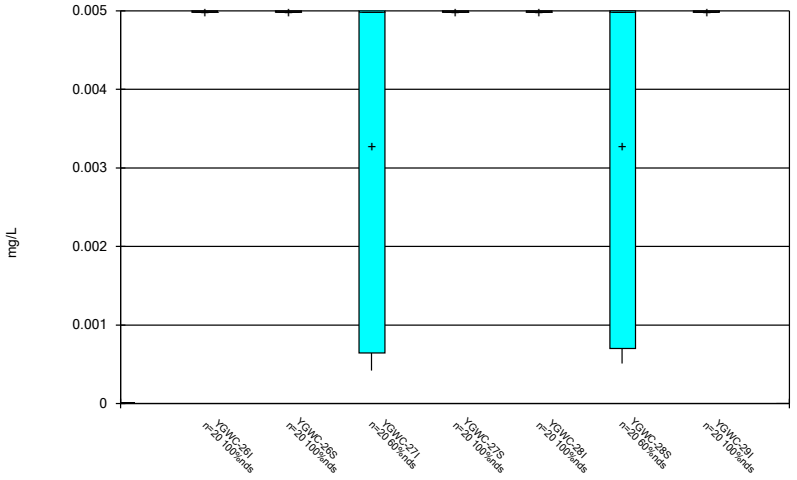


Constituent: Arsenic Analysis Run 10/30/2021 2:21 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot

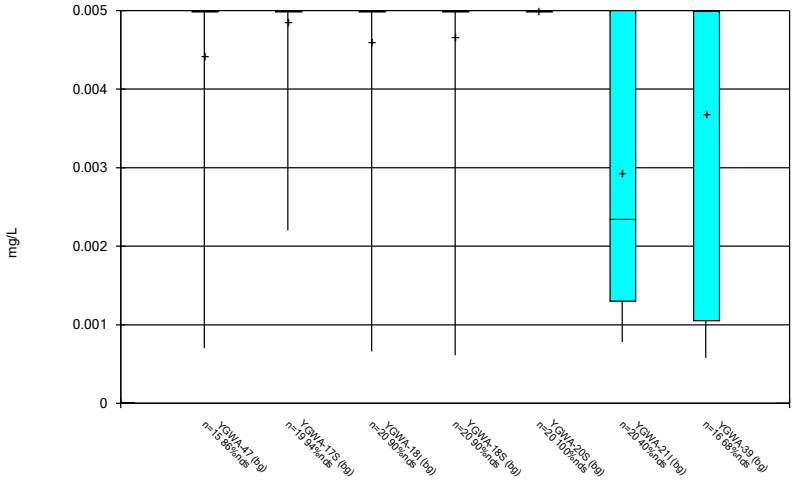


Constituent: Arsenic Analysis Run 10/30/2021 2:21 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot

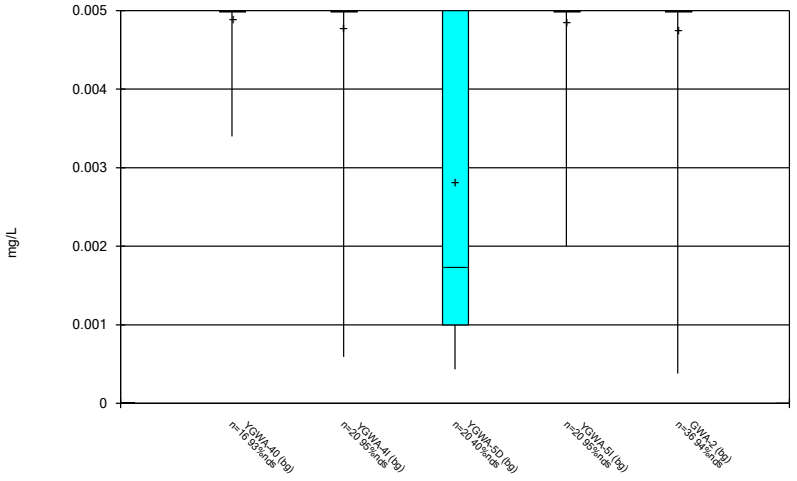


Constituent: Arsenic Analysis Run 10/30/2021 2:21 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

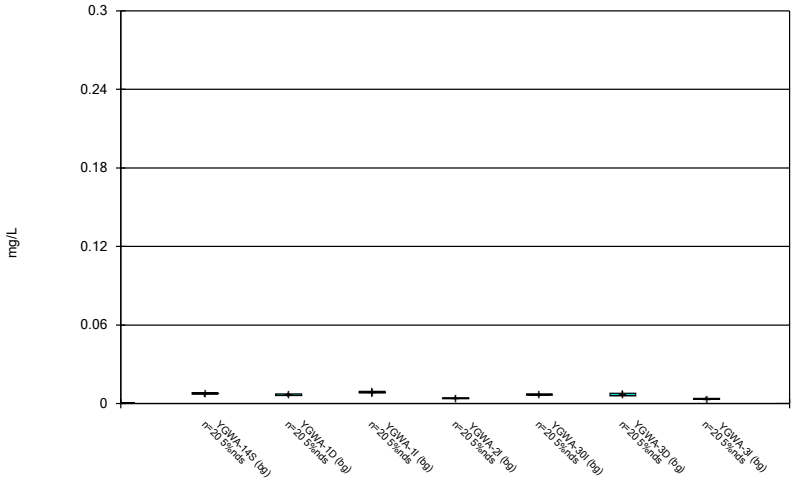
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 10/30/2021 2:21 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



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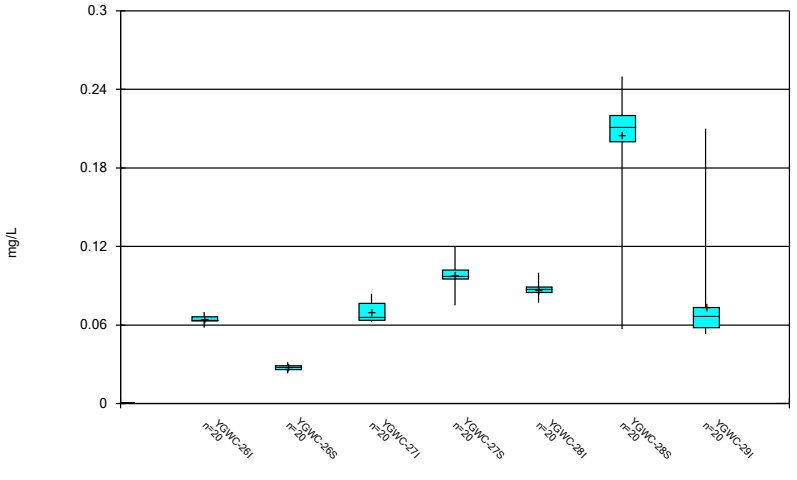
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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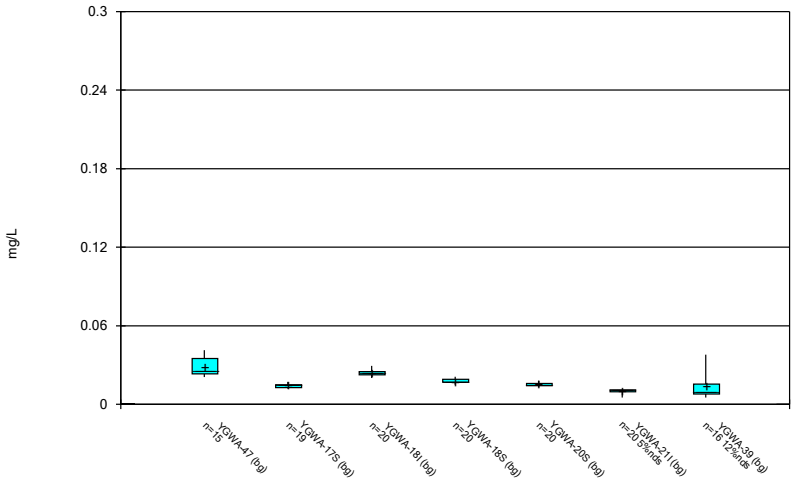
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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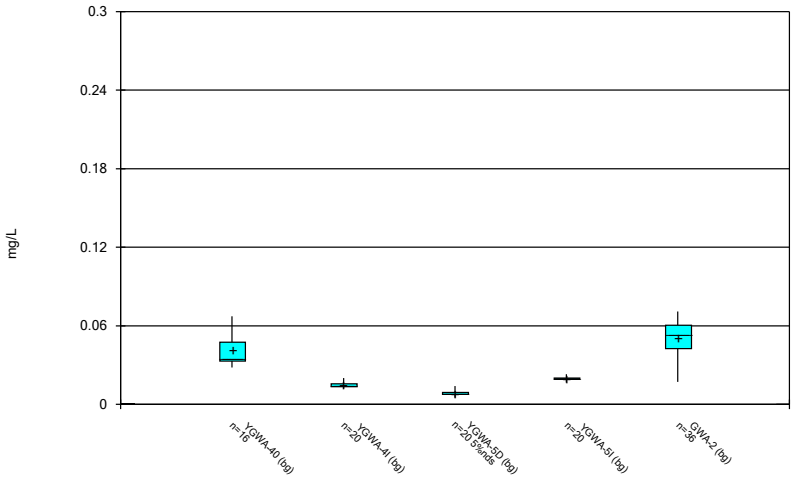
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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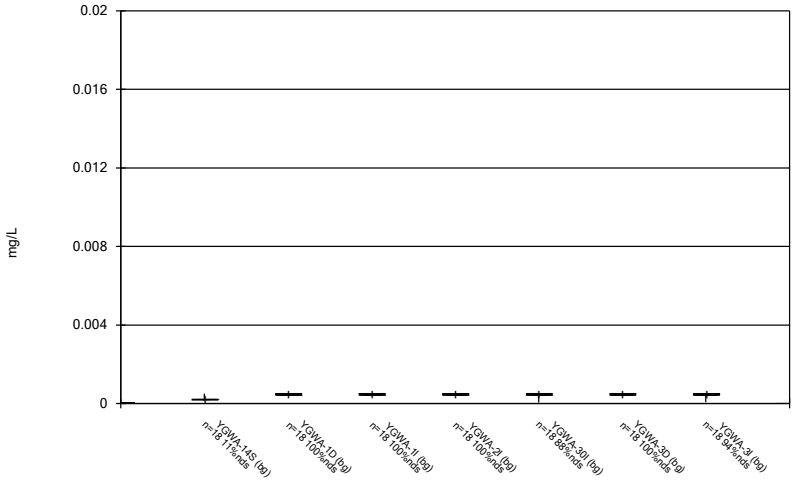
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



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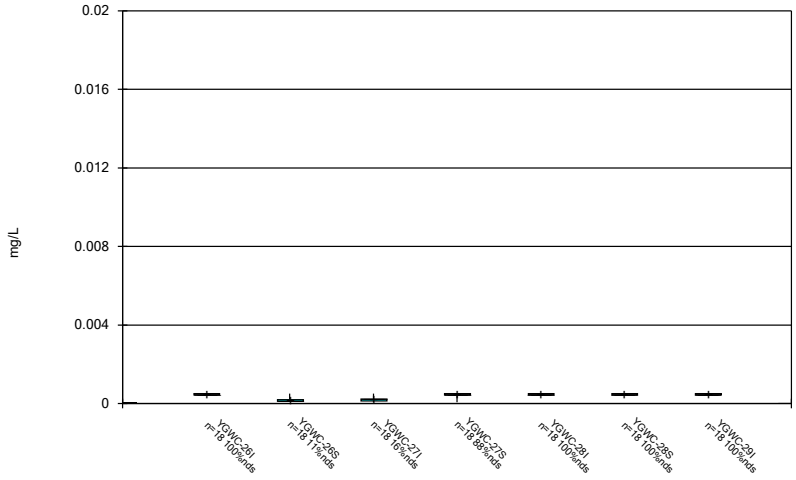
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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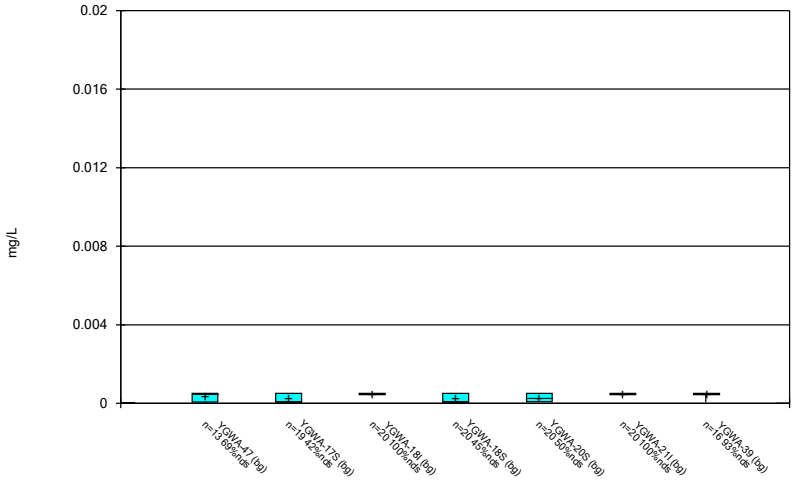
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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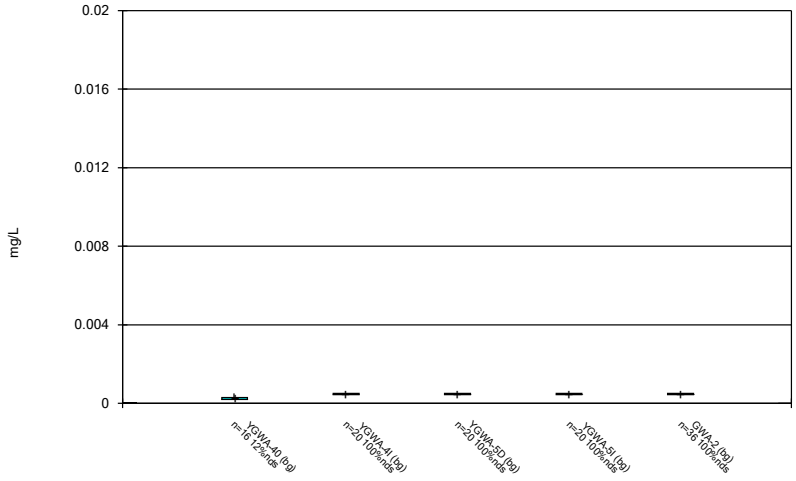
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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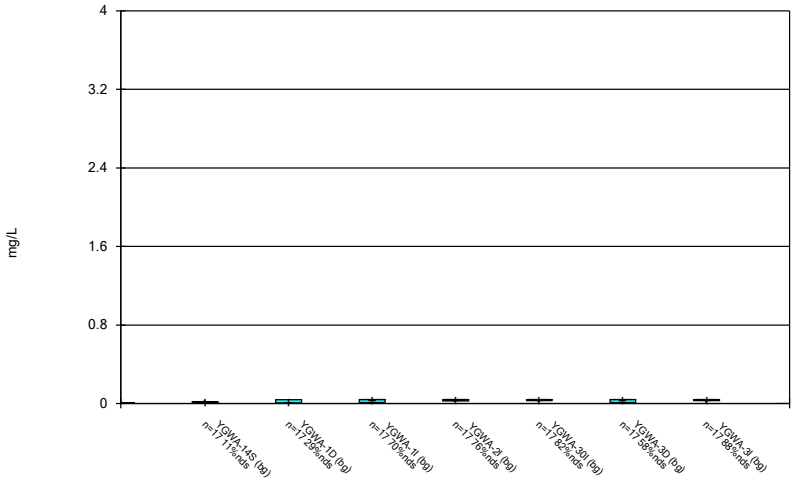
Box & Whiskers Plot



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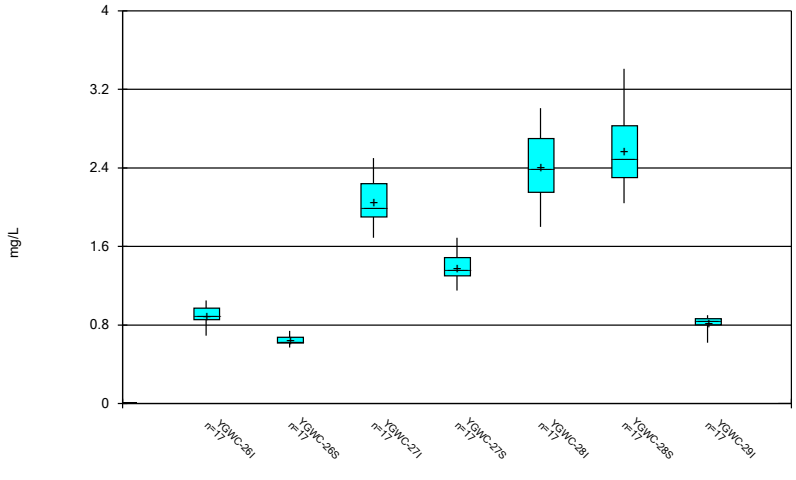
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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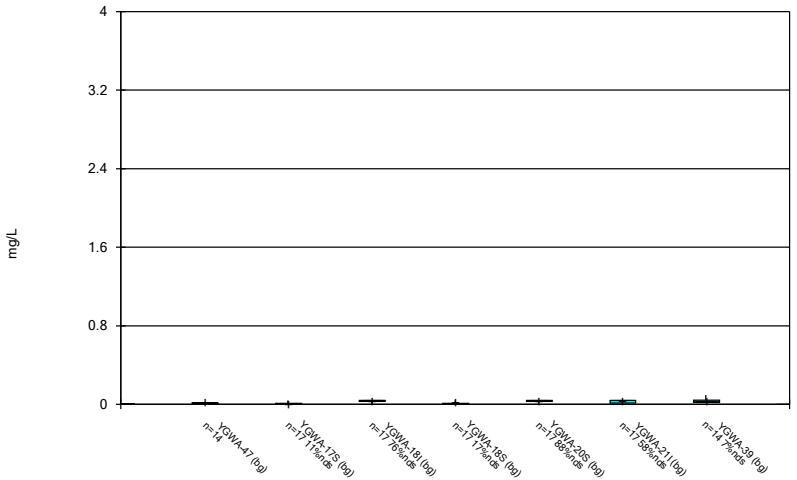
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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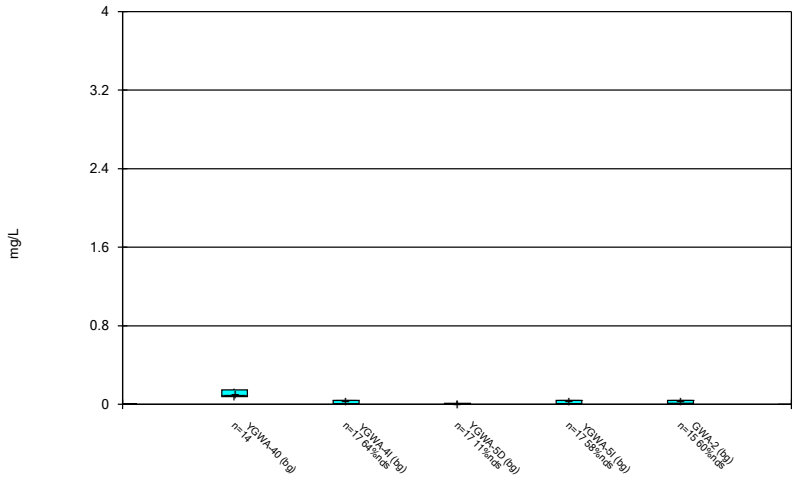
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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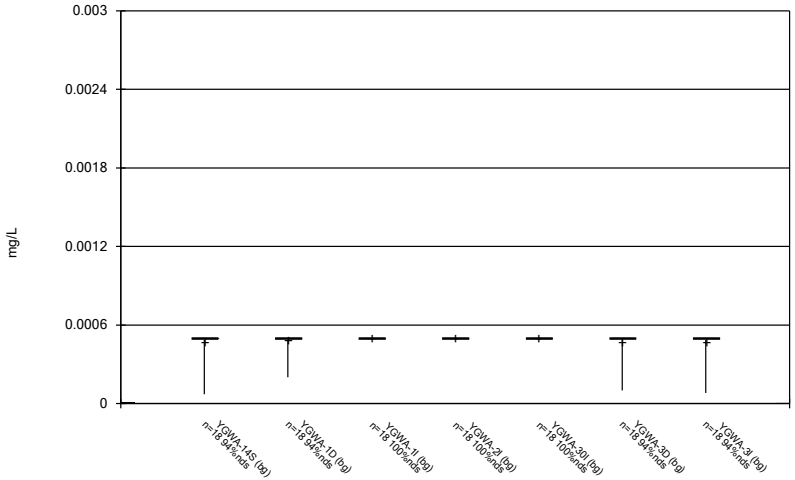
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



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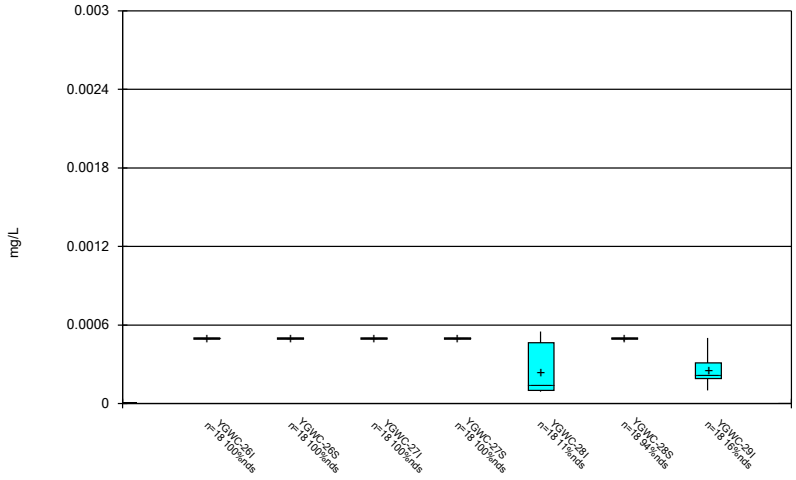
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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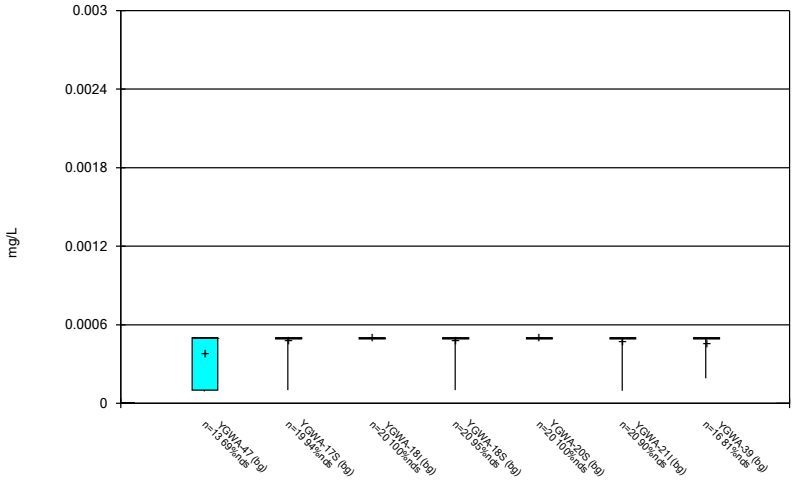
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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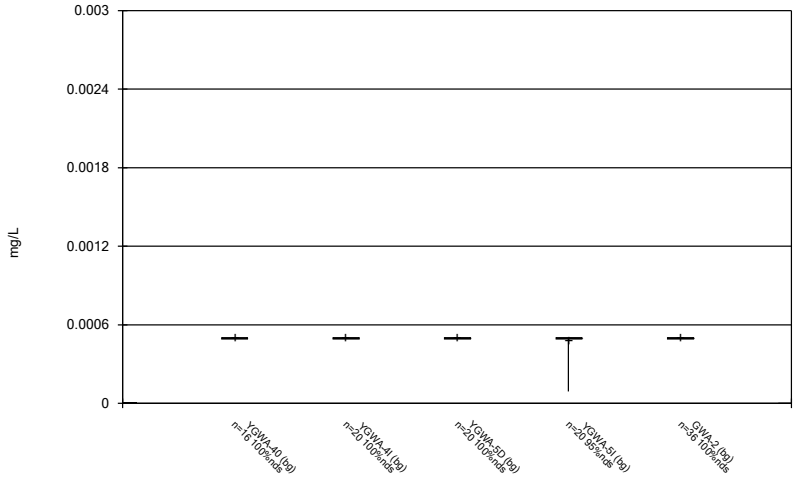
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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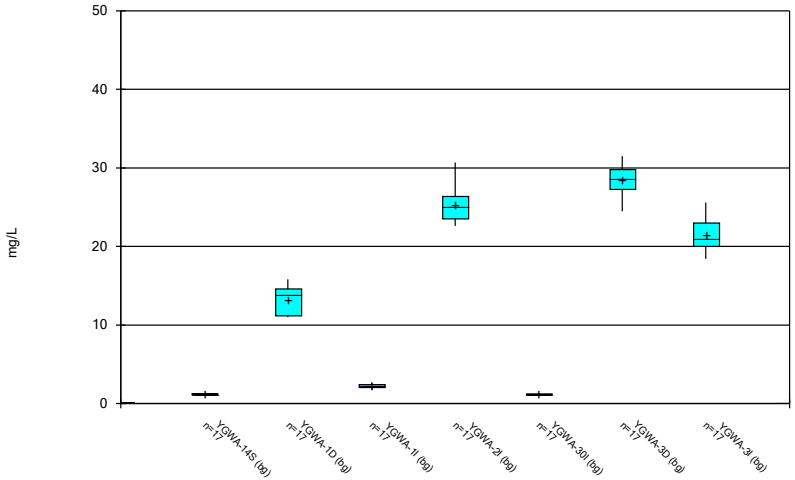
Box & Whiskers Plot



Constituent: Calcium Analysis Run 10/30/2021 2:21 PM

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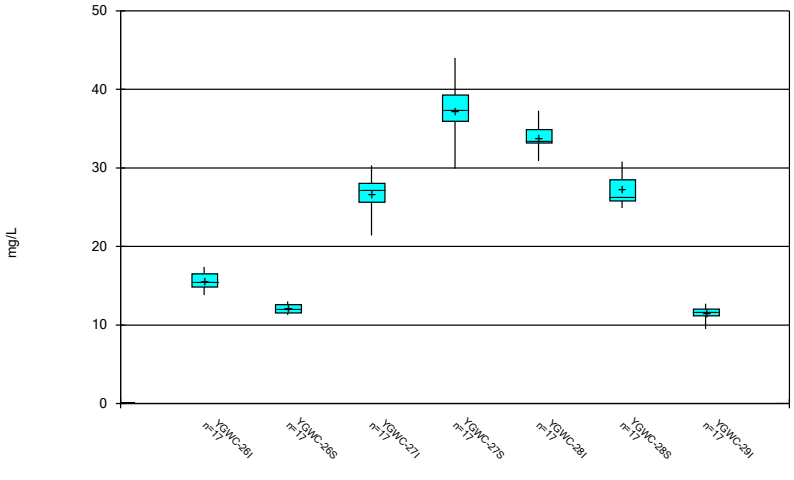
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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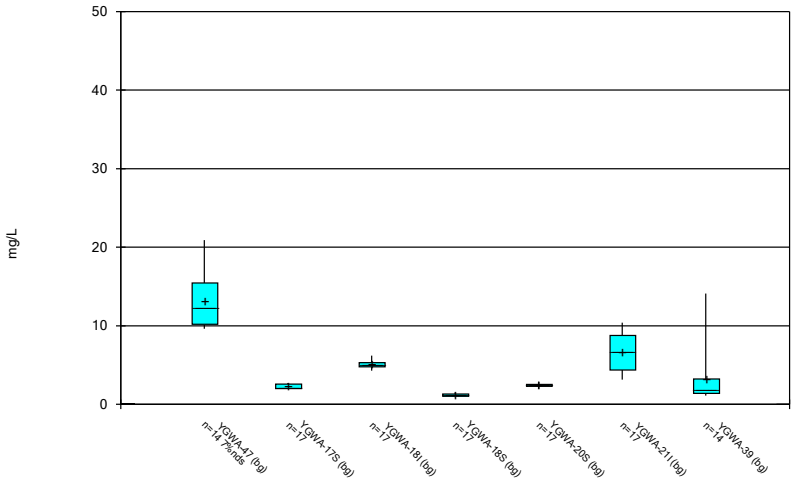
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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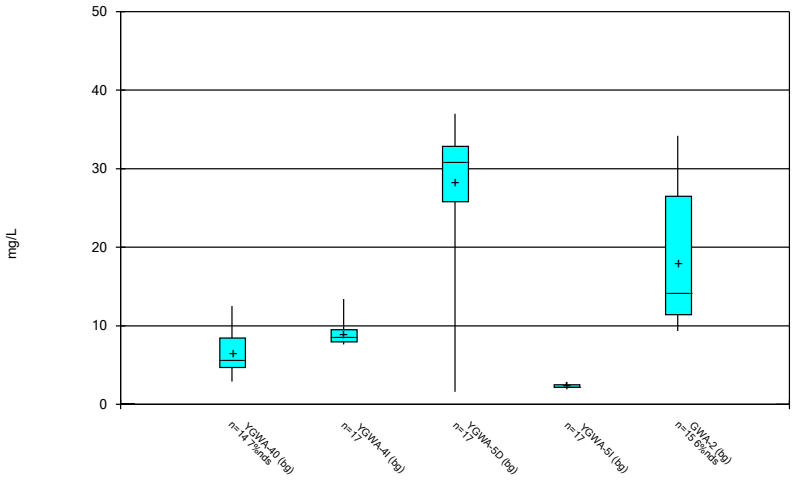
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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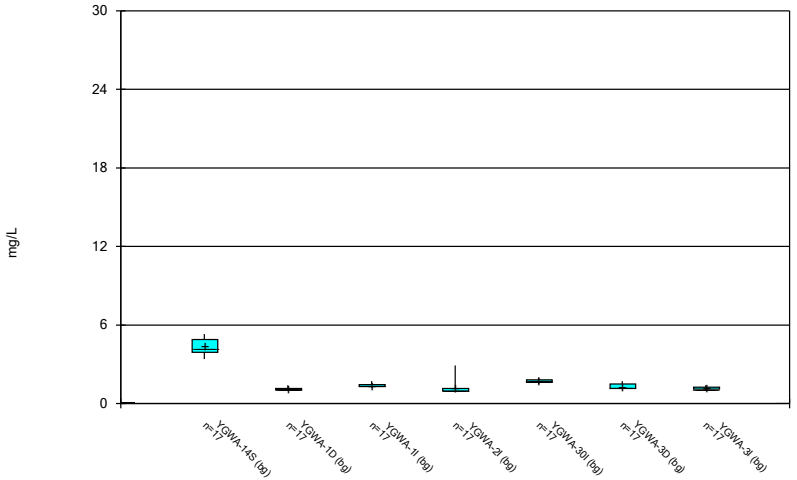
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



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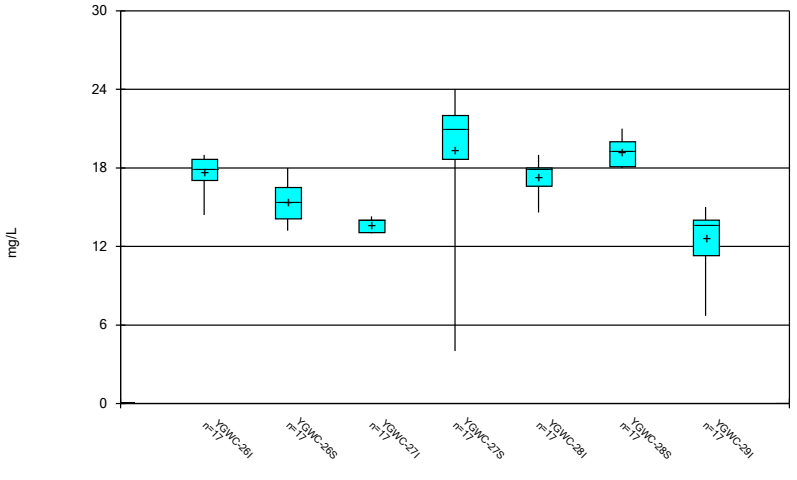
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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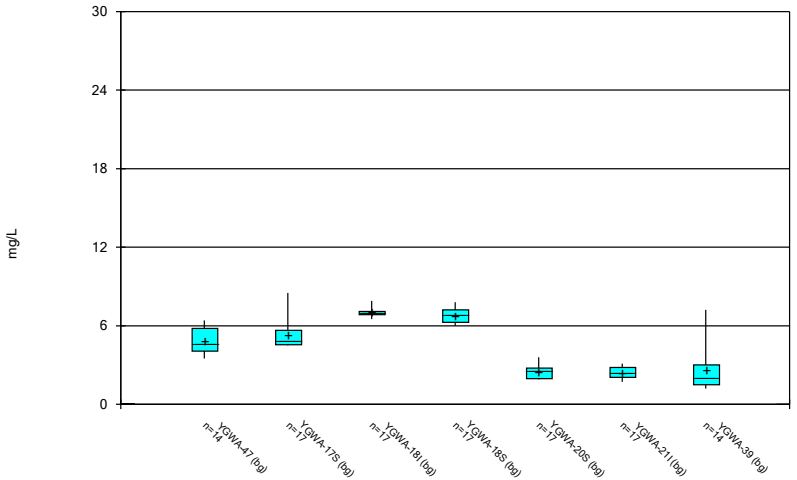
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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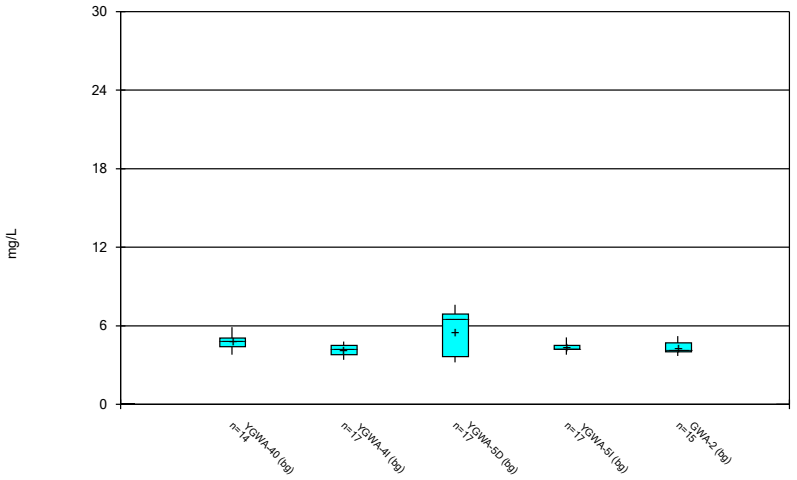
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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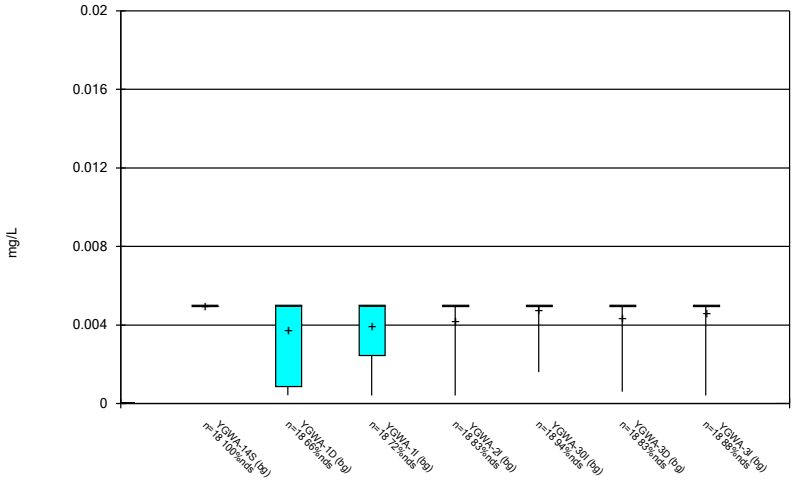
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



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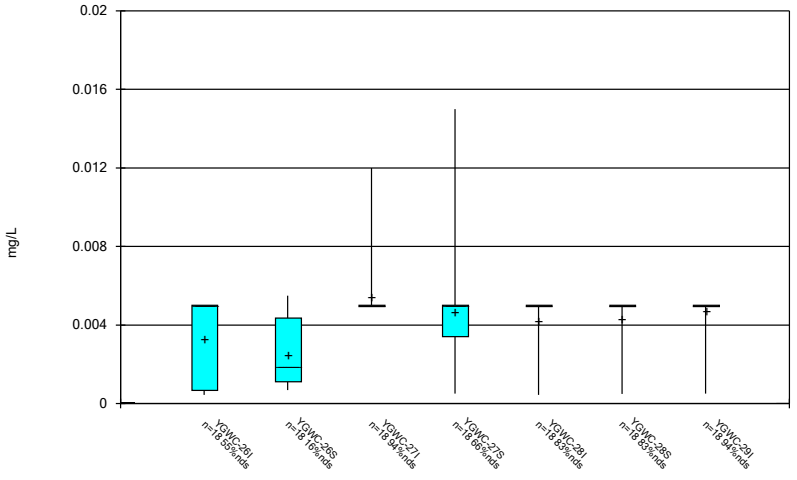
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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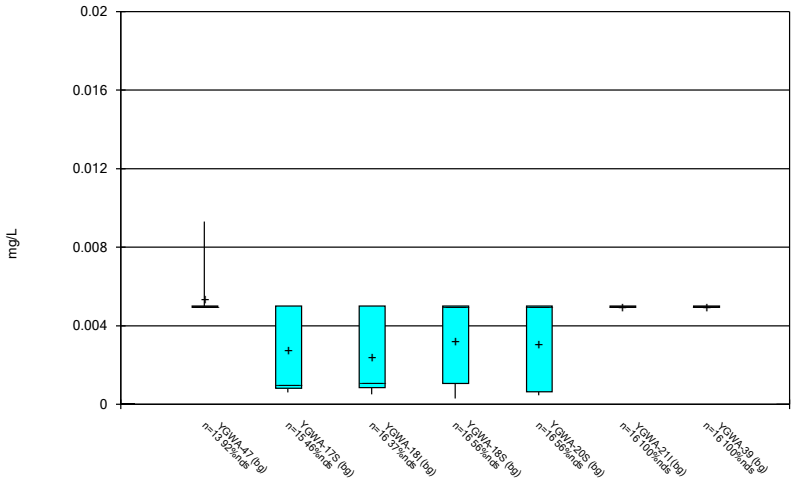
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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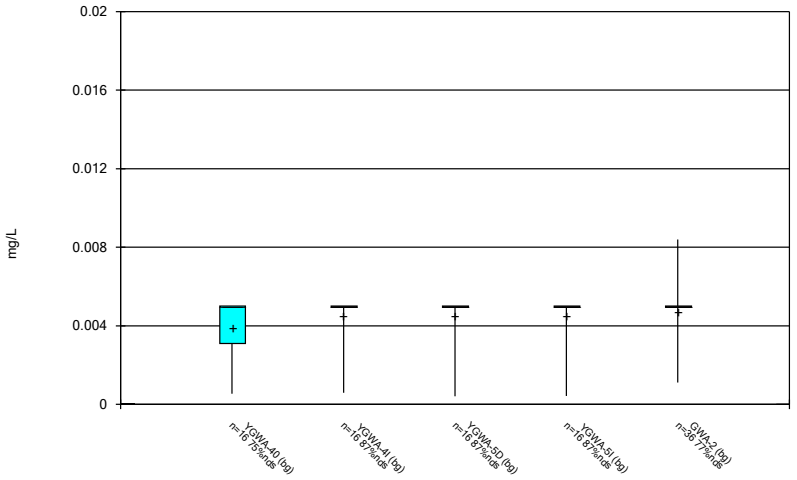
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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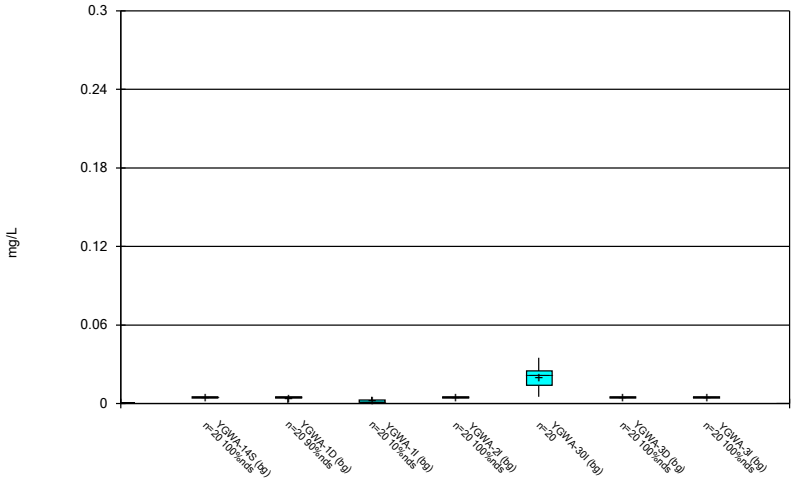
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot

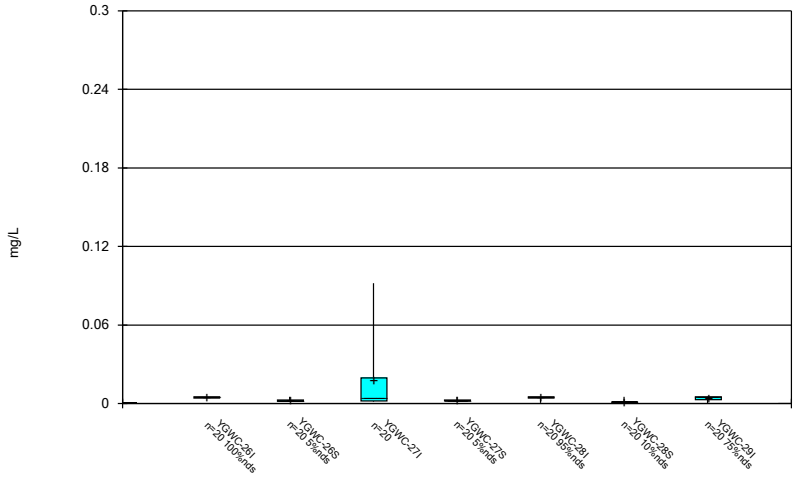


Constituent: Cobalt Analysis Run 10/30/2021 2:21 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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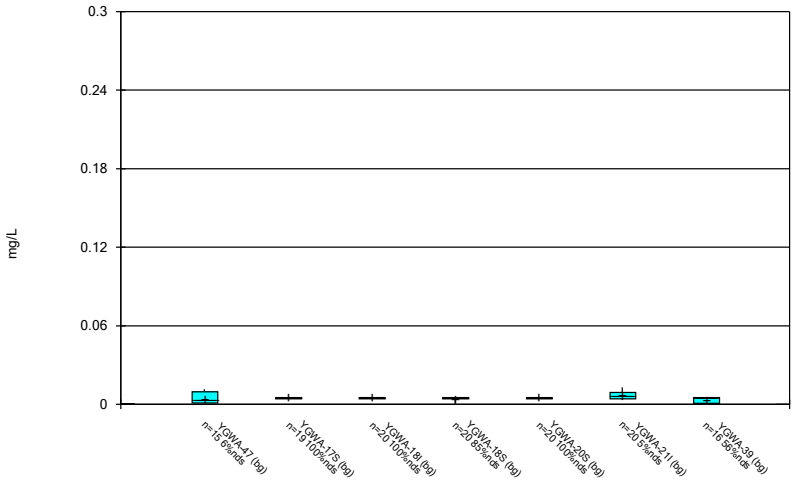
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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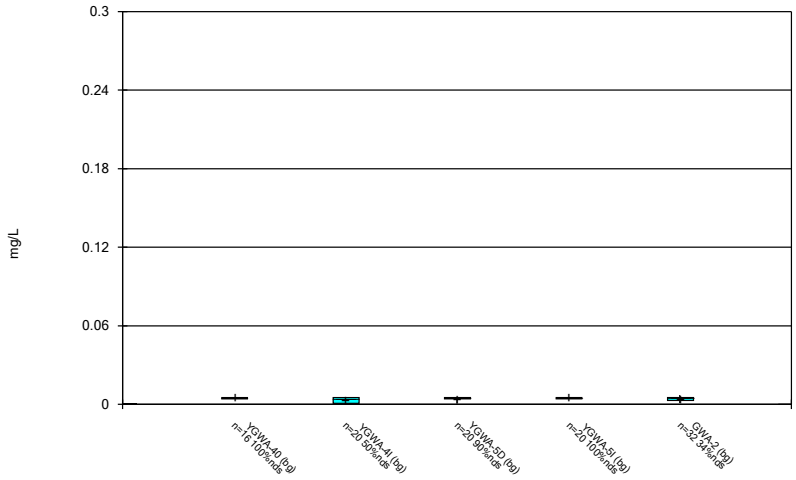
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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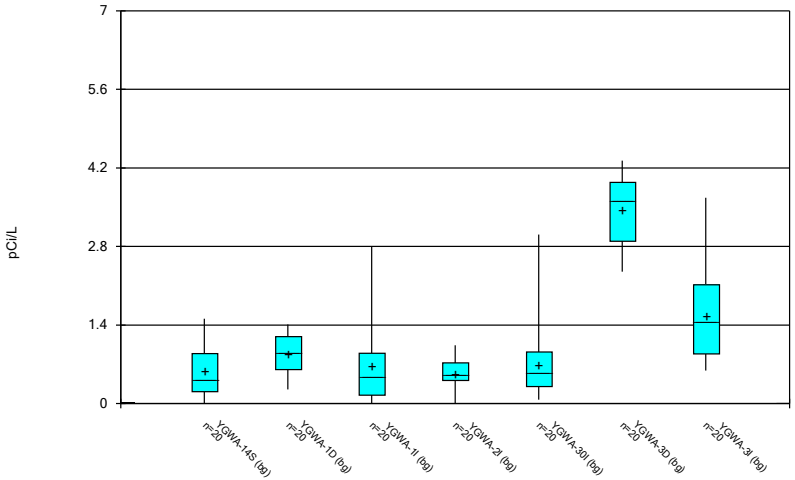
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

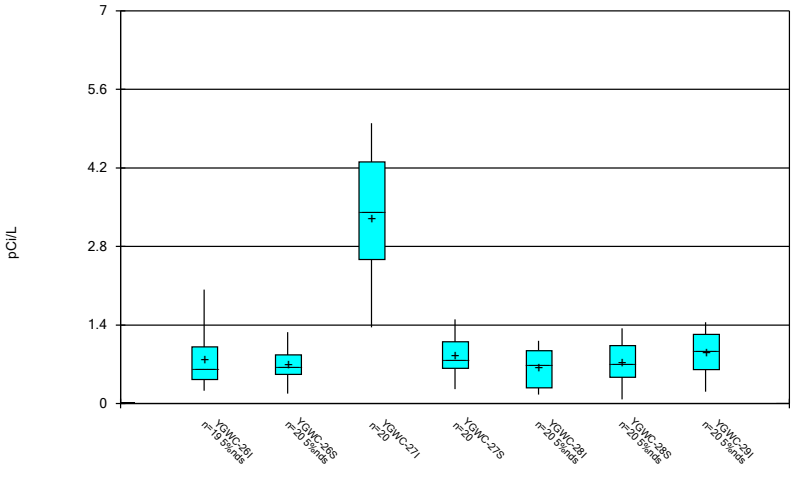
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 10/30/2021 2:21 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 10/30/2021 2:21 PM
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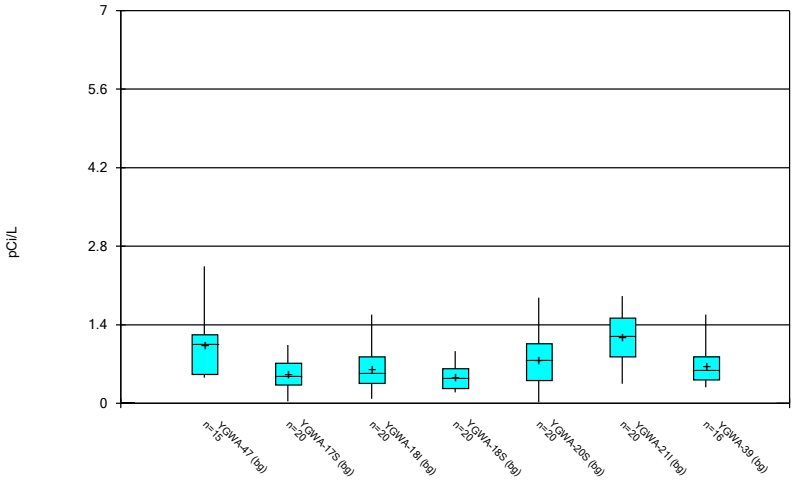
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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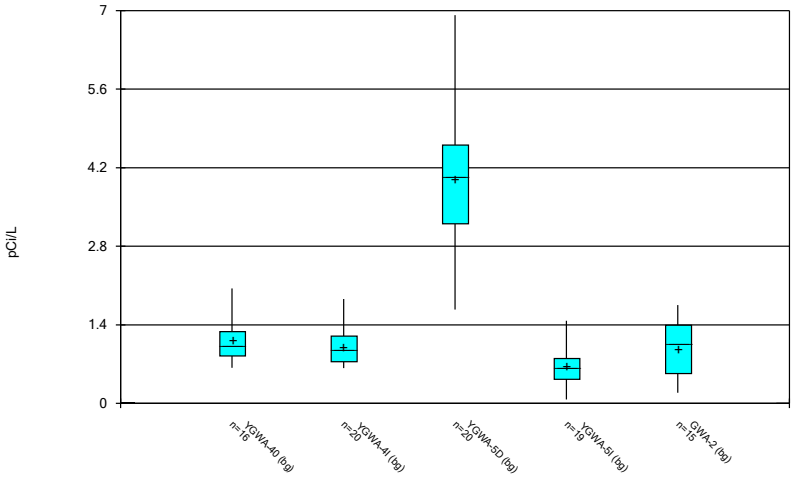
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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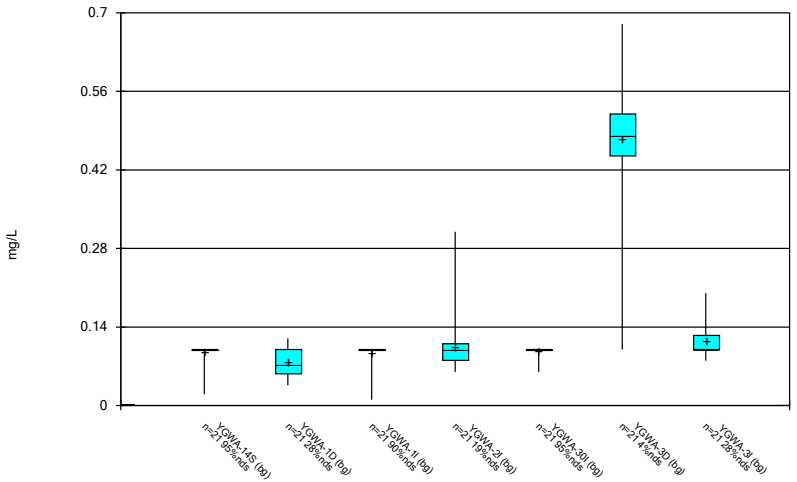
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot

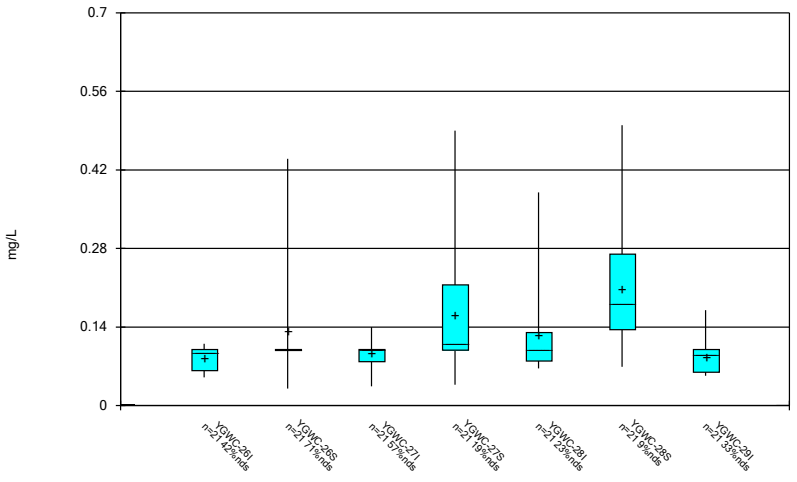


Constituent: Fluoride Analysis Run 10/30/2021 2:21 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot

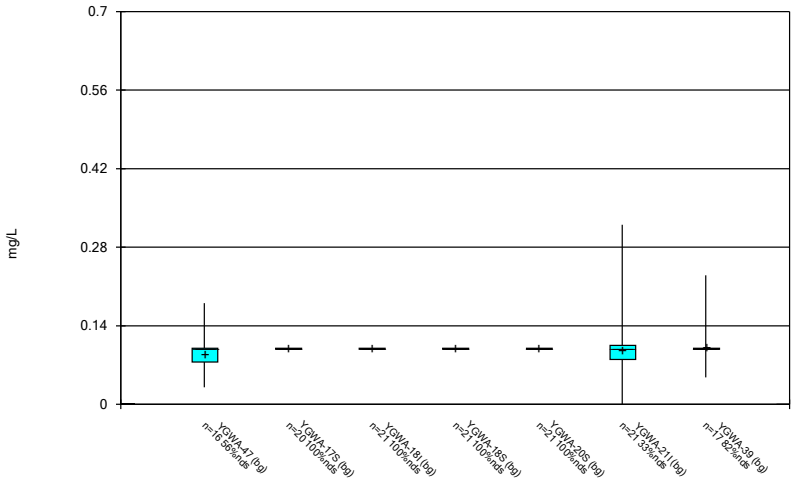


Constituent: Fluoride Analysis Run 10/30/2021 2:21 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot

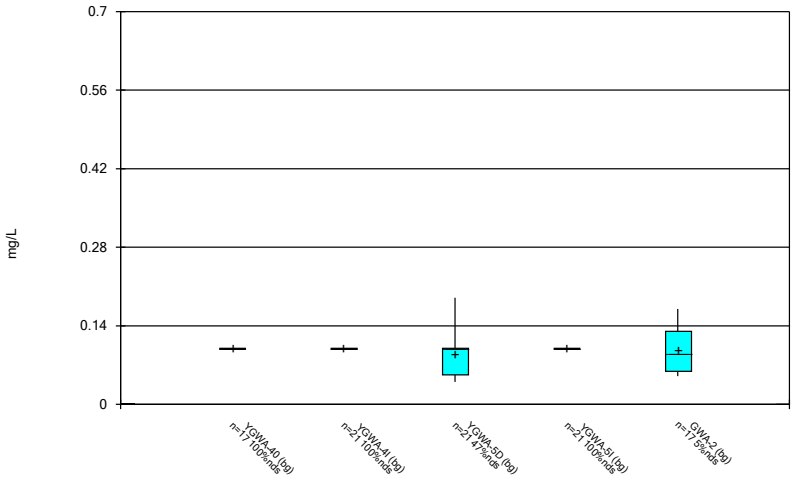


Constituent: Fluoride Analysis Run 10/30/2021 2:22 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

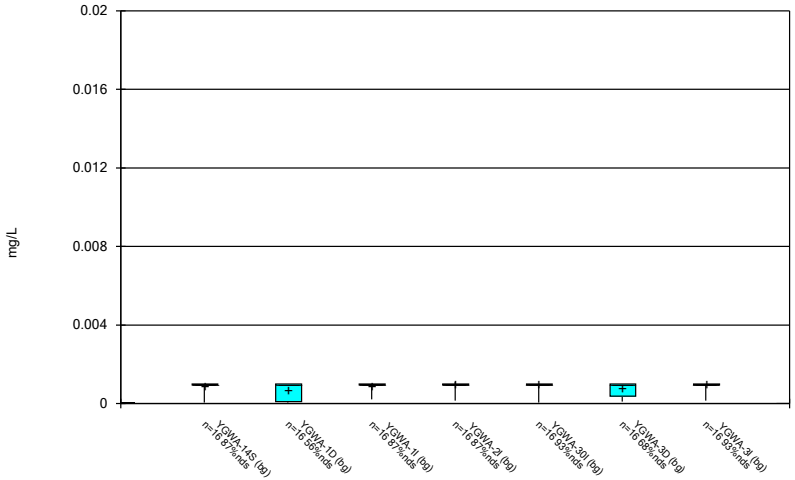
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 10/30/2021 2:22 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot

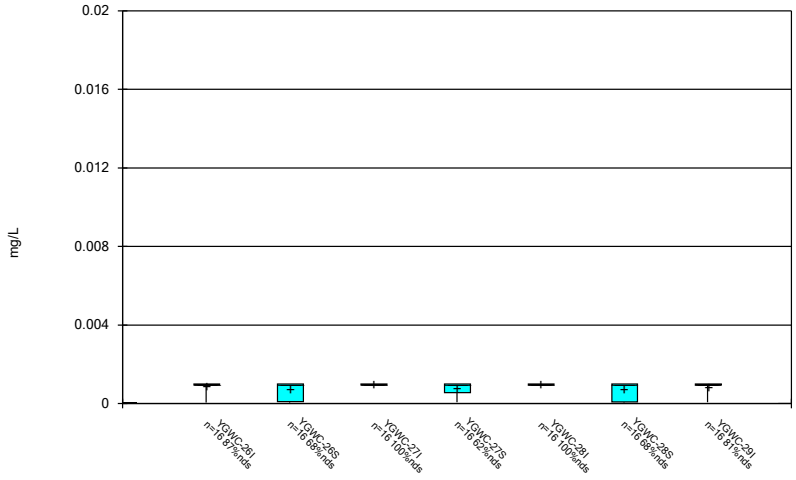


Constituent: Lead Analysis Run 10/30/2021 2:22 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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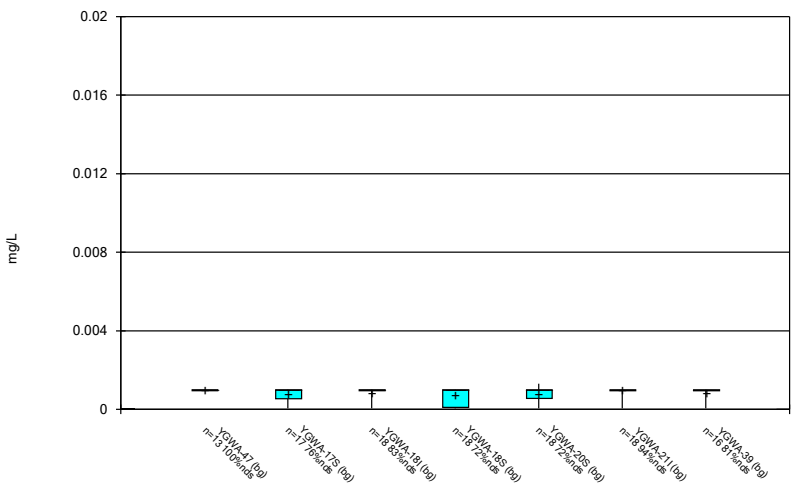
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

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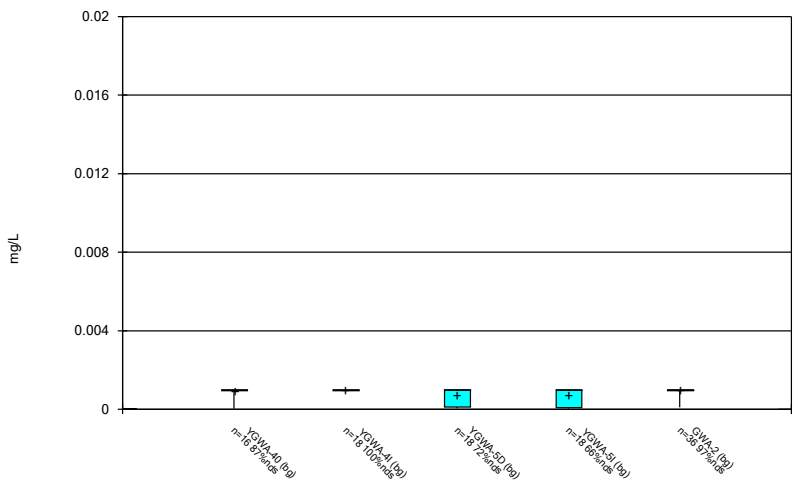

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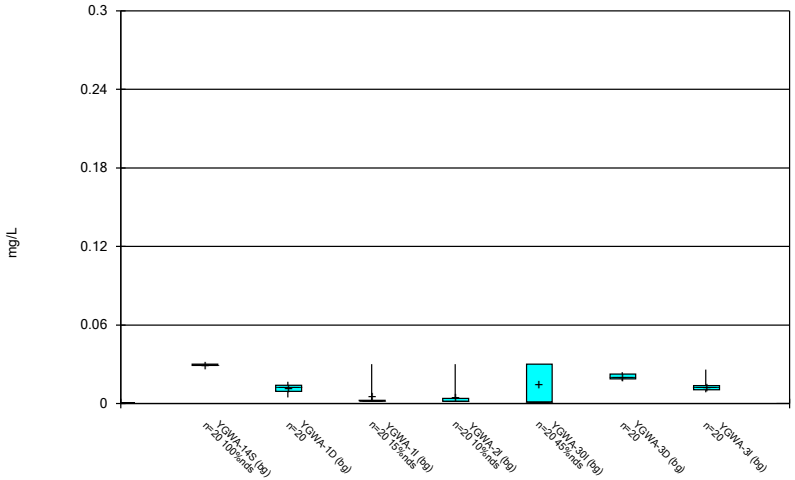

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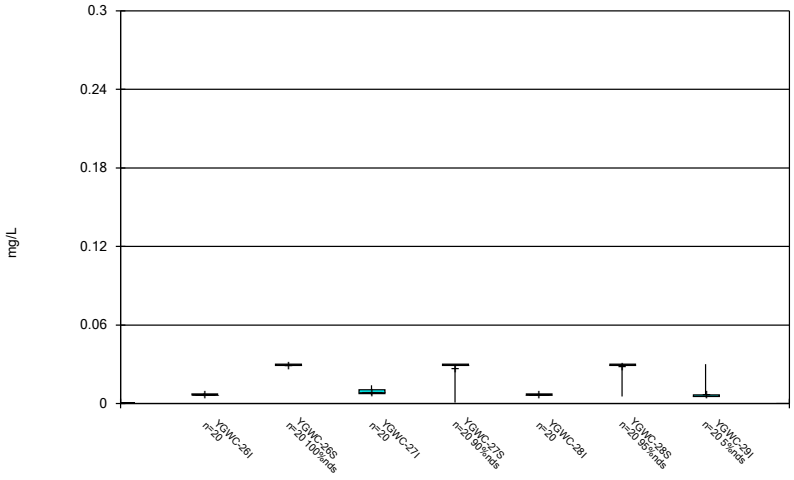
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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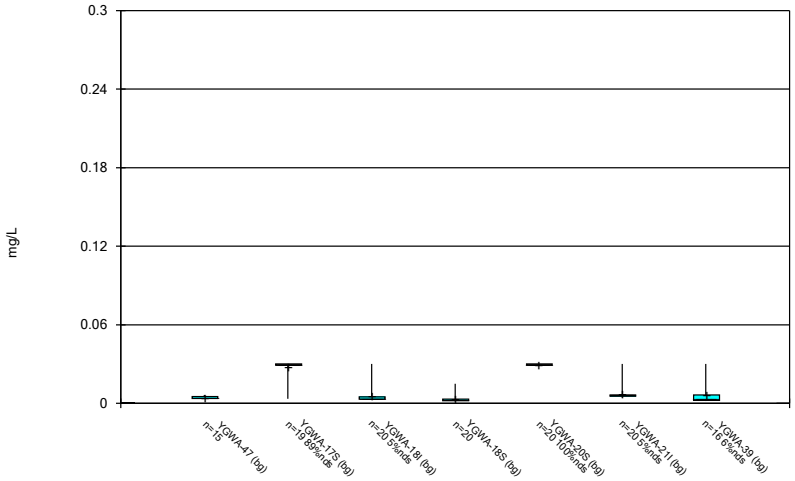
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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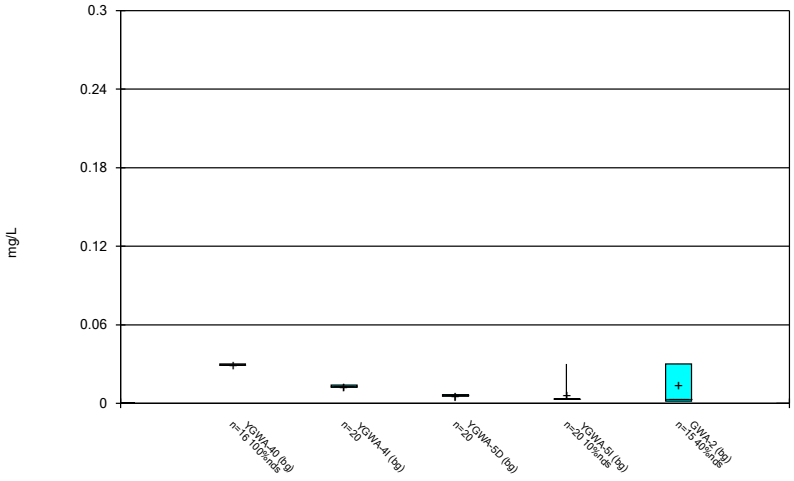
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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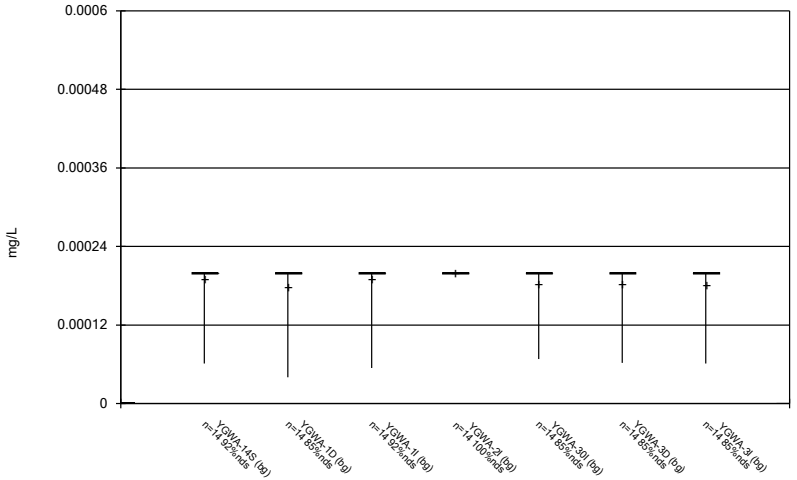

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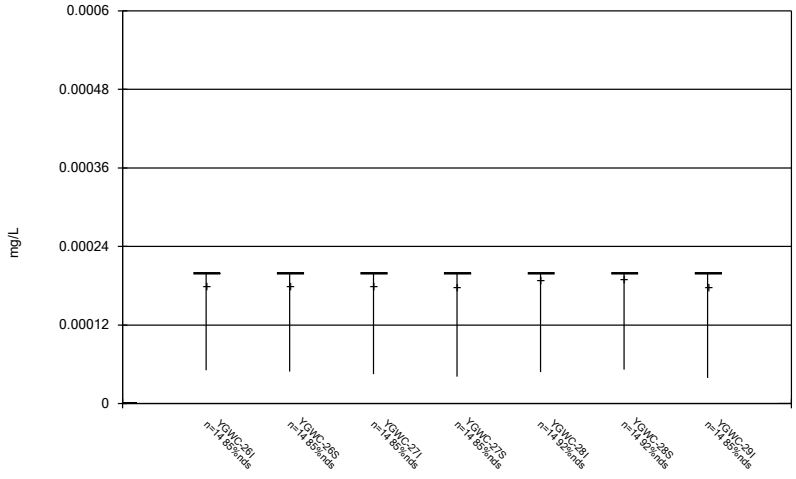
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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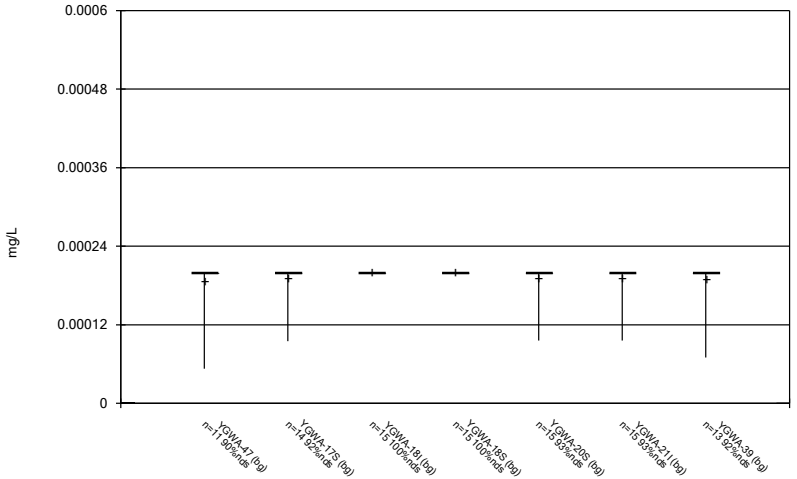
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

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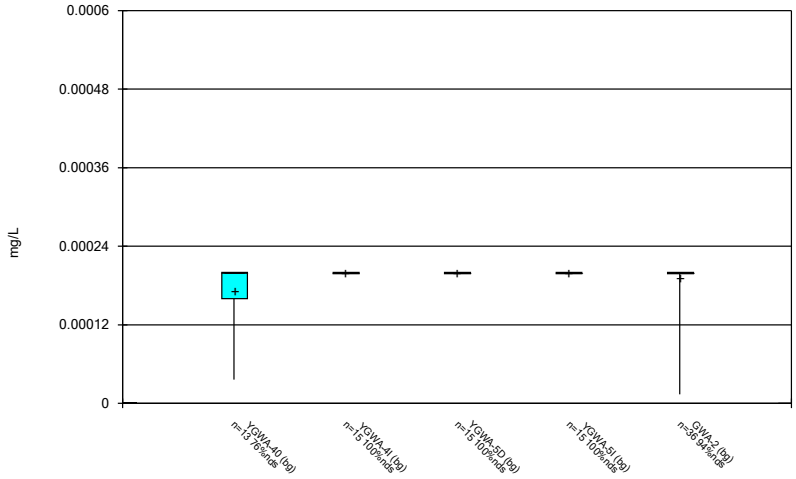

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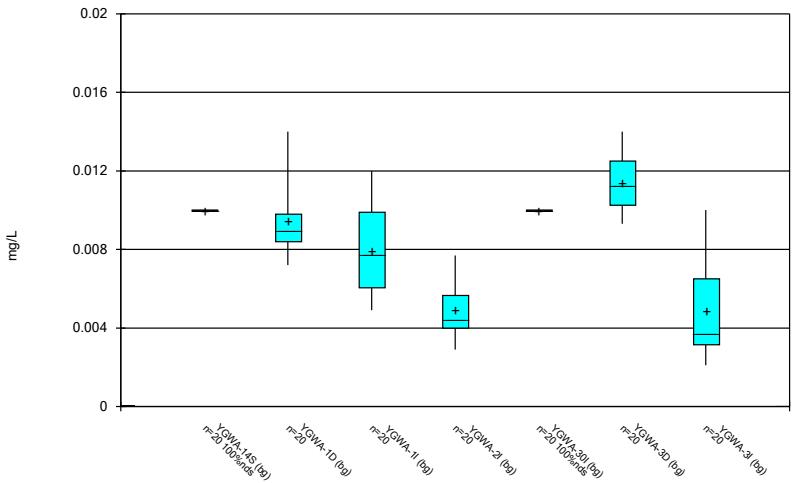
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot

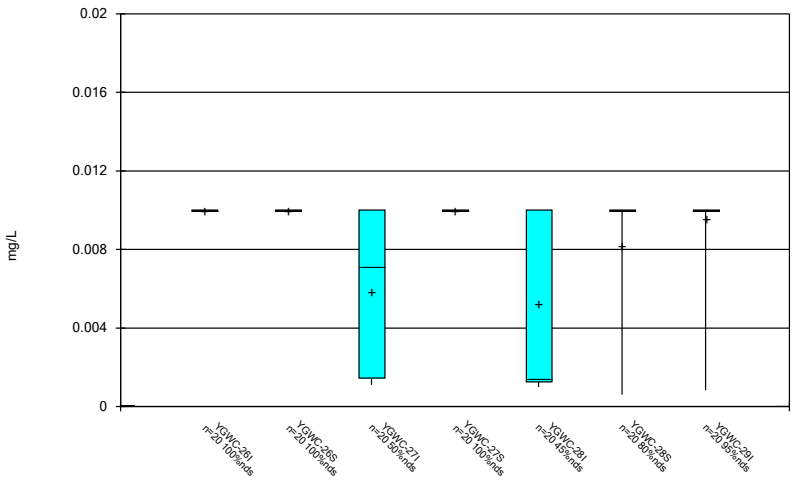


Constituent: Molybdenum Analysis Run 10/30/2021 2:22 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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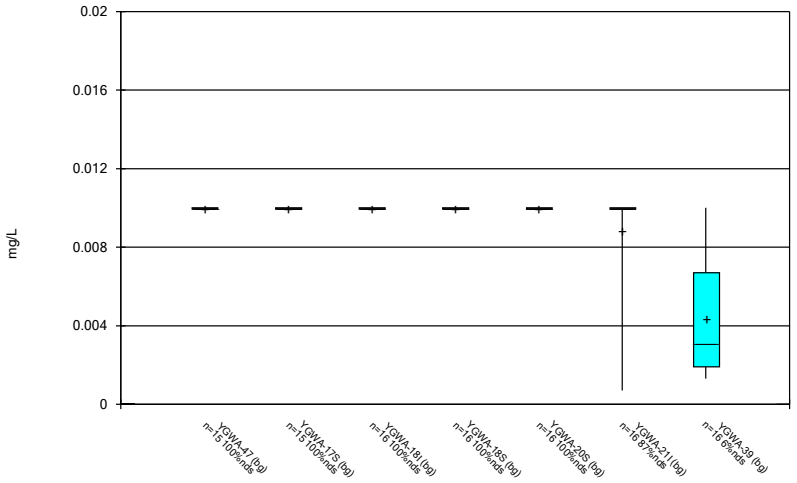
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

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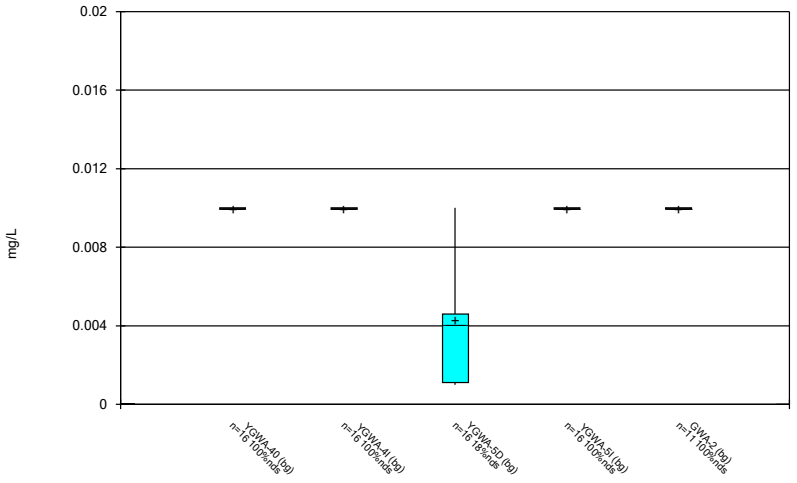

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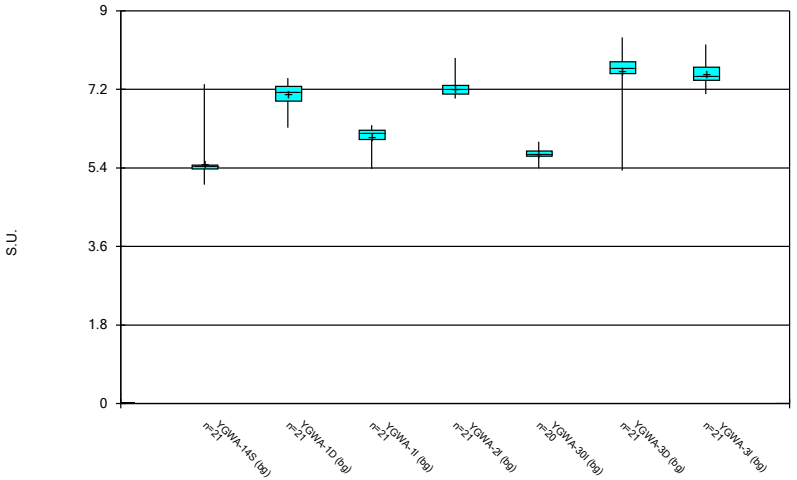
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



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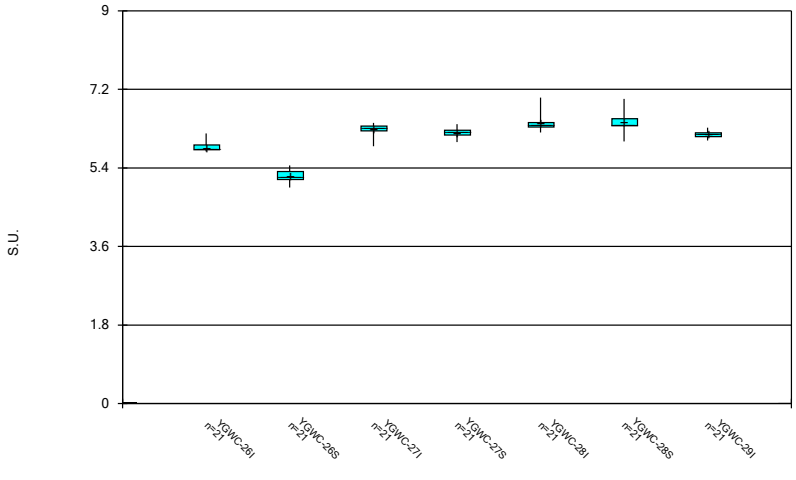
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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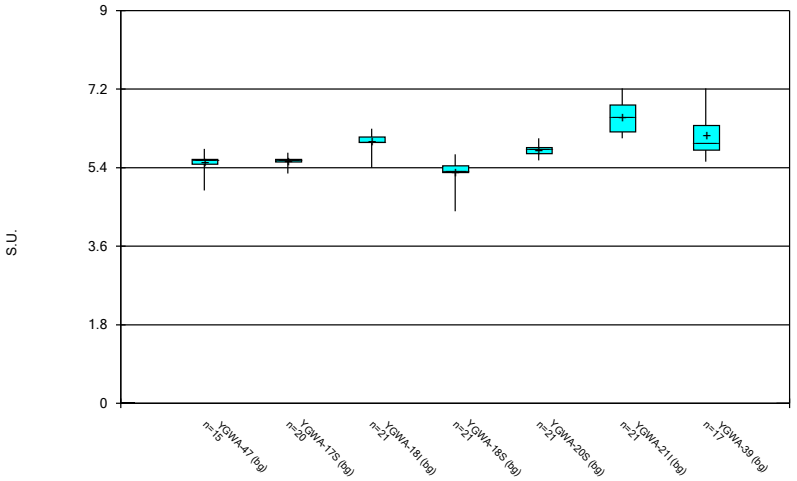
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

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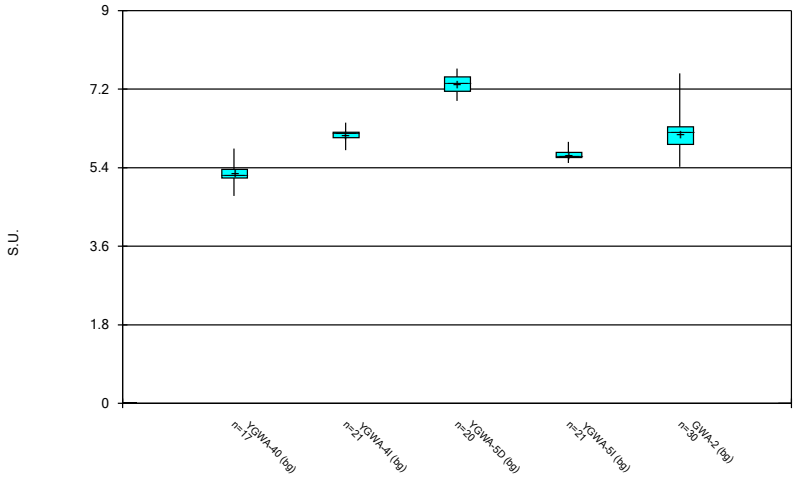

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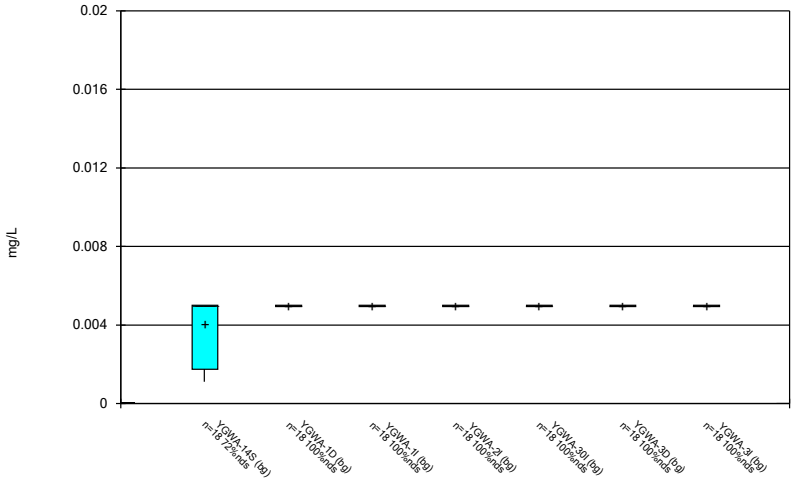
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



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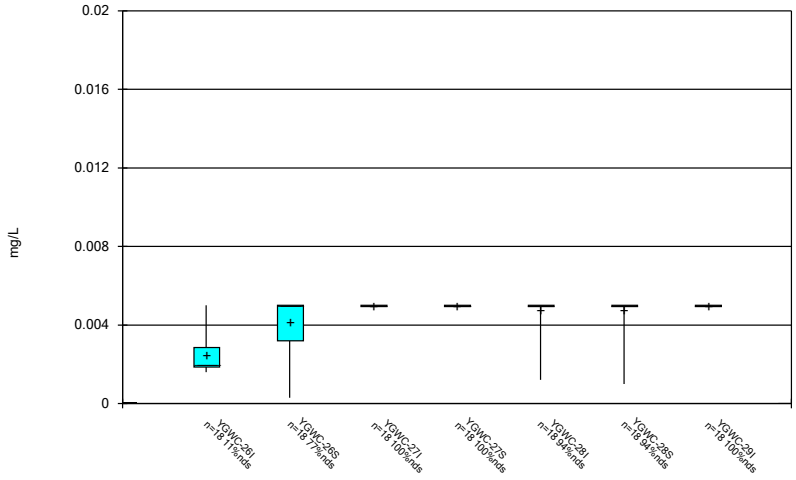
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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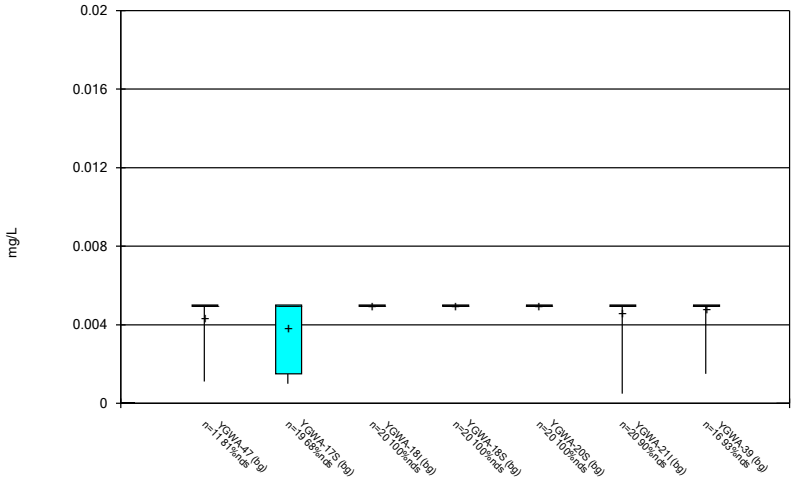
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

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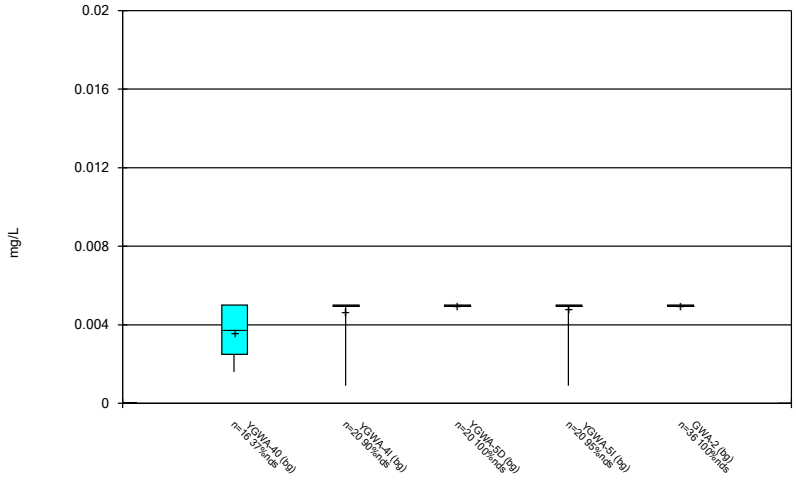

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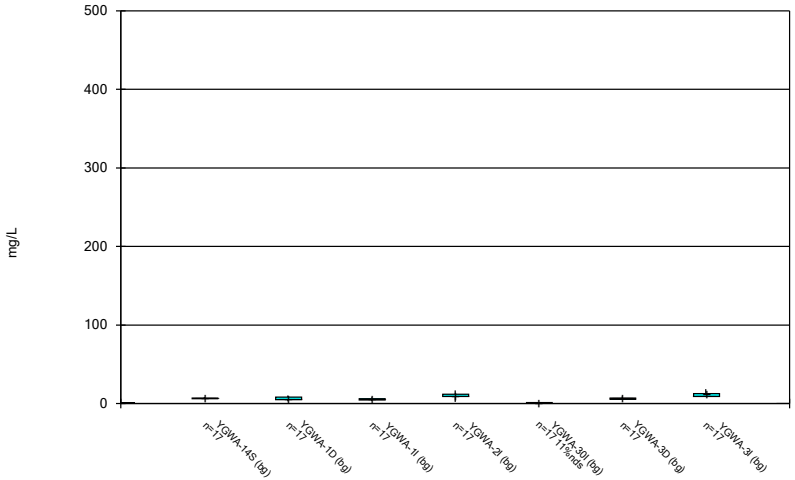

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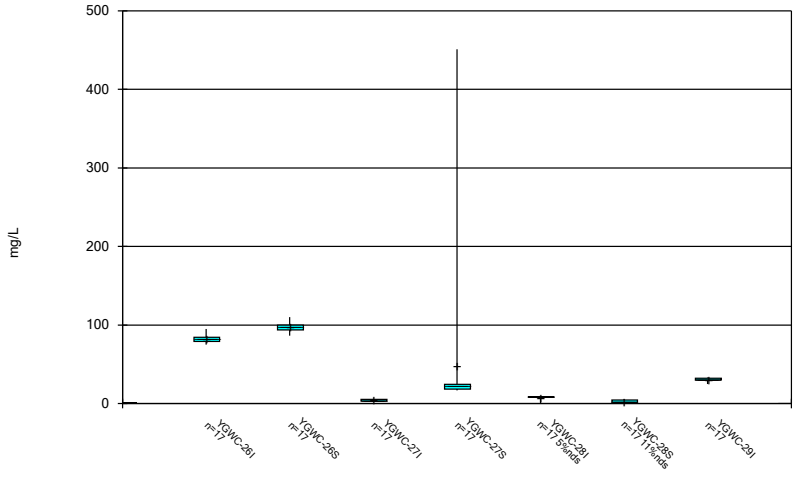
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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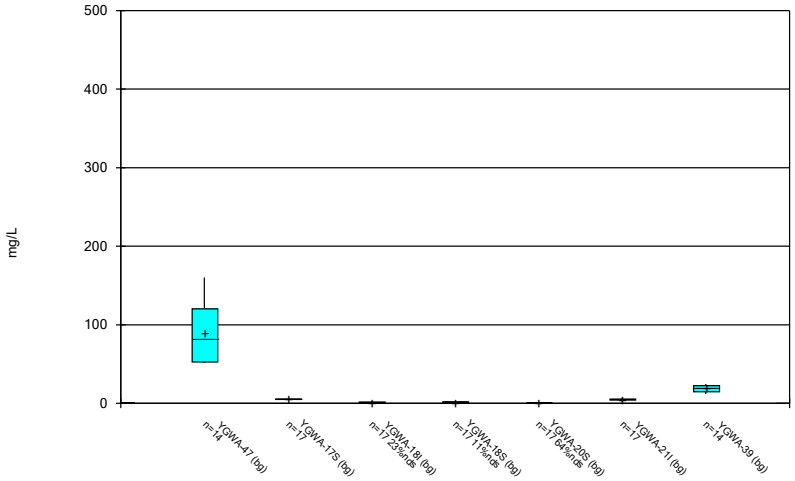
Box & Whiskers Plot



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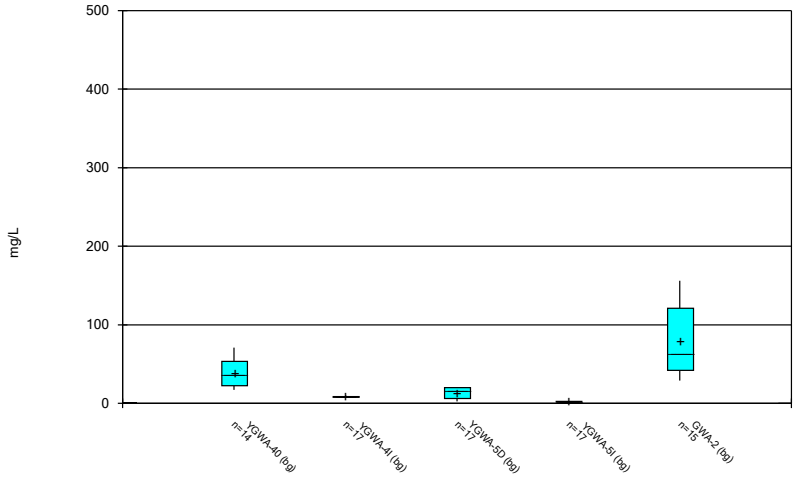
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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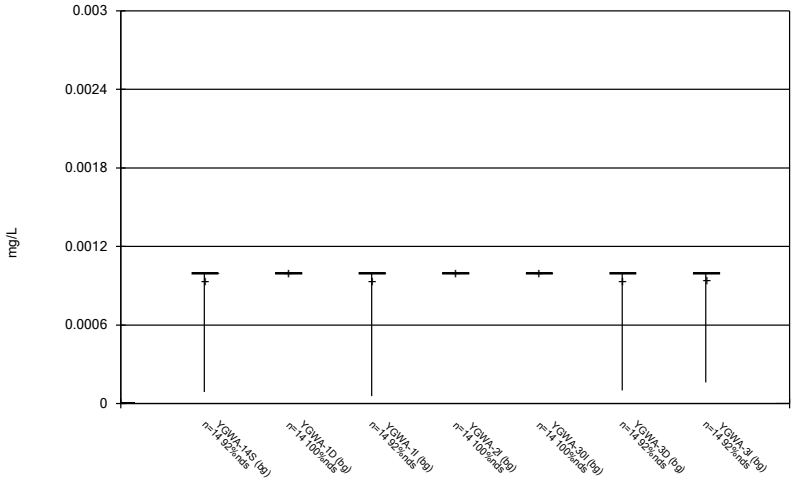
Box & Whiskers Plot



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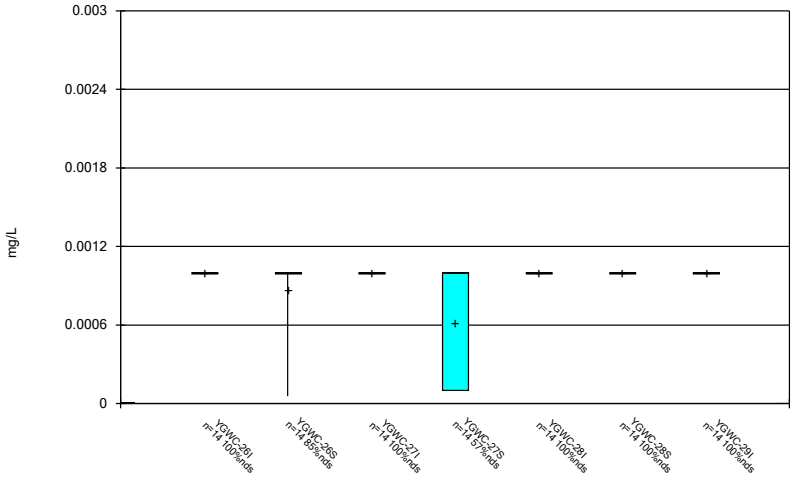
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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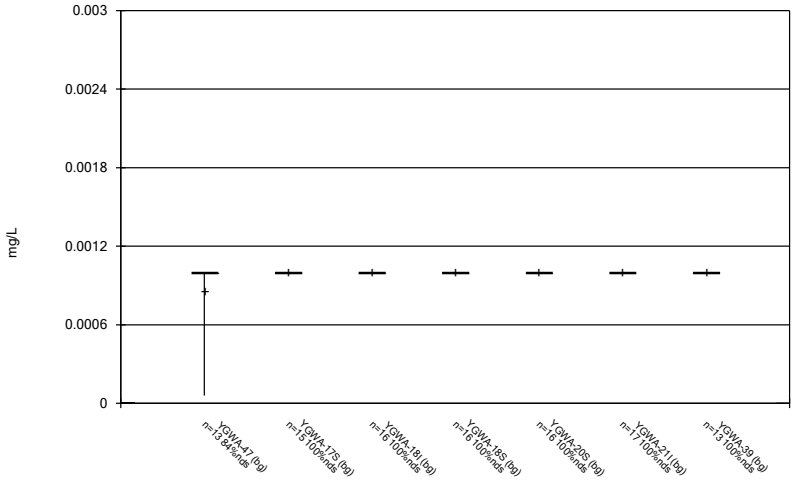
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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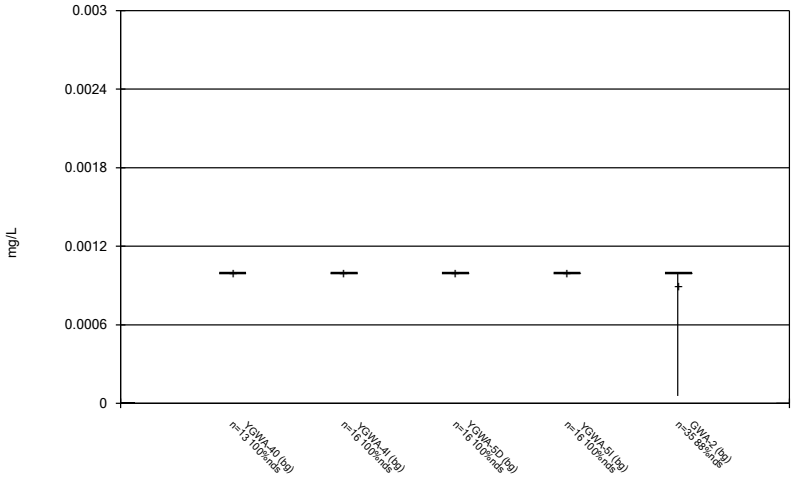
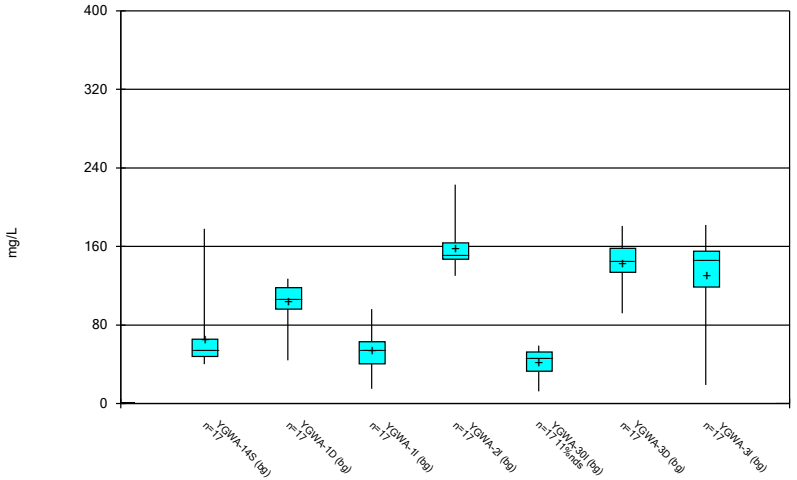
Box & Whiskers Plot



Constituent: Thallium Analysis Run 10/30/2021 2:22 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot

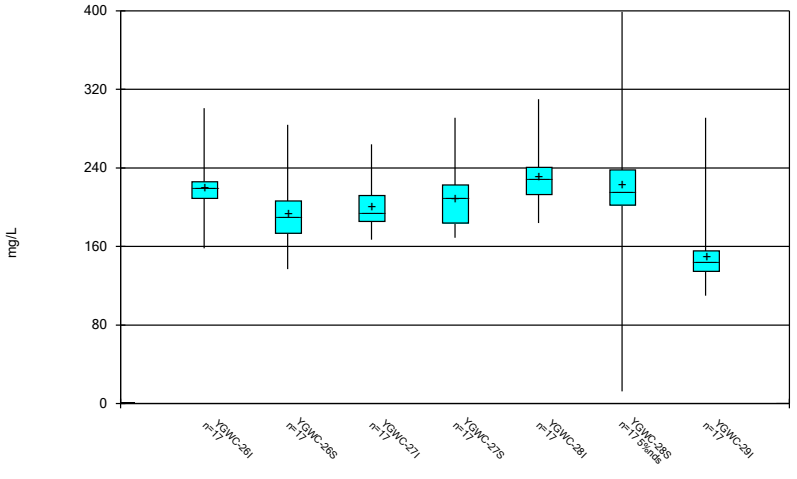


Constituent: Total Dissolved Solids Analysis Run 10/30/2021 2:22 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot

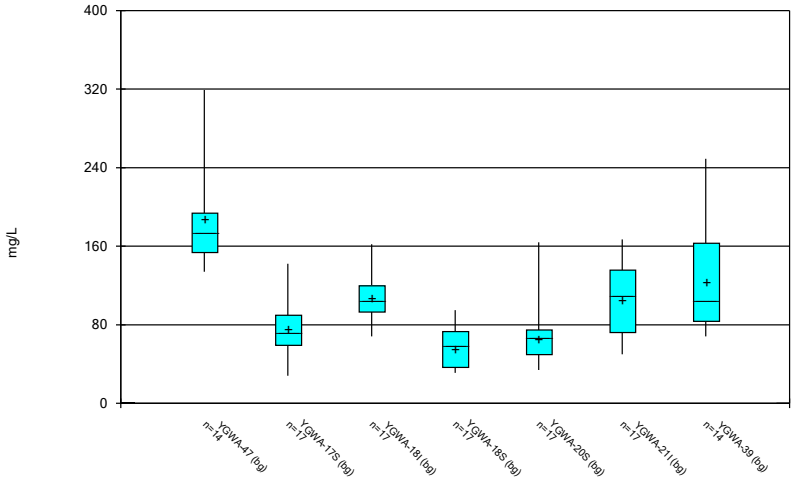


Constituent: Total Dissolved Solids Analysis Run 10/30/2021 2:22 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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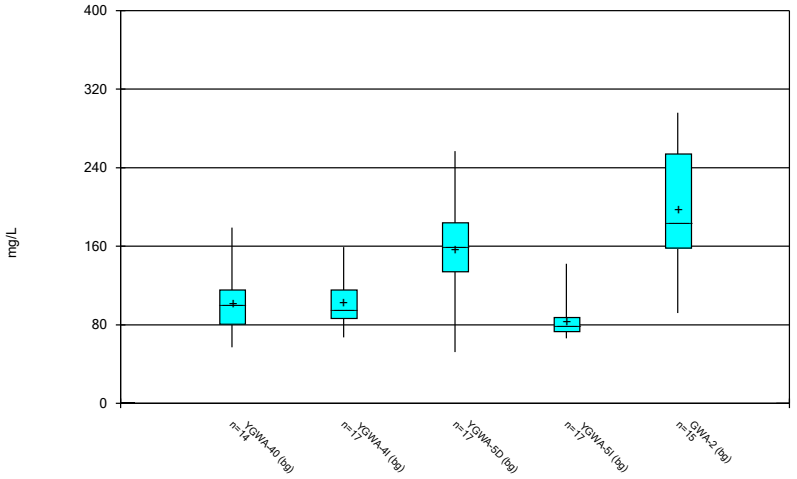
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 10/30/2021 2:22 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 10/30/2021, 2:25 PM

	GWA-2 Cobalt (mg/L)	YGWC-26I 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)		

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/30/2021, 2:31 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**	**8/20/2021**	**0.72**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-26S**	**0.16**	**n/a**	**8/19/2021**	**0.71**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-27I**	**0.16**	**n/a**	**8/20/2021**	**2.5**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-27S**	**0.16**	**n/a**	**8/20/2021**	**1.2**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-28I**	**0.16**	**n/a**	**8/20/2021**	**2.3**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-28S**	**0.16**	**n/a**	**8/20/2021**	**2.5**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-29I**	**0.16**	**n/a**	**8/20/2021**	**0.66**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-26I**	**8.5**	**n/a**	**8/20/2021**	**14.4**	**Yes**	**312**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-26S**	**8.5**	**n/a**	**8/19/2021**	**13.5**	**Yes**	**312**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-27I**	**8.5**	**n/a**	**8/20/2021**	**13.7**	**Yes**	**312**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-27S**	**8.5**	**n/a**	**8/20/2021**	**15.2**	**Yes**	**312**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-28I**	**8.5**	**n/a**	**8/20/2021**	**15.2**	**Yes**	**312**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-28S**	**8.5**	**n/a**	**8/20/2021**	**18.1**	**Yes**	**312**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Total Dissolved Solids (mg/L)	**YGWC-26I**	**220**	**n/a**	**8/20/2021**	**224**	**Yes**	**312**	**10.03**	**2.584**	**0.641**	**None**	**sqrt(x)**	**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 10/30/2021, 2:31 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**	**8/20/2021**	**0.72**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-26S**	**0.16**	**n/a**	**8/19/2021**	**0.71**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-27I**	**0.16**	**n/a**	**8/20/2021**	**2.5**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-27S**	**0.16**	**n/a**	**8/20/2021**	**1.2**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-28I**	**0.16**	**n/a**	**8/20/2021**	**2.3**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-28S**	**0.16**	**n/a**	**8/20/2021**	**2.5**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**YGWC-29I**	**0.16**	**n/a**	**8/20/2021**	**0.66**	**Yes**	**312**	**n/a**	**n/a**	**47.12**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	YGWC-26I	37	n/a	8/20/2021	17.2	No	312	n/a	n/a	0.9615	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26S	37	n/a	8/19/2021	11.5	No	312	n/a	n/a	0.9615	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27I	37	n/a	8/20/2021	25.7	No	312	n/a	n/a	0.9615	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	37	n/a	8/20/2021	29.9	No	312	n/a	n/a	0.9615	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	37	n/a	8/20/2021	33.1	No	312	n/a	n/a	0.9615	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28S	37	n/a	8/20/2021	27.8	No	312	n/a	n/a	0.9615	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-29I	37	n/a	8/20/2021	10.2	No	312	n/a	n/a	0.9615	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	**YGWC-26I**	**8.5**	**n/a**	**8/20/2021**	**14.4**	**Yes**	**312**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-26S**	**8.5**	**n/a**	**8/19/2021**	**13.5**	**Yes**	**312**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-27I**	**8.5**	**n/a**	**8/20/2021**	**13.7**	**Yes**	**312**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-27S**	**8.5**	**n/a**	**8/20/2021**	**15.2**	**Yes**	**312**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-28I**	**8.5**	**n/a**	**8/20/2021**	**15.2**	**Yes**	**312**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-28S**	**8.5**	**n/a**	**8/20/2021**	**18.1**	**Yes**	**312**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	YGWC-29I	8.5	n/a	8/20/2021	6.8	No	312	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	8/20/2021	0.1ND	No	381	n/a	n/a	67.98	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-26S	0.68	n/a	8/19/2021	0.1ND	No	381	n/a	n/a	67.98	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27I	0.68	n/a	8/20/2021	0.091J	No	381	n/a	n/a	67.98	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27S	0.68	n/a	8/20/2021	0.11	No	381	n/a	n/a	67.98	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28I	0.68	n/a	8/20/2021	0.11	No	381	n/a	n/a	67.98	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28S	0.68	n/a	8/20/2021	0.2	No	381	n/a	n/a	67.98	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-29I	0.68	n/a	8/20/2021	0.069J	No	381	n/a	n/a	67.98	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-26I	8.39	4.4	8/20/2021	5.78	No	391	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	8/19/2021	5.12	No	391	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	8/20/2021	6.17	No	391	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	8/20/2021	6.18	No	391	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	8/20/2021	6.23	No	391	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	8/20/2021	6.38	No	391	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	8/20/2021	6.07	No	391	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	8/20/2021	84	No	312	n/a	n/a	6.09	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26S	160	n/a	8/19/2021	86.5	No	312	n/a	n/a	6.09	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27I	160	n/a	8/20/2021	2.9	No	312	n/a	n/a	6.09	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27S	160	n/a	8/20/2021	18	No	312	n/a	n/a	6.09	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28I	160	n/a	8/20/2021	8.9	No	312	n/a	n/a	6.09	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28S	160	n/a	8/20/2021	5.4	No	312	n/a	n/a	6.09	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-29I	160	n/a	8/20/2021	24.7	No	312	n/a	n/a	6.09	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	**YGWC-26I**	**220**	**n/a**	**8/20/2021**	**224**	**Yes**	**312**	**10.03**	**2.584**	**0.641**	**None**	**sqrt(x)**	**0.001075**	**Param Inter 1 of 2**
Total Dissolved Solids (mg/L)	YGWC-26S	220	n/a	8/19/2021	176	No	312	10.03	2.584	0.641	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27I	220	n/a	8/20/2021	196	No	312	10.03	2.584	0.641	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27S	220	n/a	8/20/2021	169	No	312	10.03	2.584	0.641	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28I	220	n/a	8/20/2021	194	No	312	10.03	2.584	0.641	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28S	220	n/a	8/20/2021	192	No	312	10.03	2.584	0.641	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-29I	220	n/a	8/20/2021	110	No	312	10.03	2.584	0.641	None	sqrt(x)	0.001075	Param Inter 1 of 2

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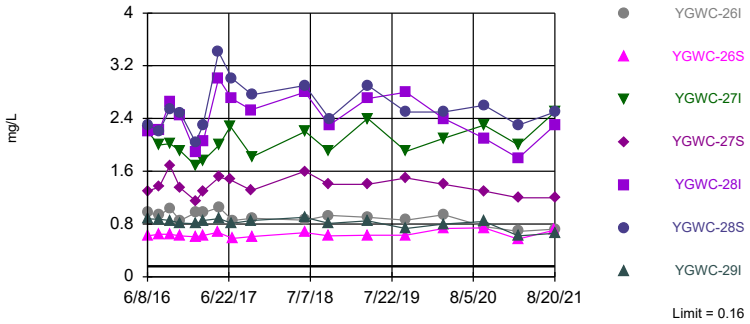
Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I

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 312 background values. 47.12% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Boron Analysis Run 10/30/2021 2:29 PM View: Appendix III

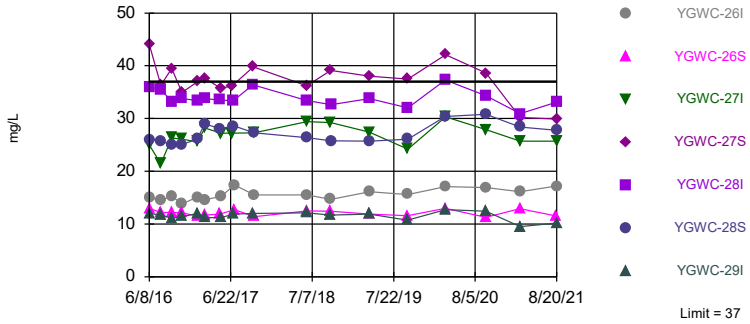
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

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 312 background values. 0.9615% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Calcium Analysis Run 10/30/2021 2:29 PM View: Appendix III

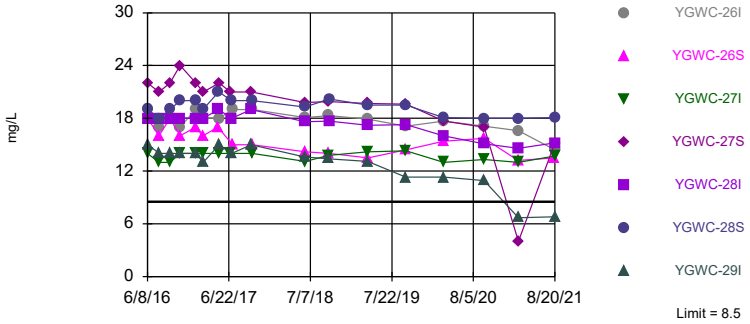
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

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 312 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 10/30/2021 2:29 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

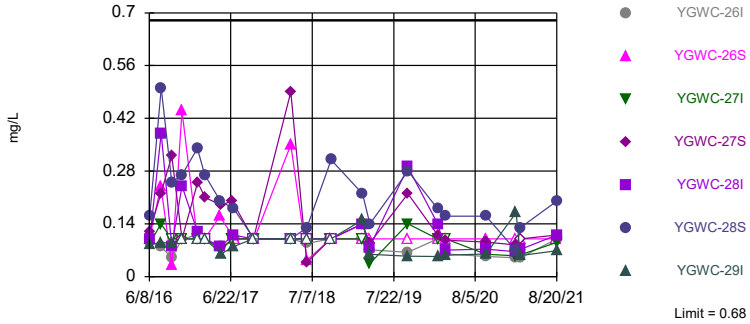
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

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 381 background values. 67.98% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Fluoride Analysis Run 10/30/2021 2:29 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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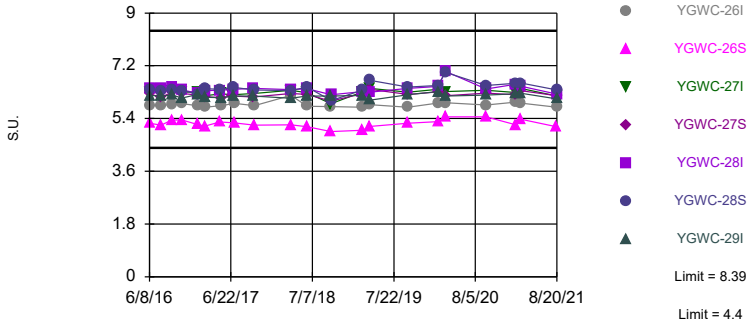
Within Limits

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 391 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 10/30/2021 2:29 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

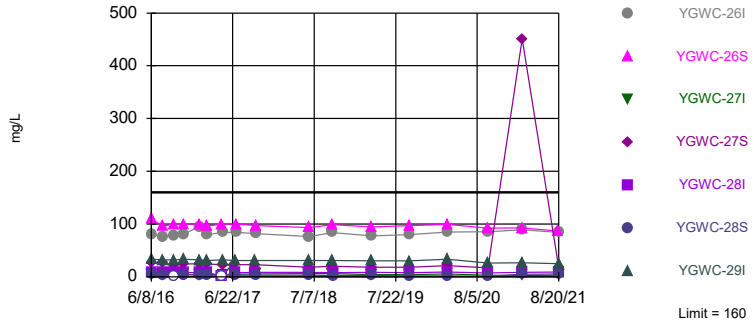
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

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 312 background values. 6.09% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 10/30/2021 2:29 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

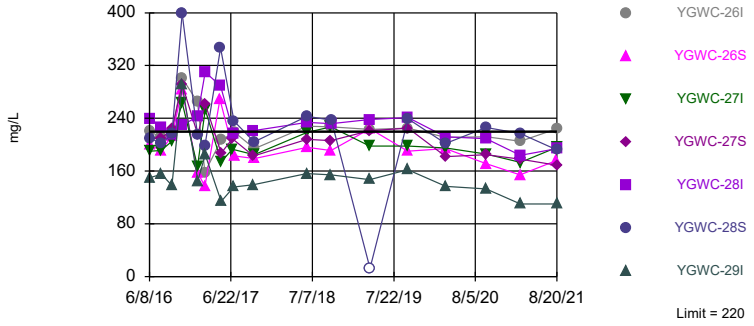
Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Exceeds Limit: YGWC-26I

Prediction Limit

Interwell Parametric



Background Data Summary (based on square root transformation): Mean=10.03, Std. Dev.=2.584, n=312, 0.641% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 12.68, 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 10/30/2021 2:29 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/30/2021 2:31 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-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-3D (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)		<0.04	0.0052 (J)	0.0047 (J)	0.0097 (J)
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					0.01 (J)	0.0071 (J)	<0.04	
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						<0.04	0.0076 (J)		
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						<0.04	0.0089 (J)		
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							0.0061 (J)	<0.04	
5/2/2017						<0.04			

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/30/2021 2:31 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-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-3D (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		0.006 (J)	0.0087 (J)			<0.04	0.0079 (J)		
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)			<0.04	0.0094 (J)		
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						<0.04		0.0045 (J)	0.004 (J)
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						0.0057 (J)	0.01 (J)	0.005 (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 10/30/2021 2:31 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-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-3D (bg)
4/2/2019									
4/3/2019						0.0044 (J)	0.0076 (J)	0.0055 (J)	
6/12/2019									
9/24/2019		0.0055 (J)	0.0064 (J)			0.0049 (J)	0.01 (J)		
9/25/2019	<0.04			0.018 (J)	<0.04			<0.04	0.0054 (J)
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)		0.0052 (J)				0.0073 (J)
3/20/2020									
3/24/2020						0.0068 (J)	0.011 (J)		
3/25/2020								0.011 (J)	
9/22/2020						0.0053 (J)	0.0079 (J)	<0.04	
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)		0.011 (J)	0.0068 (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									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/30/2021 2:31 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-26I	YGWC-26S	YGWC-27I	YGWC-27S
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						0.97	0.62	2.2	1.3
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	<0.04	0.0059 (J)	<0.04		0.008 (J)				
7/28/2016				<0.04					
8/1/2016						0.932	0.643	2	1.36
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						1.04	0.644	2.02	1.69
9/21/2016									
11/1/2016									
11/2/2016			<0.04						
11/3/2016	<0.04	0.0082 (J)		<0.04	0.0077 (J)				
11/4/2016									
11/7/2016						0.852	0.621	1.91	1.35
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						0.972	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	<0.04	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 10/30/2021 2:31 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-26I	YGWC-26S	YGWC-27I	YGWC-27S
5/3/2017							0.676		
5/5/2017									
5/8/2017						1.05		2	1.51
5/26/2017									
6/27/2017									
6/28/2017	<0.04	0.0079 (J)							
6/29/2017			<0.04	<0.04	0.0074 (J)				
6/30/2017								2.28	1.47
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)	<0.04		0.0077 (J)				
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	0.0046 (J)	0.007 (J)	<0.04	0.0054 (J)	0.0096 (J)				
9/26/2018									
10/1/2018									
10/2/2018						0.93	0.62	1.9	1.4
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019								2.4	1.4

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/30/2021 2:31 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-26I	YGWC-26S	YGWC-27I	YGWC-27S
4/2/2019				0.011 (J)	0.0066 (J)	0.9	0.63		
4/3/2019	<0.04	0.0053 (J)	<0.04						
6/12/2019									
9/24/2019				0.018 (J)					
9/25/2019			<0.04		0.0081 (J)	0.86	0.63		
9/26/2019	0.0062 (J)	0.0072 (J)						1.9	1.5
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020							0.73		
3/20/2020						0.94		2.1	1.4
3/24/2020	0.0054 (J)	0.01 (J)	<0.04	0.016 (J)	0.0092 (J)				
3/25/2020									
9/22/2020									
9/23/2020	0.021 (J)	0.006 (J)			0.0066 (J)				
9/24/2020			0.0094 (J)	0.013 (J)		0.76	0.74	2.3	1.3
9/25/2020									
3/1/2021									
3/2/2021							0.57		
3/3/2021	<0.04	0.0094 (J)	<0.04		0.01 (J)	0.69		2	1.2
3/4/2021				0.0079 (J)					
8/19/2021							0.71		
8/20/2021						0.72		2.5	1.2
8/26/2021		<0.04							
8/27/2021	<0.04		<0.04		0.011 (J)				
9/1/2021				<0.04					
9/3/2021									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/30/2021 2:31 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)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	2.3	0.88	2.2					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	2.21	0.872	2.22					
8/30/2016				0.0166 (J)				
8/31/2016					0.0315 (J)			
9/13/2016								
9/14/2016						<0.04		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	2.54	0.853	2.65					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						<0.04		
11/7/2016	2.49	0.815						
11/8/2016			2.44					
11/14/2016				0.0166 (J)				
11/28/2016					0.0095 (J)			
12/15/2016						0.0107 (J)		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						<0.04		
1/18/2017	2.04		1.88					
1/19/2017		0.803						
2/21/2017	2.29							
2/22/2017		0.855	2.05		<0.04			
2/23/2017								
2/24/2017				0.0145 (J)				
3/1/2017								
3/2/2017								
3/3/2017						<0.04		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						<0.04		
5/1/2017								
5/2/2017								

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/30/2021 2:31 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 10/30/2021 2:31 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

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/30/2021 2:31 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-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-3D (bg)
6/1/2016	21	2.5	12						
6/2/2016				1.3	1.3	2.4	33	8.8	28
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	20.3	2.16			1.17				
7/26/2016			11	1.24		2.12	32.3	7.69	24.5
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016		2.21	11.8						
9/14/2016	19.7					2.18	31	8.49	
9/15/2016				1.17					27
9/16/2016									
9/19/2016					1.05				
9/20/2016									
9/21/2016									
11/1/2016	18.4		11		1.14				25.6
11/2/2016				1.23			30.9	7.83	
11/3/2016									
11/4/2016		2.67				2.17 (J)			
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				1.24					
1/11/2017	20.3		11.2						27.5
1/12/2017						2.37	35.7		
1/13/2017								8.08	
1/16/2017		2.45			1.23				
1/18/2017									
1/19/2017									
2/21/2017					1.25				
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	18.6								
3/2/2017		2.57	11						27.5
3/3/2017									
3/6/2017								8.64	
3/7/2017						2.34	32.7		
3/8/2017				1.21					
4/26/2017	25.6			1.14	1.03				30.4
4/27/2017		2.38	11.1						
4/28/2017									
5/1/2017							37	13.4	
5/2/2017						2.17			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/30/2021 2:31 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-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-3D (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		2.36	13.8			2.13	36.5		
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			2.15	30.9		
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						2.3		8.2	29.1
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						2.3	25.8	9.5 (J)	
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)				1.3				30.1

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/30/2021 2:31 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-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-3D (bg)
4/2/2019									
4/3/2019						2.8	24.7 (J)	8.4	
6/12/2019									
9/24/2019		2.3	15.8			2.5	25.8		
9/25/2019	22.4			1.1	1.1			9.5	29.5
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		1.2				31.5
3/20/2020									
3/24/2020						2.5	26.1		
3/25/2020								10.5	
9/22/2020						2.6	27.2	9.6	
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		2.6	1.6		
3/3/2021	20.6	1.8	14.1					7.7	29.8
3/4/2021									
8/19/2021		2	14.2	1.2	1.2				28.1
8/20/2021									
8/26/2021						2.5	25.2	7.6	
8/27/2021	24.7								
9/1/2021									
9/3/2021									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/30/2021 2:31 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-26I	YGWC-26S	YGWC-27I	YGWC-27S
6/1/2016									
6/2/2016									
6/6/2016	6.2	1.4							
6/7/2016			2.3	3.7	2.2				
6/8/2016						15	13	25	44
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	4.73	1.19	2.08		2				
7/28/2016				3.15					
8/1/2016						14.5	12.2	21.4	36.3
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		1.97	3.17					
9/20/2016						15.3	12.2	26.3	39.5
9/21/2016									
11/1/2016									
11/2/2016			2.13						
11/3/2016	5.25	1.31		3.4	1.99				
11/4/2016									
11/7/2016						13.8	12.1	26.1	34.9
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			2.45	4.98					
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	5.37	1.26							
3/2/2017					2.15				
3/3/2017									
3/6/2017			2.48	6.28					
3/7/2017									
3/8/2017									
4/26/2017	4.28	1.05	2.3	6.65					
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017					1.95				

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/30/2021 2:31 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-26I	YGWC-26S	YGWC-27I	YGWC-27S
5/3/2017							11.9		
5/5/2017									
5/8/2017						15.2		27.2	35.7
5/26/2017									
6/27/2017									
6/28/2017	4.95	1.06							
6/29/2017			2.54	6.04	2.02				
6/30/2017								27.2	36.2
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	2.25		2.03				
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	4.6	1	2.3	10.4 (J)	2.1				
9/26/2018									
10/1/2018									
10/2/2018						14.7	12.4 (J)	29.2	39.1
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019								27.4	38

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/30/2021 2:31 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-26I	YGWC-26S	YGWC-27I	YGWC-27S
4/2/2019				8.8	2.5	16.1 (J)	11.9 (J)		
4/3/2019	5.3	1.2	2.9						
6/12/2019									
9/24/2019				7.7					
9/25/2019			2.4		2.6	15.6	11.6		
9/26/2019	4.9	1.1						24.2	37.5
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020							13		
3/20/2020						17.1		30.3	42.1
3/24/2020	5.3	1	2.6	6	2.7				
3/25/2020									
9/22/2020									
9/23/2020	5.2	0.91 (J)			2.6				
9/24/2020			2.6	7.8		16.9	11.3	27.9	38.6
9/25/2020									
3/1/2021									
3/2/2021							12.9		
3/3/2021	5.2	0.96 (J)	2.4		2.5	16.1		25.7	30.2
3/4/2021				8.7					
8/19/2021							11.5		
8/20/2021						17.2		25.7	29.9
8/26/2021		0.98 (J)							
8/27/2021	5.1		2.4		2.7				
9/1/2021				9.5					
9/3/2021									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/30/2021 2:31 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)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	26	12	36					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	25.8	11.7	35.5					
8/30/2016				20.9				
8/31/2016					9.31			
9/13/2016								
9/14/2016						23.5		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	24.9	11.1	33.2					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						23.7		
11/7/2016	25.1	11.4						
11/8/2016			33.8					
11/14/2016				18.6				
11/28/2016					9.47 (B)			
12/15/2016						23.1		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						23.3		
1/18/2017	26.1		33.4					
1/19/2017		12						
2/21/2017	29							
2/22/2017		11.2	33.8		10.4			
2/23/2017								
2/24/2017				16.1				
3/1/2017								
3/2/2017								
3/3/2017						25.1		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						30.7		
5/1/2017								
5/2/2017								

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/30/2021 2:31 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 10/30/2021 2:31 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

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/30/2021 2:31 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-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-3D (bg)
6/1/2016	1.3	1.6	1.3						
6/2/2016				4.1	1.9	4.3	7.2	3.7	1.4
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	1.3	1.4			1.7				
7/26/2016			1.2	4		4.4	6.6	3.6	1.6
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016		1.3	1.1						
9/14/2016	1.3					3.8	6.6	3.4	
9/15/2016				4.2					1.5
9/16/2016									
9/19/2016					1.6				
9/20/2016									
9/21/2016									
11/1/2016	1.4		1.3		1.8				1.7
11/2/2016				4.9			7.6	4.5	
11/3/2016									
11/4/2016		1.6				4.8			
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				4.1					
1/11/2017	1.1		1.1						1.2
1/12/2017						3.8	6.8		
1/13/2017								4.2	
1/16/2017		1.4			1.7				
1/18/2017									
1/19/2017									
2/21/2017					1.7				
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	1.1								
3/2/2017		1.3	1						1.2
3/3/2017									
3/6/2017								3.6	
3/7/2017						4.5	6.8		
3/8/2017				4.2					
4/26/2017	1.1			4.1	1.7				1.2
4/27/2017		1.3	1						
4/28/2017									
5/1/2017							7.2	4.3	
5/2/2017						4.6			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/30/2021 2:31 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-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-3D (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		1.4	1.1			4.3	7		
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			4.2	6.5		
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						4.5		4.4	1.2
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						5.1	4.8	4.8	
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				1.7				1.2

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/30/2021 2:31 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-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-3D (bg)
4/2/2019									
4/3/2019						4.2	4	4.3	
6/12/2019									
9/24/2019		1.3	1.1			4.5	3.7		
9/25/2019	1.1			4.8	1.6			4.5	1.1
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		1.8				1.2
3/20/2020									
3/24/2020						4.3	3.5		
3/25/2020								3.9	
9/22/2020						4.2	3.6	4.5	
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		4.3	3.2		
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	1.6				1.1
8/20/2021									
8/26/2021						4.3	3.4	4.4	
8/27/2021	1.1								
9/1/2021									
9/3/2021									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/30/2021 2:31 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-26I	YGWC-26S	YGWC-27I	YGWC-27S
6/1/2016									
6/2/2016									
6/6/2016	6.8	6.4							
6/7/2016			1.9	2.8	4.5				
6/8/2016						19	18	14	22
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	6.7	6.2	1.9		4.5				
7/28/2016				2.6					
8/1/2016						17	16	13	21
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		1.9	2.4					
9/20/2016						18	18	13	22
9/21/2016									
11/1/2016									
11/2/2016			2.6						
11/3/2016	7.5	7.4		2.9	5.4				
11/4/2016									
11/7/2016						17	16	14	24
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			2.3	2.5					
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	6.9	6							
3/2/2017					4.8				
3/3/2017									
3/6/2017			1.9	2.1					
3/7/2017									
3/8/2017									
4/26/2017	7	6.5	2	2.1					
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017					4.6				

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/30/2021 2:31 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-26I	YGWC-26S	YGWC-27I	YGWC-27S
5/3/2017							17		
5/5/2017									
5/8/2017						18		14	22
5/26/2017									
6/27/2017									
6/28/2017	7	6.4							
6/29/2017			2.6	2.8	4.5				
6/30/2017								14	21
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	2.6		4.7				
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	7.9	7.8	3.6	2.2	5.6				
9/26/2018									
10/1/2018									
10/2/2018						18.3	14	13.8	19.9
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019								14.2	19.7

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/30/2021 2:31 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-26I	YGWC-26S	YGWC-27I	YGWC-27S
4/2/2019				2.5	4.8	17.9	13.5		
4/3/2019	6.9	6.3	3.1						
6/12/2019									
9/24/2019				3.1					
9/25/2019			2.8		5.7	17.1	14.4		
9/26/2019	7	7.1						14.3	19.6
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020							15.4		
3/20/2020						17.7		13	17.7
3/24/2020	7	6.8	2.7	2.8	5				
3/25/2020									
9/22/2020									
9/23/2020	7.2	7.2			6.6				
9/24/2020			2.7	2		17.1	15.7	13.3	17
9/25/2020									
3/1/2021									
3/2/2021							13.2		
3/3/2021	7	7.2	2.7		7.1	16.6		13	4
3/4/2021				1.8					
8/19/2021							13.5		
8/20/2021						14.4		13.7	15.2
8/26/2021		7.3							
8/27/2021	7.4		2.8		8.5				
9/1/2021				1.8					
9/3/2021									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/30/2021 2:31 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)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	19	15	18					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	18	14	18					
8/30/2016				5.2				
8/31/2016					4			
9/13/2016								
9/14/2016						1.1		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	19	14	18					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						1.4		
11/7/2016	20	14						
11/8/2016			18					
11/14/2016				6.4				
11/28/2016					4.2			
12/15/2016						2.9		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						0.98		
1/18/2017	20		18					
1/19/2017		14						
2/21/2017	19							
2/22/2017		13	18		3.7			
2/23/2017								
2/24/2017				5.5				
3/1/2017								
3/2/2017								
3/3/2017						1.1		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						0.91		
5/1/2017								
5/2/2017								

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/30/2021 2:31 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 10/30/2021 2:31 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

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/30/2021 2:31 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 10/30/2021 2:31 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 10/30/2021 2:31 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)
2/27/2019	<0.1	0.13 (J)	0.052 (J)					0.53	
3/4/2019				<0.1	0.19 (J)		<0.1		
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019	<0.1		0.036 (J)						
3/29/2019									<0.1
4/1/2019		0.1 (J)				<0.1		0.45	
4/2/2019									
4/3/2019				<0.1	0.047 (J)		<0.1		
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019	<0.1		0.063 (J)	<0.1	0.05 (J)				
9/25/2019		0.1 (J)				<0.1	<0.1	0.46	<0.1
9/26/2019									
10/8/2019									
10/9/2019									
2/10/2020	<0.1		0.061 (J)						
2/11/2020		0.094 (J)							
2/12/2020				<0.1	<0.1	<0.1	<0.1	0.4	<0.1
2/13/2020									
3/17/2020									
3/18/2020	<0.1								<0.1
3/19/2020		0.11 (J)	0.064 (J)			<0.1		0.51	
3/20/2020									
3/24/2020				<0.1	<0.1				
3/25/2020							<0.1		
8/26/2020									
8/27/2020									
9/22/2020				<0.1	0.056 (J)		<0.1		
9/23/2020	<0.1	0.098 (J)	0.058 (J)					0.47	
9/24/2020						<0.1			
9/25/2020									<0.1
2/8/2021				<0.1	0.055 (J)				
2/9/2021							<0.1		
2/10/2021		<0.1						0.43	<0.1
2/11/2021						<0.1			
2/12/2021	<0.1		0.068 (J)						
3/1/2021						<0.1			
3/2/2021				<0.1	<0.1				<0.1
3/3/2021	<0.1	0.1	0.078 (J)				<0.1	0.44	
3/4/2021									
8/19/2021	<0.1		0.074 (J)			<0.1		0.47	<0.1
8/20/2021									
8/26/2021				<0.1	0.061 (J)		<0.1		
8/27/2021		0.12							
9/1/2021									
9/3/2021									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/30/2021 2:31 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-27S	YGWC-26I	YGWC-27I	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						0.12 (J)	0.094 (J)	0.086 (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						0.22 (J)	0.08 (J)	0.14 (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						0.32	0.05 (J)	<0.1	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							0.11 (J)	<0.1 (*)	<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 10/30/2021 2:31 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-27S	YGWC-26I	YGWC-27I	YGWC-26S
5/3/2017									0.16 (J)
5/5/2017									
5/8/2017						0.19 (J)	0.08 (J)	0.07 (J)	
5/26/2017									
6/27/2017									
6/28/2017	<0.1	<0.1							
6/29/2017			<0.1	<0.1	<0.1				
6/30/2017						0.2 (J)		<0.1 (*)	
7/5/2017									
7/7/2017									
7/10/2017							<0.1 (*)		<0.1 (*)
7/11/2017									
7/17/2017									
10/3/2017					<0.1				
10/4/2017	<0.1		<0.1	<0.1					
10/5/2017		<0.1							
10/6/2017						<0.1 (*)			
10/9/2017								<0.1 (*)	
10/10/2017							<0.1		<0.1
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	<0.1	<0.1		<0.1					
3/29/2018			<0.1		<0.1	0.49		<0.1	
3/30/2018							<0.1		0.35
4/2/2018									
4/3/2018									
6/5/2018					0.13 (J)				
6/6/2018			<0.1						
6/7/2018		<0.1							
6/8/2018									
6/11/2018	<0.1			<0.1					
6/12/2018						0.037 (J)			
6/13/2018							0.088 (J)	<0.1	0.044 (J)
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	<0.1	<0.1	<0.1	<0.1	0 (J)				
9/26/2018									
10/1/2018									
10/2/2018						<0.1	<0.1	<0.1	<0.1
10/3/2018									
2/25/2019									
2/26/2019									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/30/2021 2:31 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-27S	YGWC-26I	YGWC-27I	YGWC-26S
2/27/2019						0.14 (J)	<0.1	<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)		0.071 (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				0.22 (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						0.11 (J)	<0.1	<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)	0.092 (J)	0.053 (J)	0.059 (J)	<0.1
9/25/2020									
2/8/2021									
2/9/2021	<0.1	<0.1	<0.1		0.092 (J)				
2/10/2021						0.084 (J)	0.05 (J)	0.055 (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		<0.1	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									

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/30/2021 2:31 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	0.16 (J)	0.098 (J)	0.085 (J)					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	0.5	0.38	0.09 (J)					
8/30/2016				0.09 (J)				
8/31/2016					0.14 (J)			
9/13/2016								
9/14/2016						0.08 (J)		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	0.25 (J)	0.08 (J)	0.09 (J)					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						<0.1		
11/7/2016	0.27 (J)		<0.1 (*)					
11/8/2016		0.24 (J)						
11/14/2016				0.18 (J)				
11/28/2016					0.12 (J)			
12/15/2016						0.06 (J)		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						0.1 (J)		
1/18/2017	0.34	0.12 (J)						
1/19/2017			<0.1 (*)					
2/21/2017	0.27 (J)							
2/22/2017		<0.1 (*)	<0.1 (*)		0.09 (J)			
2/23/2017								
2/24/2017				0.05 (J)				
3/1/2017								
3/2/2017								
3/3/2017						<0.1		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						0.06 (J)		
5/1/2017								
5/2/2017								

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/30/2021 2:31 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	0.2 (J)	0.08 (J)						
5/8/2017			0.06 (J)	0.03 (J)	0.05 (J)			
5/26/2017						0.09 (J)		
6/27/2017								
6/28/2017						0.11 (J)		
6/29/2017								
6/30/2017								
7/5/2017		0.11 (J)	0.08 (J)					
7/7/2017	0.18 (J)							
7/10/2017								
7/11/2017				0.07 (J)				
7/17/2017					0.14 (J)			
10/3/2017						<0.1		
10/4/2017								
10/5/2017		<0.1 (*)	<0.1 (*)					
10/6/2017								
10/9/2017	<0.1 (*)							
10/10/2017				<0.1				
10/11/2017							<0.1	
10/12/2017								<0.1
10/16/2017					0.12 (J)			
11/20/2017							<0.1	<0.1
1/10/2018								<0.1
1/11/2018							<0.1	
2/19/2018					0.17			<0.1
2/20/2018							0.23	
3/27/2018								
3/28/2018						0.31		
3/29/2018			<0.1					
3/30/2018	<0.1	<0.1						
4/2/2018				<0.1				
4/3/2018							<0.1	<0.1
6/5/2018								
6/6/2018								
6/7/2018						0.11 (J)		
6/8/2018								
6/11/2018			<0.1					
6/12/2018	0.13 (J)	<0.1						
6/13/2018								
6/28/2018							<0.1	<0.1
8/6/2018					0.087 (J)			
8/7/2018							0.048 (J)	<0.1
9/19/2018				<0.1				
9/24/2018							<0.1	<0.1
9/25/2018								
9/26/2018								
10/1/2018						<0.1		
10/2/2018			<0.1					
10/3/2018	0.31	<0.1						
2/25/2019					0.14 (J)			
2/26/2019								

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/30/2021 2:31 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/27/2019	0.22 (J)	0.14 (J)	0.15 (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	0.28 (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)	0.14 (J)	0.053 (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	0.073 (J)	0.06 (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	0.072 (J)	0.056 (J)			0.085 (J)		
3/4/2021							<0.1	<0.1
8/19/2021				<0.1				
8/20/2021	0.2	0.11	0.069 (J)		0.06 (J)			
8/26/2021							0.063 (J)	
8/27/2021						0.12		
9/1/2021								
9/3/2021								<0.1

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/30/2021 2:31 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-4I (bg)
8/27/2008	6.53								
3/3/2009	6.35								
11/18/2009	6.47								
3/3/2010	6.53								
3/10/2011	5.83								
9/8/2011	5.69								
3/5/2012	6.27								
9/10/2012	6.23								
2/6/2013	7.56								
8/12/2013	6.68								
2/5/2014	6.32								
8/3/2015	6.13 (D)								
2/16/2016	5.64								
6/1/2016		7.72	6.33	7.46					
6/2/2016					7.84	5.75	5.75	5.46	6.36
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016		7.74	6.21			5.82			
7/26/2016				7.43	7.88		5.72	5.45	6.22
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
9/13/2016			6.16	7.44					
9/14/2016		7.65					5.74		6.23
9/15/2016					7.74			5.45	
9/16/2016									
9/19/2016						5.78 (D)			
9/20/2016									
9/21/2016									
11/1/2016		7.7		7.24	7.75	5.62			
11/2/2016								5.41	6.08
11/3/2016									
11/4/2016			6.29				5.61		
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016	6.23								
12/15/2016									
1/10/2017								5.37	
1/11/2017		7.53		7.3	7.66				
1/12/2017							5.71		
1/13/2017									6.19
1/16/2017			6.29			5.72			
1/18/2017									
1/19/2017									
2/21/2017						5.67			
2/22/2017	6.21								
2/23/2017									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/30/2021 2:31 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-4I (bg)
2/24/2017									
3/1/2017		7.42							
3/2/2017			6.28	7.23	7.68				
3/3/2017									
3/6/2017									6.2
3/7/2017							5.66		
3/8/2017								5.41	
4/26/2017		7.4			7.45	5.56		5.02	
4/27/2017			6.09	6.99					
4/28/2017									
5/1/2017									6.21
5/2/2017							5.65		
5/3/2017									
5/5/2017									
5/8/2017	6.12								
5/26/2017									
6/27/2017			6.21	6.87			5.7		
6/28/2017		7.5			7.65				
6/29/2017									6.21
6/30/2017						5.72		5.39	
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017	6.03								
10/3/2017			5.98	6.81			5.79		
10/4/2017		7.45			7.49	5.87			
10/5/2017								5.49	6.16
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017	6.12								
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018	6.13								
2/20/2018									
3/27/2018			6.25			5.83		5.47	
3/28/2018		7.74			7.91				
3/29/2018				7.38			5.63		6.09
3/30/2018									
4/2/2018									
4/3/2018									
6/5/2018				7.16					
6/6/2018			6.17						
6/7/2018					7.69		5.63		6.12
6/8/2018		7.64						5.45	
6/11/2018						5.69			
6/12/2018									
6/13/2018									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/30/2021 2:31 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-14S (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		5.84
10/1/2018		7.47	5.9	6.8	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		7.54	5.8	6.84	7.55				
3/4/2019							5.75		6.18
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		6.43
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		
9/25/2019		7.47			7.64	5.69		5.19	6.2
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	5.8	5.83	5.48	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	6			
3/20/2020									
3/24/2020							5.81		
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		5.8
9/23/2020		7.37	6.01	7.15	7.57				
9/24/2020						5.67			
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 10/30/2021 2:31 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-14S (bg)	YGWA-4I (bg)
2/11/2021						5.73			
2/12/2021			6.21	7.14					
3/1/2021						5.78			
3/2/2021	5.42						5.63	5.49	
3/3/2021		8.23	5.38	7.2	8.39				6.21
3/4/2021									
8/19/2021			6.38	6.32	5.34			7.32	
8/20/2021	5.86								
8/26/2021							5.51		5.82
8/27/2021		7.39							
9/1/2021									
9/3/2021									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/30/2021 2:31 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-5D (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-26I	YGWC-26S	YGWC-27I
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	7.67								
6/6/2016		5.71	6.17						
6/7/2016				6.1	5.62	5.77			
6/8/2016							5.85	5.24	6.32
6/9/2016									
7/25/2016									
7/26/2016	7.66								
7/27/2016		5.46	6.14		5.59	5.79			
7/28/2016				6.12					
8/1/2016							5.83	5.17	6.34
8/2/2016									
8/30/2016									
9/13/2016									
9/14/2016	7.6								
9/15/2016									
9/16/2016					5.58				
9/19/2016		5.59	6.04	6.12		5.73			
9/20/2016							5.89	5.35	6.36
9/21/2016									
11/1/2016									
11/2/2016	7.35					5.67			
11/3/2016		5.39	5.97	6.07	5.59				
11/4/2016									
11/7/2016							5.91	5.35	6.3
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	7.49								
1/13/2017				6.41		5.79			
1/16/2017									
1/18/2017							5.84	5.2	6.31
1/19/2017									
2/21/2017							5.79	5.14	
2/22/2017									
2/23/2017									6.18

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/30/2021 2:31 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-5D (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-26I	YGWC-26S	YGWC-27I
2/24/2017									
3/1/2017		5.41	5.94						
3/2/2017					5.54				
3/3/2017									
3/6/2017				6.34		5.63			
3/7/2017	7.43								
3/8/2017									
4/26/2017		5.4	5.99	6.32		5.66			
4/27/2017									
4/28/2017									
5/1/2017	7.22								
5/2/2017					5.47				
5/3/2017								5.28	
5/5/2017									
5/8/2017							5.84		6.24
5/26/2017									
6/27/2017	7.32								
6/28/2017		5.36	6						
6/29/2017				6.47	5.56	5.85			
6/30/2017									6.21
7/5/2017									
7/7/2017									
7/10/2017							5.92	5.25	
7/11/2017									
7/17/2017									
10/3/2017	7.48			6.56					
10/4/2017		5.32			5.57	5.83			
10/5/2017			6.11						
10/6/2017									
10/9/2017									6.26
10/10/2017							5.84	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	7.02			6.75		5.93			6.36
3/30/2018							6.19	5.19	
4/2/2018									
4/3/2018									
6/5/2018				6.09					
6/6/2018	7.43					5.86			
6/7/2018			5.98						
6/8/2018									
6/11/2018		5.28			5.58				
6/12/2018									
6/13/2018							5.82	5.12	6.28

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/30/2021 2:31 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-5D (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-26I	YGWC-26S	YGWC-27I
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018		4.86	5.81	6.67	5.59	5.84			
9/26/2018	7.13								
10/1/2018									
10/2/2018							5.81	4.95	5.9
10/3/2018									
2/25/2019									
2/26/2019									
2/27/2019							5.79	5	6.31
3/4/2019	7.46								
3/5/2019		5.26		7.22	5.48	6.07			
3/6/2019			5.99						
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019									6.43
4/2/2019				6.94	5.74		5.87	5.13	
4/3/2019	7.11	5.47	6.29			5.71			
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019	6.93			6.87					
9/25/2019					5.49	5.86	5.79	5.24	
9/26/2019		5.2	6.04						6.3
10/8/2019									
10/9/2019									
2/10/2020									
2/11/2020		5.3	6.07		5.58				
2/12/2020	7.52			7.13		6			
2/13/2020							5.93	5.29	6.4
3/17/2020									
3/18/2020									
3/19/2020								5.46	
3/20/2020							5.94		6.32
3/24/2020	7.34	5.33	5.98	6.35	5.57	5.86			
3/25/2020									
5/6/2020									
8/26/2020									
8/27/2020									
9/22/2020	7.19								
9/23/2020		5.29	6.01		5.58				
9/24/2020				6.7		5.8	5.86	5.46	6.36
9/25/2020									
2/8/2021									
2/9/2021		5.43	6.12	6.95		5.86			
2/10/2021							5.96	5.18	6.29

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/30/2021 2:31 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-5D (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-26I	YGWC-26S	YGWC-27I
2/11/2021									
2/12/2021									
3/1/2021									
3/2/2021	7.15							5.38	
3/3/2021		5.31	5.89		5.52	5.89	5.93		6.43
3/4/2021				6.8					
8/19/2021								5.12	
8/20/2021							5.78		6.17
8/26/2021	7.16	4.4							
8/27/2021			5.4		5.27	5.57			
9/1/2021				6.65					
9/3/2021									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/30/2021 2:31 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27S	YGWC-28I	YGWC-29I	YGWC-28S	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
8/27/2008								
3/3/2009								
11/18/2009								
3/3/2010								
3/10/2011								
9/8/2011								
3/5/2012								
9/10/2012								
2/6/2013								
8/12/2013								
2/5/2014								
8/3/2015								
2/16/2016								
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016	6.24							
6/9/2016		6.42	6.19	6.39				
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016	6.12							
8/2/2016		6.43	6.17	6.35				
8/30/2016					5.75			
9/13/2016						7.41		
9/14/2016								
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016	6.3							
9/21/2016		6.45	6.2	6.39				
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						7.12		
11/7/2016	6.25		6.1	6.36				
11/8/2016		6.37						
11/14/2016					5.59			
11/28/2016								
12/15/2016						7.24		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						7.24		
1/18/2017		6.27		6.23				
1/19/2017	6.2		6.22					
2/21/2017				6.42				
2/22/2017	6.14	6.35	6.12					
2/23/2017								

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/30/2021 2:31 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27S	YGWC-28I	YGWC-29I	YGWC-28S	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		6.36		6.4				
5/8/2017	6.11		6.11		5.58			
5/26/2017						7.13		
6/27/2017								
6/28/2017						7.06		
6/29/2017								
6/30/2017	6.17							
7/5/2017		6.4	6.17					
7/7/2017				6.46				
7/10/2017								
7/11/2017					5.58			
7/17/2017								
10/3/2017						6.99		
10/4/2017								
10/5/2017		6.43	6.17					
10/6/2017	6.13							
10/9/2017				6.37				
10/10/2017					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	6.25		6.09					
3/30/2018		6.39		6.35				
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	6.22	6.42		6.47				
6/13/2018								

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/30/2021 2:31 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27S	YGWC-28I	YGWC-29I	YGWC-28S	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	5.99		6.17					
10/3/2018		6.21		6.01				
2/25/2019								
2/26/2019								
2/27/2019	6.26	6.32	6.19	6.38		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	6.4	6.3	6.03					
4/2/2019				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			6.21					
9/26/2019	6.22	6.43		6.47				
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	6.31	6.49	6.32	6.53				
3/17/2020					5.57			
3/18/2020								
3/19/2020		7.01		6.98		7.22		
3/20/2020	6.18		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	6.27	6.41	6.2	6.53			5.7	5.43
9/25/2020								
2/8/2021								
2/9/2021								
2/10/2021	6.21					7.29	5.8	5.19

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/30/2021 2:31 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27S	YGWC-28I	YGWC-29I	YGWC-28S	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/11/2021		6.57						
2/12/2021			6.24	6.6				
3/1/2021					5.48			
3/2/2021								
3/3/2021	6.35	6.51	6.27	6.61		7.92		
3/4/2021							5.54	5.23
8/19/2021					5.5			
8/20/2021	6.18	6.23	6.07	6.38				
8/26/2021							6.91	
8/27/2021						7.14		
9/1/2021								
9/3/2021								4.75

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/30/2021 2:31 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-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-3D (bg)
6/1/2016	12	4.2	5						
6/2/2016				6.6	1.3	1.9	20	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		1.8	20	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					1.8	19	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						1.9	19		
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						2.1	20		
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 10/30/2021 2:31 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-30I (bg)	YGWA-5I (bg)	YGWA-5D (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			2.1	18		
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			2.3	16		
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						2.3	7.9	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 10/30/2021 2:31 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-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-3D (bg)
4/2/2019									
4/3/2019						2.1	7	8.5	
6/12/2019									
9/24/2019		4.3	5.3			2.4	5.5		
9/25/2019	13.8			6.6	0.81 (J)			8.5	7
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		1.6				9
3/20/2020									
3/24/2020						2.1	5.9		
3/25/2020								8.8	
9/22/2020						2.1	5.5	8.2	
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		2.3	2.6		
3/3/2021	9.6	4.4	9					7.8	7
3/4/2021									
8/19/2021		4.9	8.9	6.7	1				7.5
8/20/2021									
8/26/2021						2.4	6	8.5	
8/27/2021	18.2								
9/1/2021									
9/3/2021									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/30/2021 2:31 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-26I	YGWC-26S	YGWC-27I	YGWC-27S
6/1/2016									
6/2/2016									
6/6/2016	1.2	1.8							
6/7/2016			<1	5.2	4.4				
6/8/2016						81	110	3.2	26
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	3.6	27
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		0.08 (J)	4.8					
9/20/2016						78	100	5.6	21
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	5.4	24
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			<1	4.3					
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			<1	4.5					
3/7/2017									
3/8/2017									
4/26/2017	1.6	1.9	<1	4.9					
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017					5				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/30/2021 2:31 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-26I	YGWC-26S	YGWC-27I	YGWC-27S
5/3/2017							100		
5/5/2017									
5/8/2017						84		3.9	23
5/26/2017									
6/27/2017									
6/28/2017	<1	<1							
6/29/2017			<1	5.5	5.2				
6/30/2017								5	23
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	0.13 (J)	7	6.1				
9/26/2018									
10/1/2018									
10/2/2018						83.9	99	6.1	20.2
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019								4.1	18.3

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/30/2021 2:31 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-26I	YGWC-26S	YGWC-27I	YGWC-27S
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						4.2	18.2
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020							99.4		
3/20/2020						84.7		5.2	21.1
3/24/2020	<1	0.99 (J)	<1	3	5.4				
3/25/2020									
9/22/2020									
9/23/2020	0.53 (J)	1.1			5.1				
9/24/2020			<1	3.6		85.6	92.3	3	16.6
9/25/2020									
3/1/2021									
3/2/2021							92.7		
3/3/2021	<1	1	<1		5.2	89.3		2.6	451
3/4/2021				4.5					
8/19/2021							86.5		
8/20/2021						84		2.9	18
8/26/2021		1.2							
8/27/2021	0.59 (J)		<1		5.3				
9/1/2021				5					
9/3/2021									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/30/2021 2:31 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)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	5.2	33	8.7					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	4.5	32	7.5					
8/30/2016				160				
8/31/2016					29			
9/13/2016								
9/14/2016						9.4		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	<1 (*)	32	8					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						13		
11/7/2016	4.3	33						
11/8/2016			8.3					
11/14/2016				150				
11/28/2016					36			
12/15/2016						1.8		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						11		
1/18/2017	2.7		8					
1/19/2017		32						
2/21/2017	3							
2/22/2017		31	8.2		43			
2/23/2017								
2/24/2017				120				
3/1/2017								
3/2/2017								
3/3/2017						8.8		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						10		
5/1/2017								
5/2/2017								

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/30/2021 2:31 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: Sulfate (mg/L) Analysis Run 10/30/2021 2:31 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	2.4							
4/3/2019								
6/12/2019					83.4			
9/24/2019						9.1		
9/25/2019		30						
9/26/2019	1.6		7.9					
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	1.7		9.1			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	0.99 (J)	26.2	7.2				11.7	22.9
9/25/2020								
3/1/2021				51.6				
3/2/2021					156			
3/3/2021	4.9	26.6	8.6			10.6		
3/4/2021							12	21.5
8/19/2021				52.6				
8/20/2021	5.4	24.7	8.9		121			
8/26/2021							19.2	
8/27/2021						16.7		
9/1/2021								
9/3/2021								21.3

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/30/2021 2:31 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-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-3D (bg)
6/1/2016	150	54	120						
6/2/2016				46	36	66	160	96	130
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	135	48			50				
7/26/2016			94	54		78	177	92	141
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016		67	105						
9/14/2016	127					73	187	102	
9/15/2016				54					153
9/16/2016									
9/19/2016					35				
9/20/2016									
9/21/2016									
11/1/2016	75		44		<25				92
11/2/2016				71			181	115	
11/3/2016									
11/4/2016		60				75			
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				45					
1/11/2017	148		107						159
1/12/2017						86	202		
1/13/2017								67	
1/16/2017		65			47				
1/18/2017									
1/19/2017									
2/21/2017					<25				
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	182								
3/2/2017		61	98						117
3/3/2017									
3/6/2017								159	
3/7/2017						108	257		
3/8/2017				178					
4/26/2017	92			52	55				181
4/27/2017		31	116						
4/28/2017									
5/1/2017							165	107	
5/2/2017						103			

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/30/2021 2:31 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-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-3D (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		42	89			73	189		
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			89	170		
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						142		90	95
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						86	144	116	
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)				54				149

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/30/2021 2:31 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-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-3D (bg)
4/2/2019									
4/3/2019						83	142	111	
6/12/2019									
9/24/2019		54	124			79	129		
9/25/2019	159			64	51			117	157
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		35		57					
3/19/2020	148		116		47				146
3/20/2020									
3/24/2020						68	139		
3/25/2020								146	
9/22/2020						75	104	83	
9/23/2020	155	15	108						157
9/24/2020					51				
9/25/2020				54					
3/1/2021					23				
3/2/2021				67		67	52		
3/3/2021	111	39	99					80	137
3/4/2021									
8/19/2021		44	105	54	50				144
8/20/2021									
8/26/2021						86	123	93	
8/27/2021	155								
9/1/2021									
9/3/2021									

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/30/2021 2:31 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-26I	YGWC-26S	YGWC-27I	YGWC-27S
6/1/2016									
6/2/2016									
6/6/2016	120	58							
6/7/2016			38	60	28				
6/8/2016						220	200	190	210
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	94	35	74		74				
7/28/2016				81					
8/1/2016						211	191	191	209
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		45	68					
9/20/2016						217	213	205	224
9/21/2016									
11/1/2016									
11/2/2016			53						
11/3/2016	104	48		61	41				
11/4/2016									
11/7/2016						301	284	264	291
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			46	76					
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	119	79							
3/2/2017					77				
3/3/2017									
3/6/2017			164	167					
3/7/2017									
3/8/2017									
4/26/2017	162	36	34	50					
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017					142				

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/30/2021 2:31 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-26I	YGWC-26S	YGWC-27I	YGWC-27S
5/3/2017							269		
5/5/2017									
5/8/2017						207		174	187
5/26/2017									
6/27/2017									
6/28/2017	98	45							
6/29/2017			68	94	53				
6/30/2017								193	209
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	54		61				
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	109	63	73	122	86				
9/26/2018									
10/1/2018									
10/2/2018						227	191	227	206
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019								198	221

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/30/2021 2:31 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-26I	YGWC-26S	YGWC-27I	YGWC-27S
4/2/2019				134	72	223	224		
4/3/2019	89	63	57						
6/12/2019									
9/24/2019				157					
9/25/2019			75		81	225	190		
9/26/2019	126	72						198	225
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020							194		
3/20/2020						211		195	182
3/24/2020	91	59	76	117	71				
3/25/2020									
9/22/2020									
9/23/2020	103	81			99				
9/24/2020			69	113		212	171	186	185
9/25/2020									
3/1/2021									
3/2/2021							154		
3/3/2021	95	37	53		57	205		173	178
3/4/2021				110					
8/19/2021							176		
8/20/2021						224		196	169
8/26/2021		31							
8/27/2021	112		67		93				
9/1/2021				137					
9/3/2021									

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/30/2021 2:31 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)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	210	150	240					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	202	155	226					
8/30/2016				319				
8/31/2016					209			
9/13/2016								
9/14/2016						152		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	216	138	214					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						148		
11/7/2016	399	291						
11/8/2016			229					
11/14/2016				280				
11/28/2016					102			
12/15/2016						191		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						180		
1/18/2017	215 (D)		243 (D)					
1/19/2017		145 (D)						
2/21/2017	198							
2/22/2017		185	310		164			
2/23/2017								
2/24/2017				162				
3/1/2017								
3/2/2017								
3/3/2017						156		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						130		
5/1/2017								
5/2/2017								

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/30/2021 2:31 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					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 10/30/2021 2:31 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							
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

FIGURE E.

Appendix III Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/30/2021, 2:34 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	**YGWC-29I**	**-0.0283**	**-66**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-47 (bg)**	**-0.000923**	**-50**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01963**	**-52**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.05961**	**-72**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3I (bg)**	**-0.05007**	**-72**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-26S**	**-0.8136**	**-83**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-27S**	**-1.254**	**-106**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-28I**	**-0.4434**	**-80**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.4824**	**-58**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-17S (bg)**	**0.4027**	**92**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-20S (bg)**	**0.1782**	**82**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.8704**	**-97**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWA-47 (bg)**	**-15.69**	**-67**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWA-40 (bg)**	**-16.17**	**-53**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	**YGWA-5D (bg)**	**-17**	**-86**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/30/2021, 2:34 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-14S (bg)	-0.0008768	-36	-63	No	17	11.76	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.00007668	10	63	No	17	29.41	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-18	-63	No	17	70.59	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	-14	-63	No	17	76.47	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-25	-63	No	17	82.35	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	-1	-63	No	17	58.82	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-21	-63	No	17	88.24	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-26I	-0.04307	-58	-63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-26S	0.008373	28	63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27I	0.05704	33	63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27S	-0.02017	-17	-63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28I	0	-1	-63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28S	0.02398	17	63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	**YGWC-29I**	**-0.0283**	**-66**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-47 (bg)**	**-0.000923**	**-50**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-17S (bg)	0	1	63	No	17	11.76	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-30	-63	No	17	76.47	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0	0	63	No	17	17.65	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-13	-63	No	17	88.24	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	-0.005469	-53	-63	No	17	58.82	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.004253	27	48	No	14	7.143	n/a	n/a	0.01	NP
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01963**	**-52**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-4I (bg)	0	-11	-63	No	17	64.71	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0001974	14	63	No	17	11.76	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-39	-63	No	17	58.82	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	11	53	No	15	60	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1776	42	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	-0.002869	-40	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	-0.02701	-41	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.04401	-47	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	-0.02202	-32	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.05961**	**-72**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3I (bg)**	**-0.05007**	**-72**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWC-26I	-0.3473	-49	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWC-26S**	**-0.8136**	**-83**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWC-27I	0	-9	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWC-27S**	**-1.254**	**-106**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-28I**	**-0.4434**	**-80**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWC-28S	-0.1896	-24	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.4824**	**-58**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-17S (bg)**	**0.4027**	**92**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-18I (bg)	0.06344	47	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18S (bg)	0.2062	62	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-20S (bg)**	**0.1782**	**82**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-21I (bg)	-0.1349	-41	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.3996	26	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.2116	37	48	No	14	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-4I (bg)	0.1004	41	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.8704**	**-97**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-5I (bg)	0	-3	-63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.1877	43	53	No	15	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - All Results

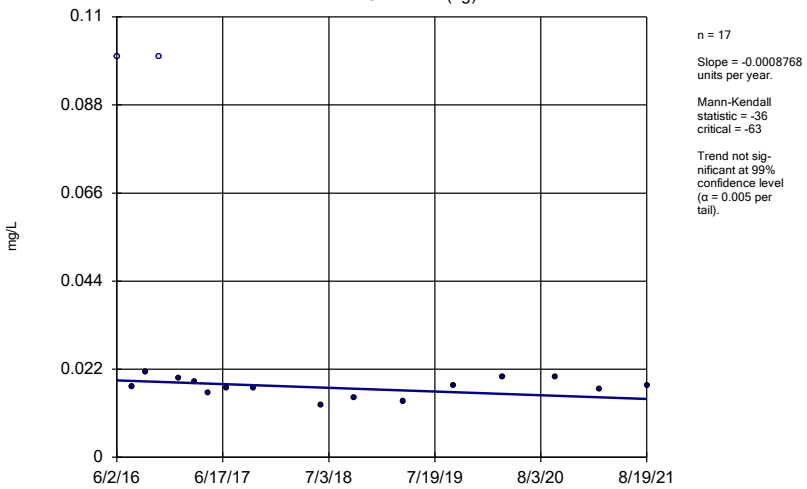
Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/30/2021, 2:34 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Total Dissolved Solids (mg/L)	YGWA-14S (bg)	1.46	17	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1D (bg)	0.915	10	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1I (bg)	-3.586	-32	-63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-2I (bg)	-2.761	-35	-63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-30I (bg)	1.885	20	63	No	17	11.76	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3D (bg)	1.346	10	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3I (bg)	1.702	14	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-26I	-1.143	-9	-63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWA-47 (bg)**	**-15.69**	**-67**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-17S (bg)	5.4	32	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18I (bg)	-1.272	-13	-63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18S (bg)	0.4413	9	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-20S (bg)	3.135	31	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21I (bg)	13.94	56	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	25.58	41	48	No	14	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWA-40 (bg)**	**-16.17**	**-53**	**-48**	**Yes**	**14**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-4I (bg)	0.3992	4	63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	**YGWA-5D (bg)**	**-17**	**-86**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Total Dissolved Solids (mg/L)	YGWA-5I (bg)	0	-1	-63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-2 (bg)	25.14	48	53	No	15	0	n/a	n/a	0.01	NP

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 17

Slope = -0.0008768 units per year.

Mann-Kendall statistic = -36
critical = -63

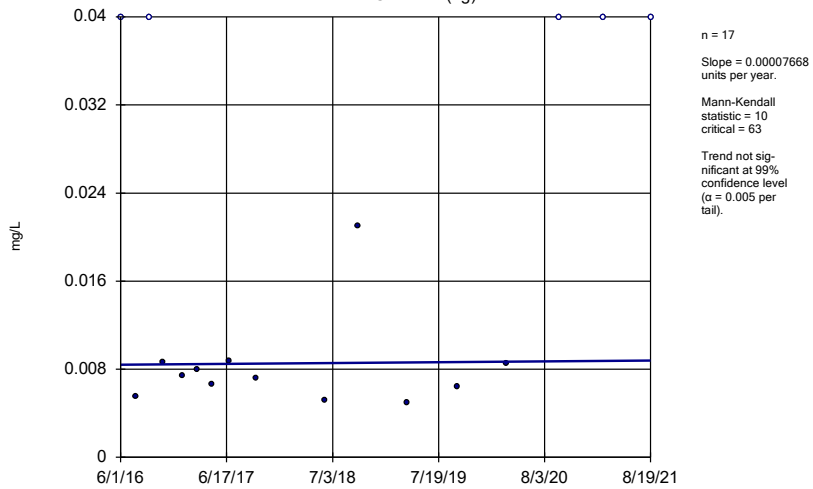
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 17

Slope = 0.00007668 units per year.

Mann-Kendall statistic = 10
critical = 63

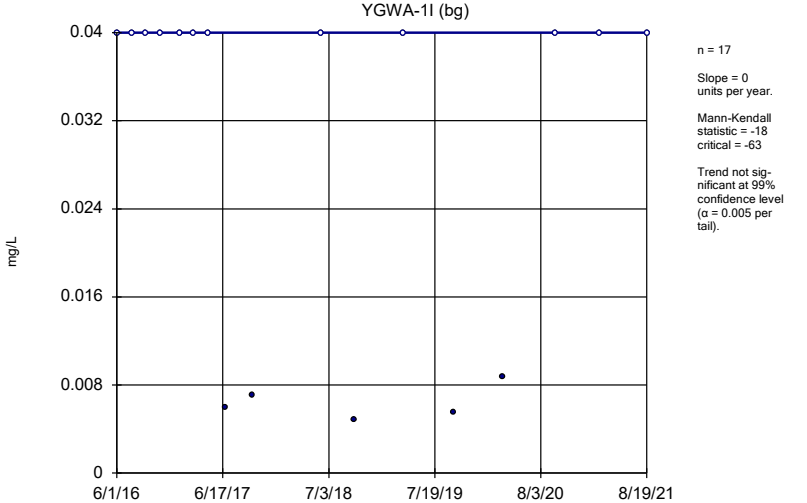
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -18
critical = -63

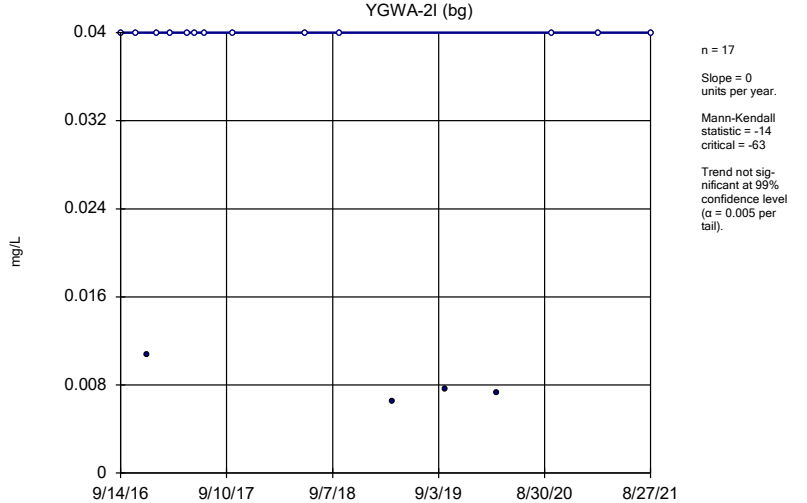
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -14
critical = -63

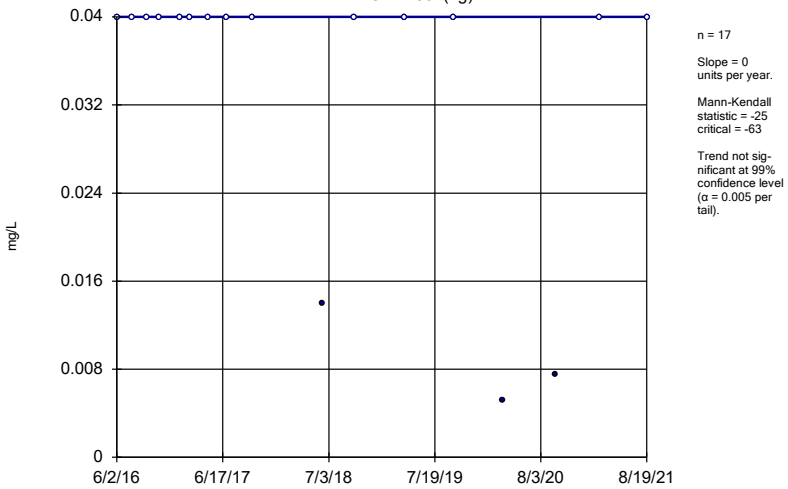
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -25
critical = -63

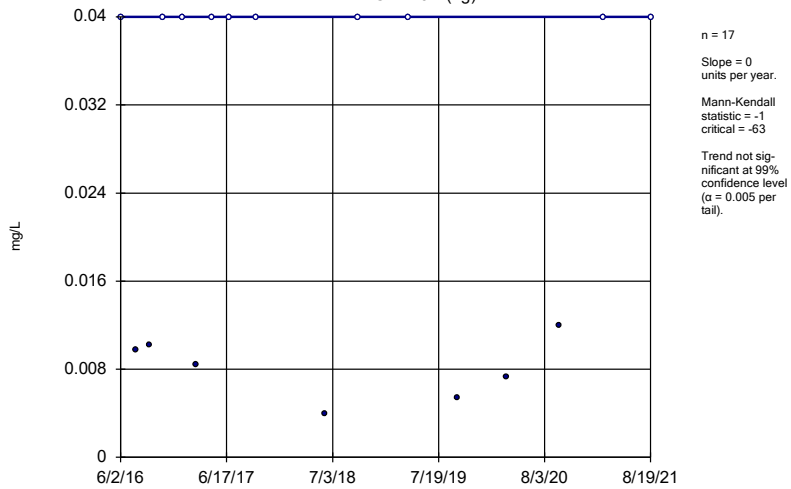
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -1
critical = -63

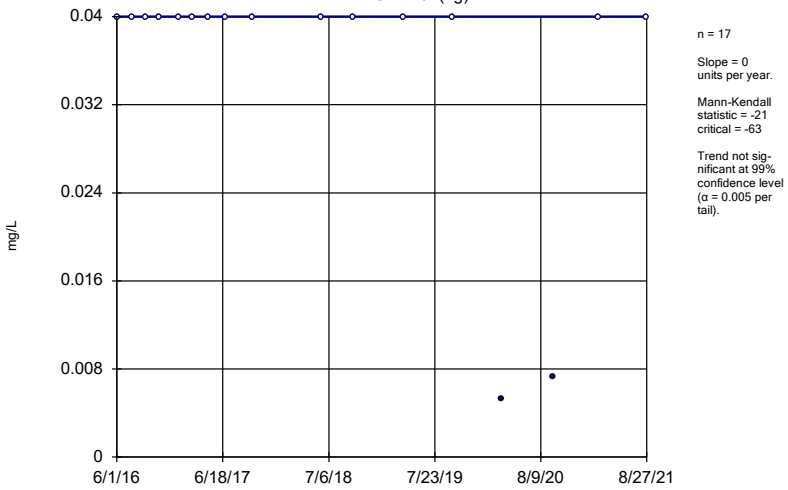
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -21
critical = -63

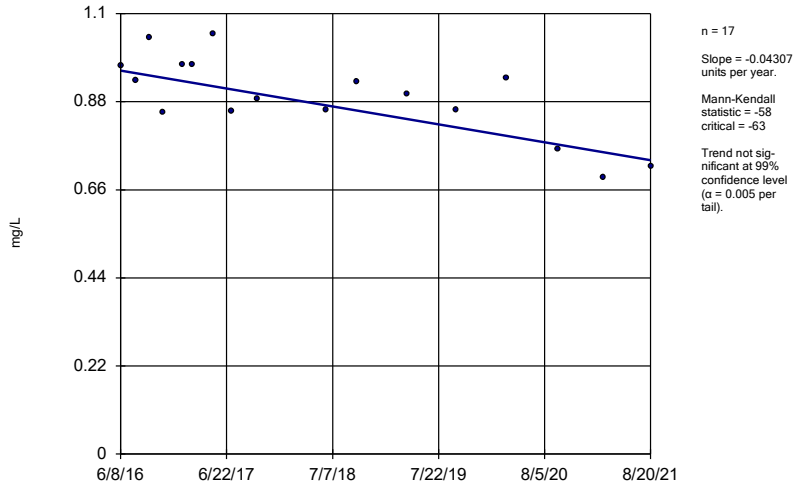
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-26I



n = 17

Slope = -0.04307 units per year.

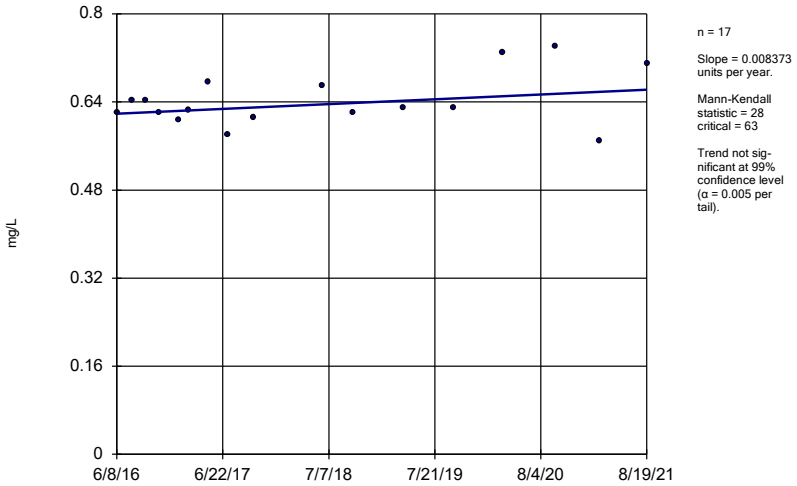
Mann-Kendall statistic = -58
critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-26S



n = 17

Slope = 0.008373 units per year.

Mann-Kendall statistic = 28
critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

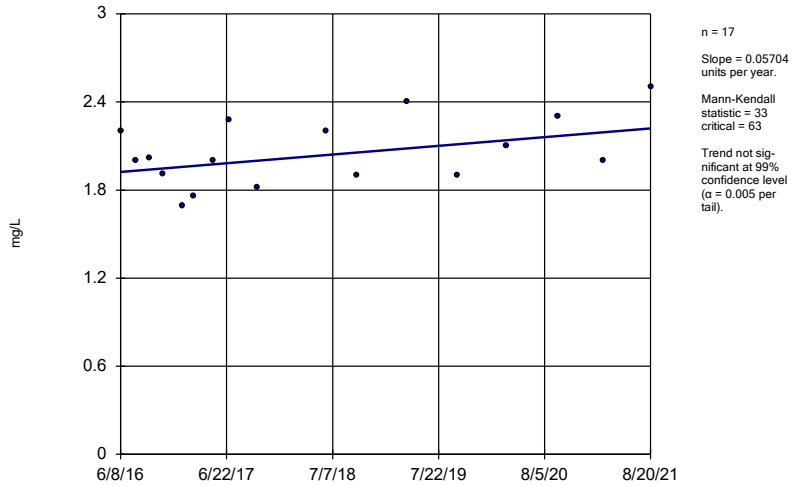
Constituent: Boron Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-27I



n = 17

Slope = 0.05704 units per year.

Mann-Kendall statistic = 33
critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

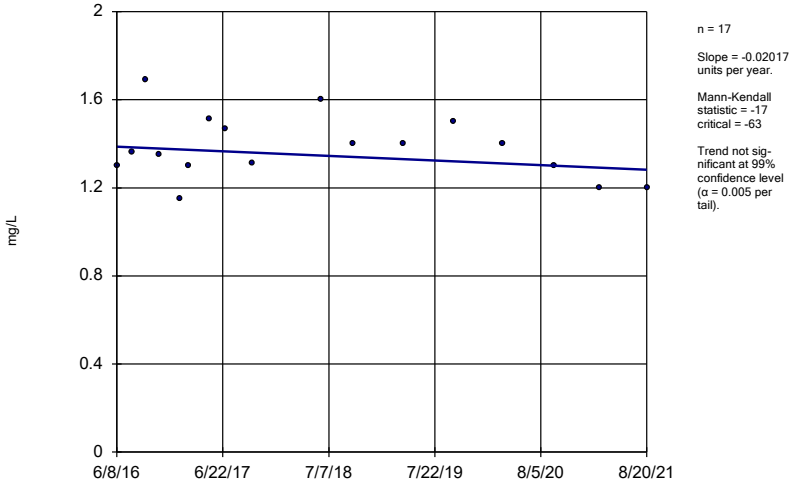
Constituent: Boron Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-27S



n = 17

Slope = -0.02017 units per year.

Mann-Kendall statistic = -17
critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

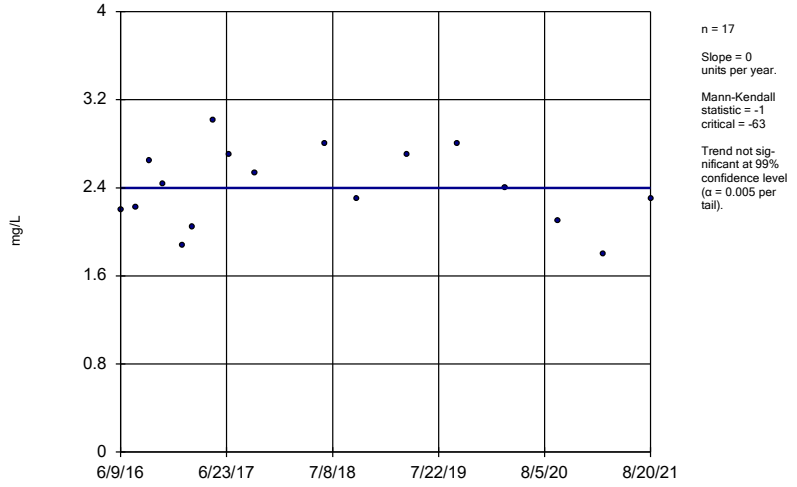
Constituent: Boron Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-28I



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -1
critical = -63

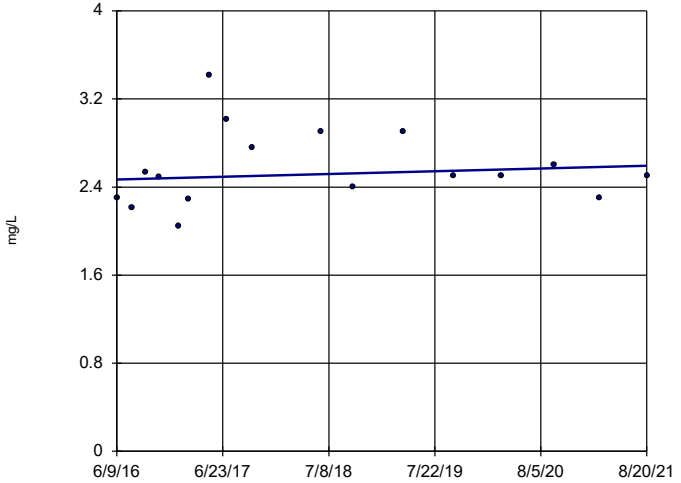
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-28S



n = 17

Slope = 0.02398 units per year.

Mann-Kendall statistic = 17
critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

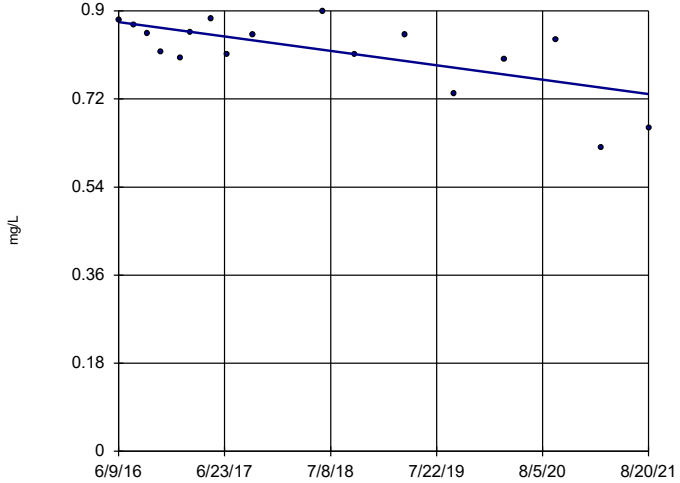
Constituent: Boron Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-29I



n = 17

Slope = -0.0283 units per year.

Mann-Kendall statistic = -66
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

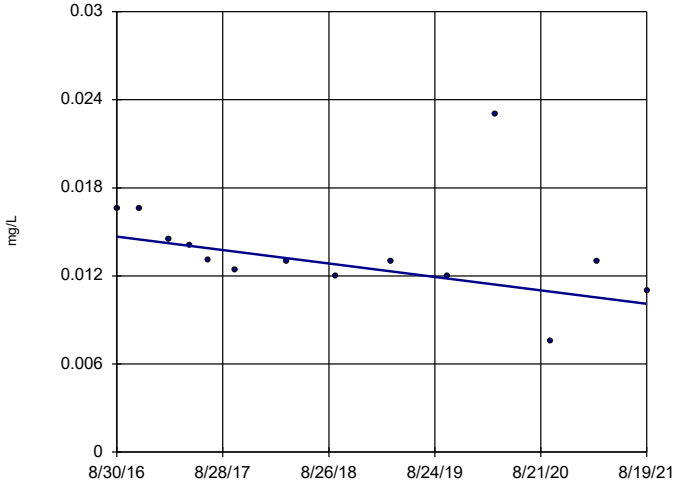
Constituent: Boron Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 14

Slope = -0.000923 units per year.

Mann-Kendall statistic = -50
critical = -48

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

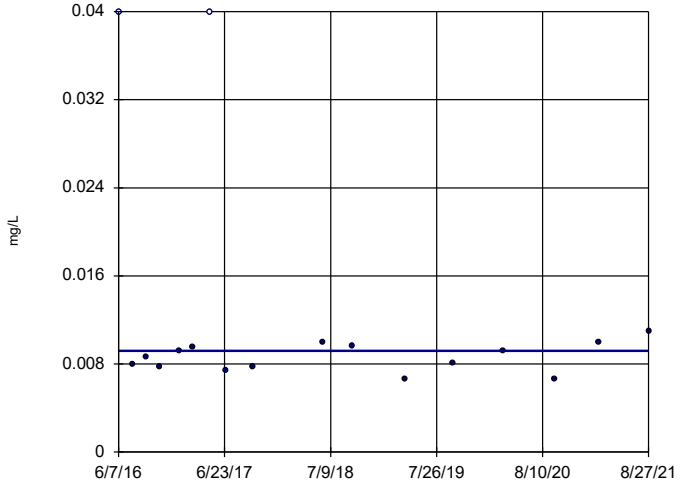
Constituent: Boron Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = 1
critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

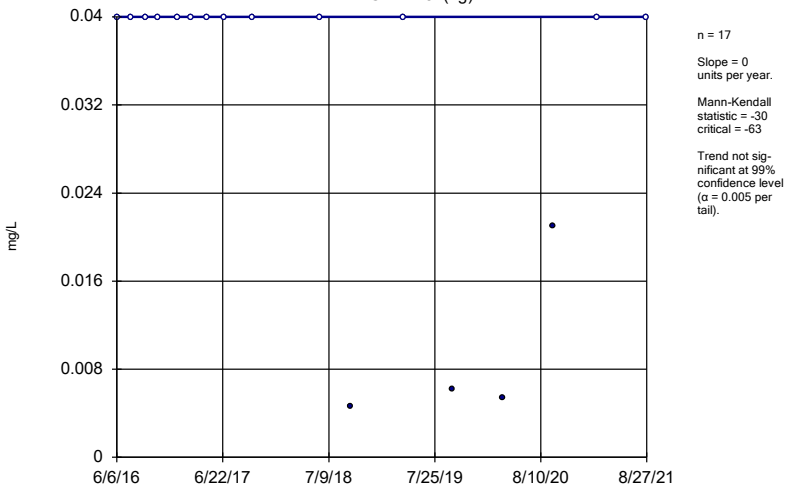
Constituent: Boron Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -30
critical = -63

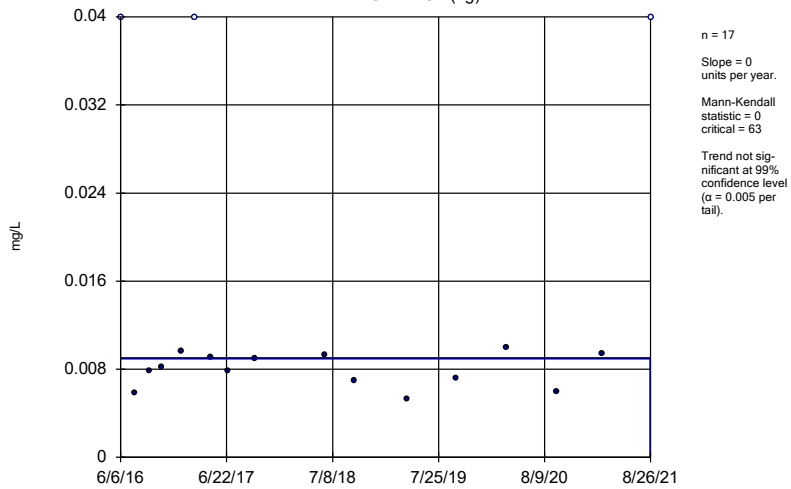
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 63

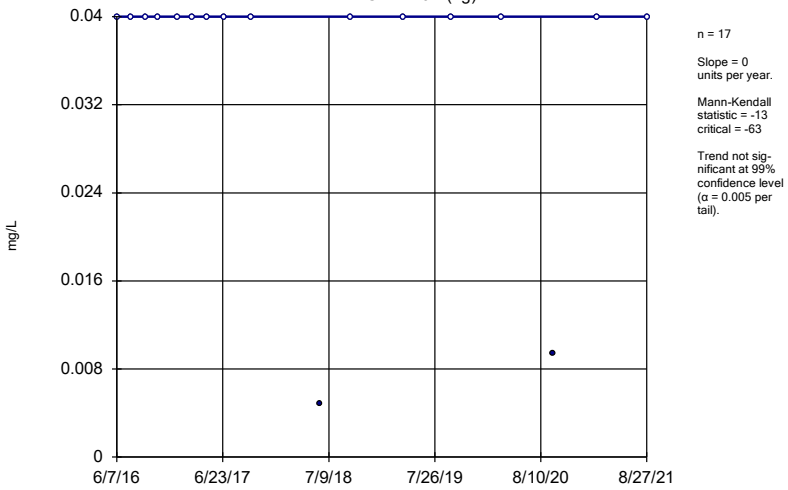
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -13
critical = -63

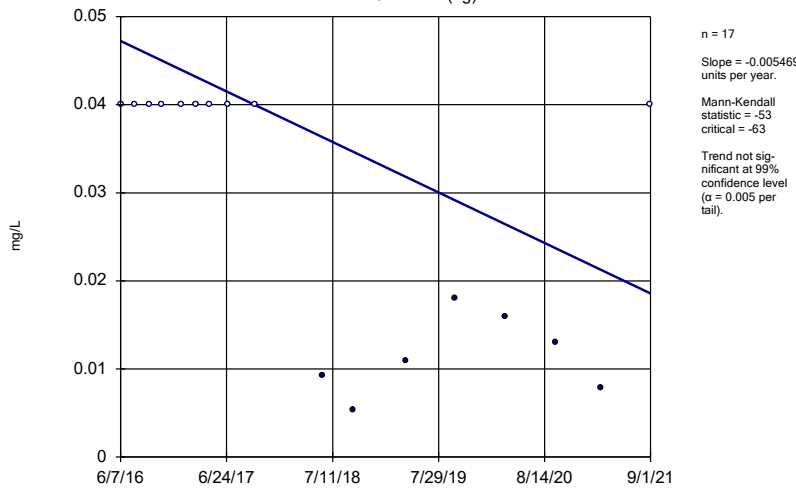
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 17

Slope = -0.005469 units per year.

Mann-Kendall statistic = -53
critical = -63

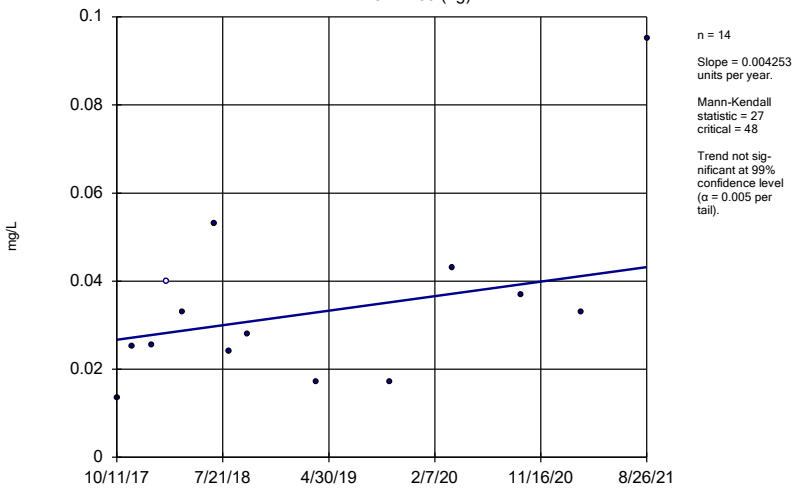
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 14

Slope = 0.004253 units per year.

Mann-Kendall statistic = 27
critical = 48

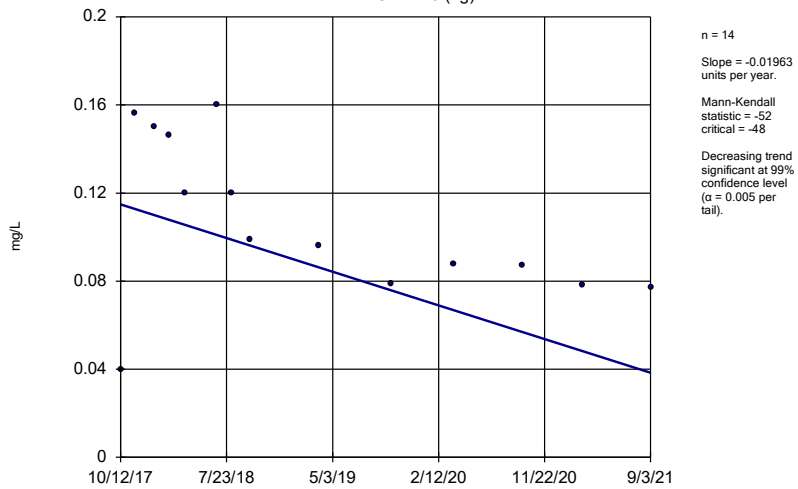
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 14

Slope = -0.01963 units per year.

Mann-Kendall statistic = -52
critical = -48

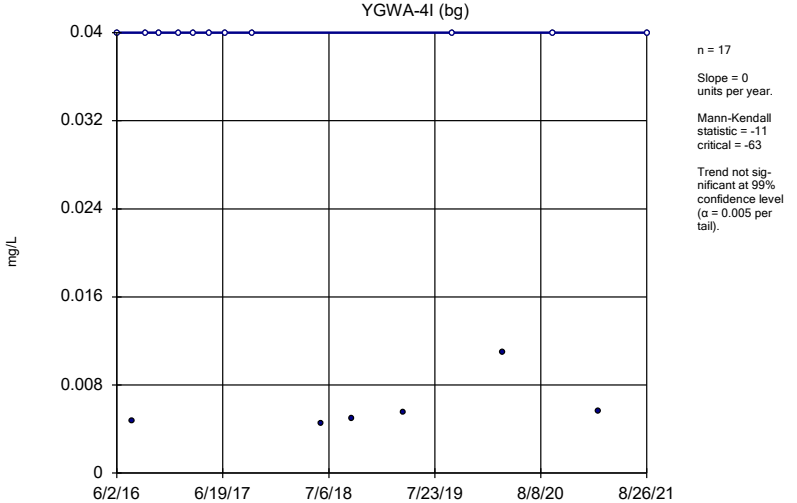
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -11
critical = -63

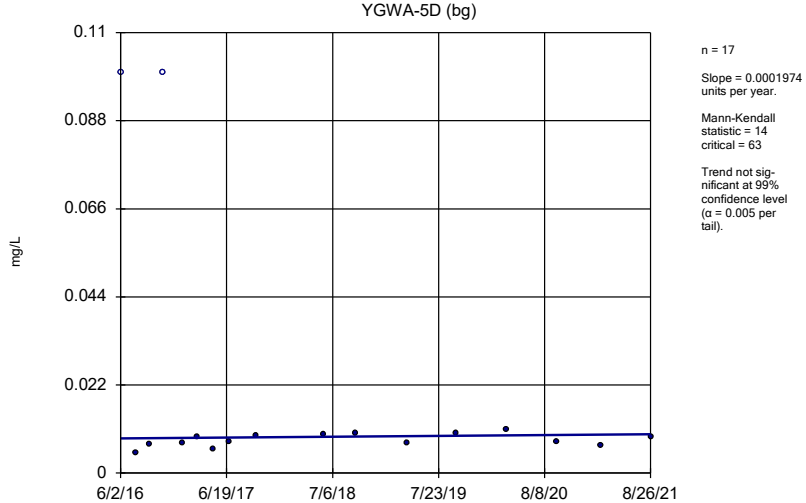
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 17

Slope = 0.0001974 units per year.

Mann-Kendall statistic = 14
critical = 63

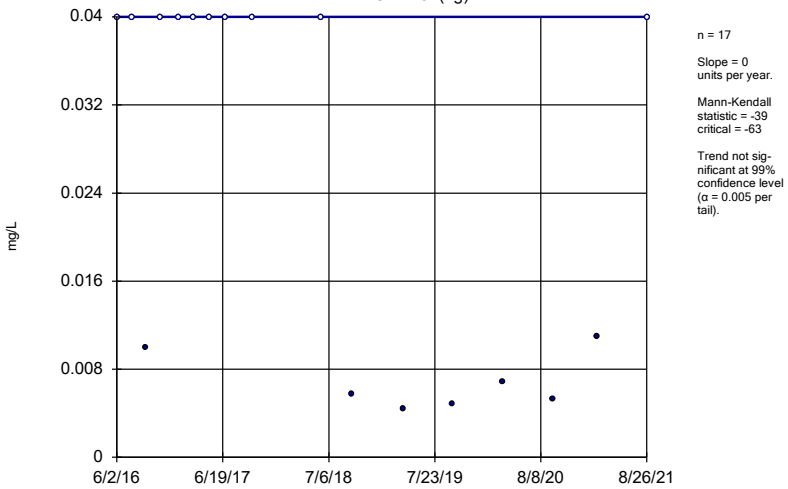
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -39
critical = -63

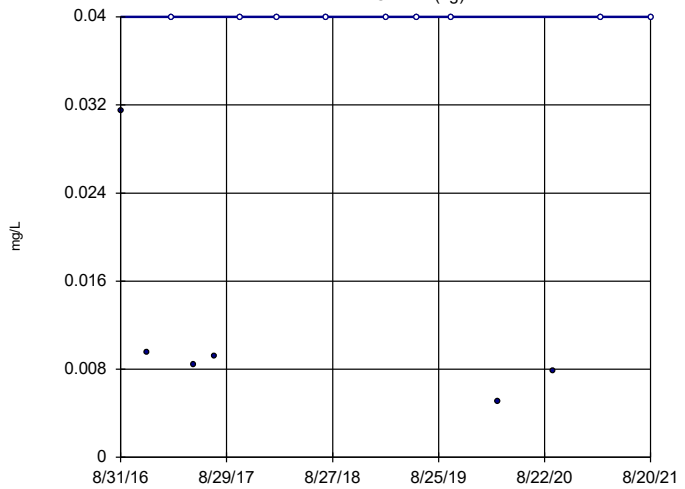
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 15

Slope = 0 units per year.

Mann-Kendall statistic = 11
critical = 53

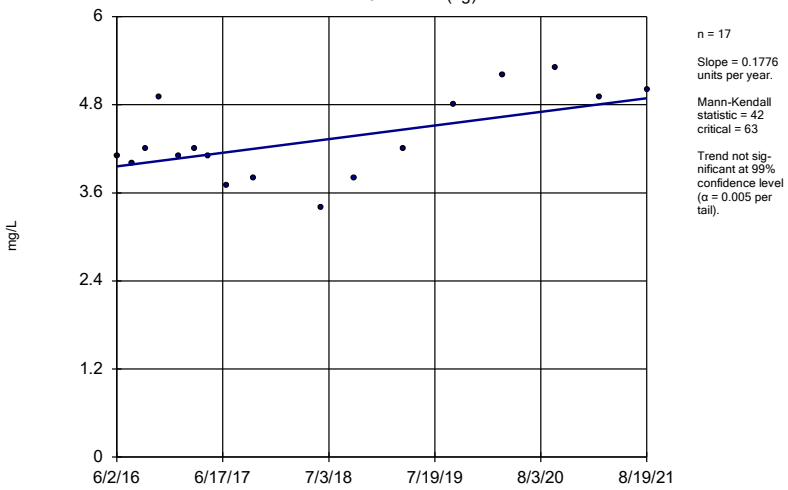
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 17

Slope = 0.1776 units per year.

Mann-Kendall statistic = 42
critical = 63

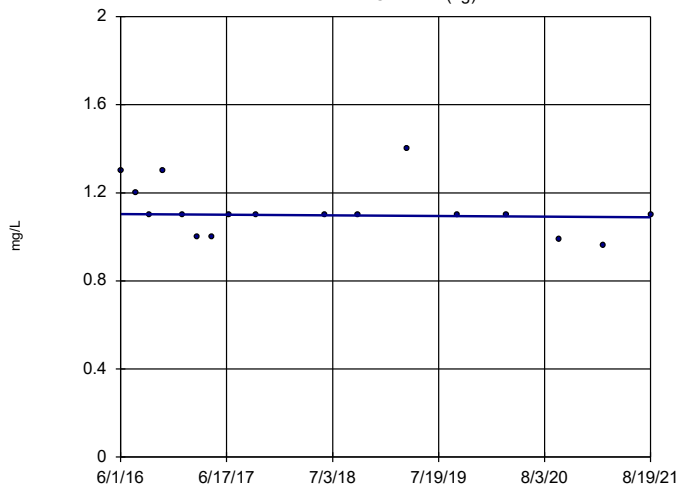
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 17

Slope = -0.002869 units per year.

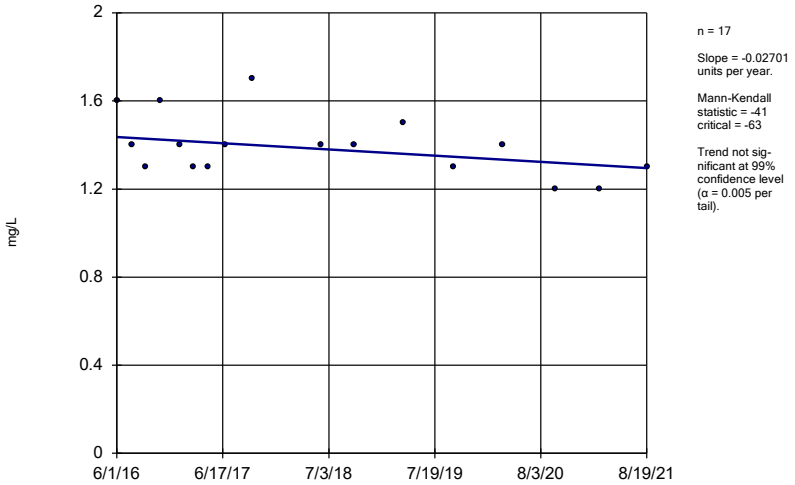
Mann-Kendall statistic = -40
critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-1I (bg)



n = 17

Slope = -0.02701 units per year.

Mann-Kendall statistic = -41
critical = -63

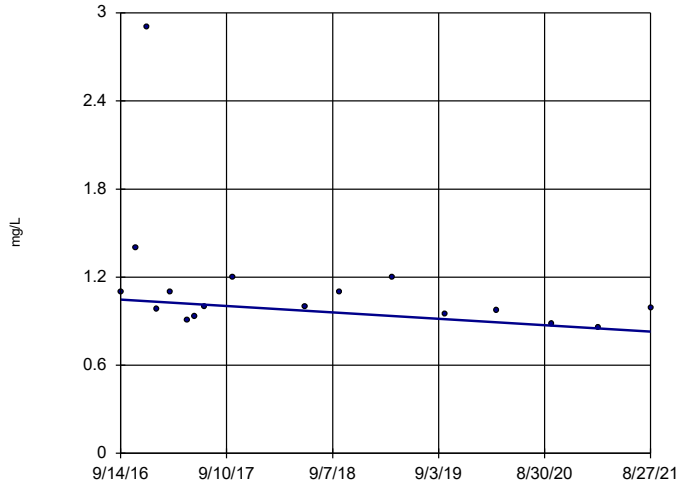
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 17

Slope = -0.04401 units per year.

Mann-Kendall statistic = -47
critical = -63

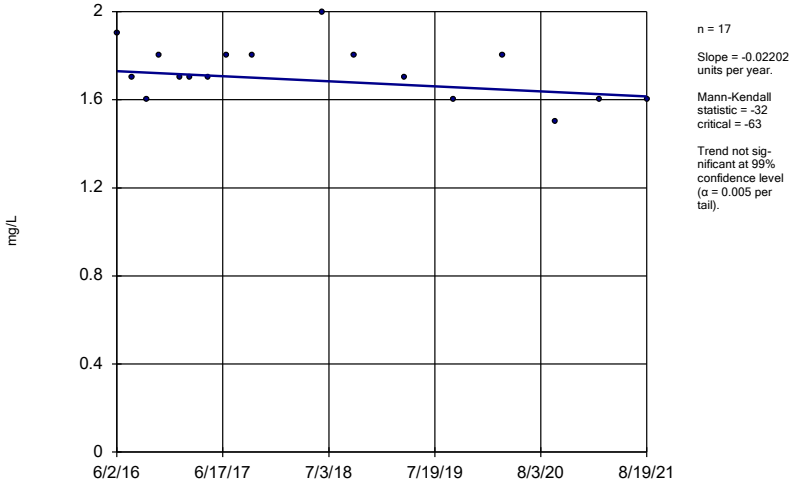
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-30I (bg)



n = 17

Slope = -0.02202 units per year.

Mann-Kendall statistic = -32
critical = -63

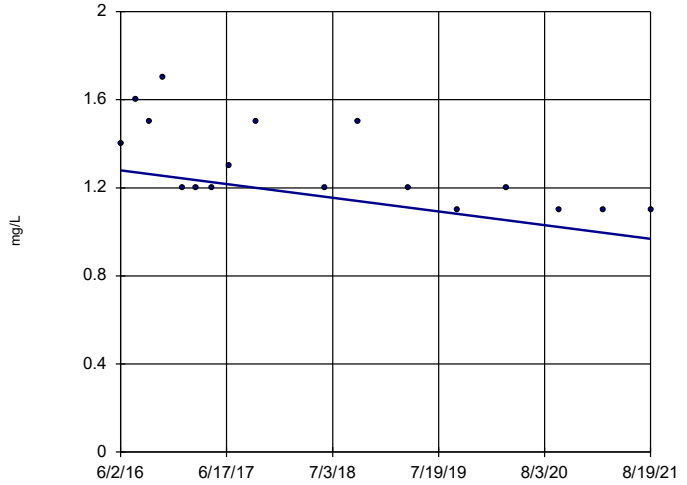
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 17

Slope = -0.05961 units per year.

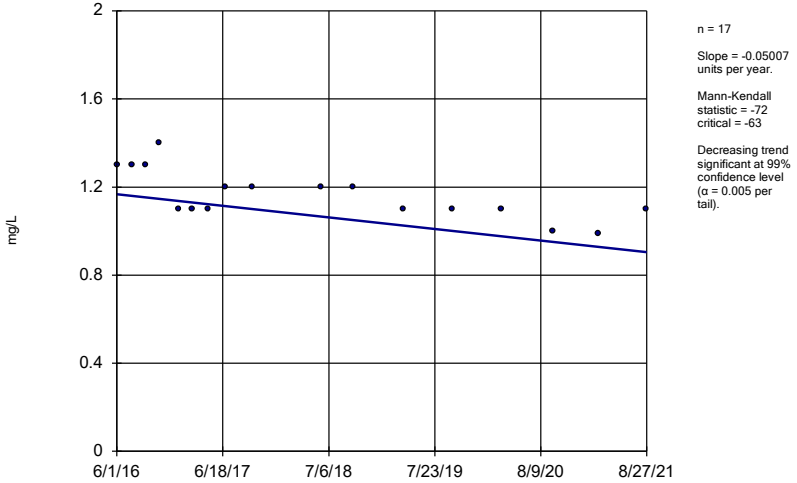
Mann-Kendall statistic = -72
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3I (bg)



n = 17

Slope = -0.05007 units per year.

Mann-Kendall statistic = -72
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

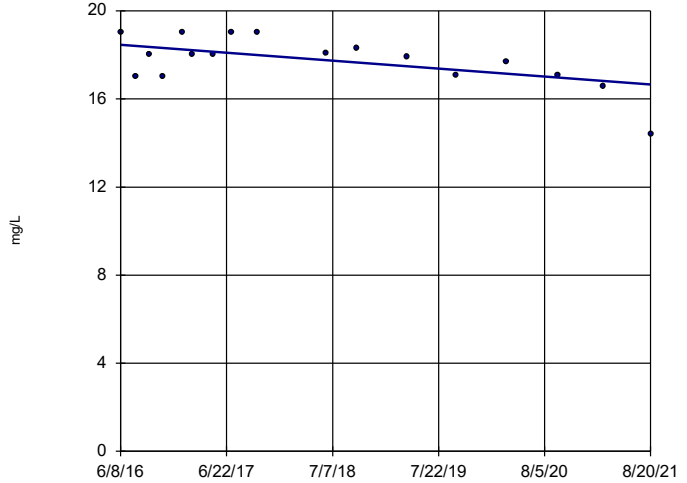
Constituent: Chloride Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-26I



n = 17

Slope = -0.3473 units per year.

Mann-Kendall statistic = -49
critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

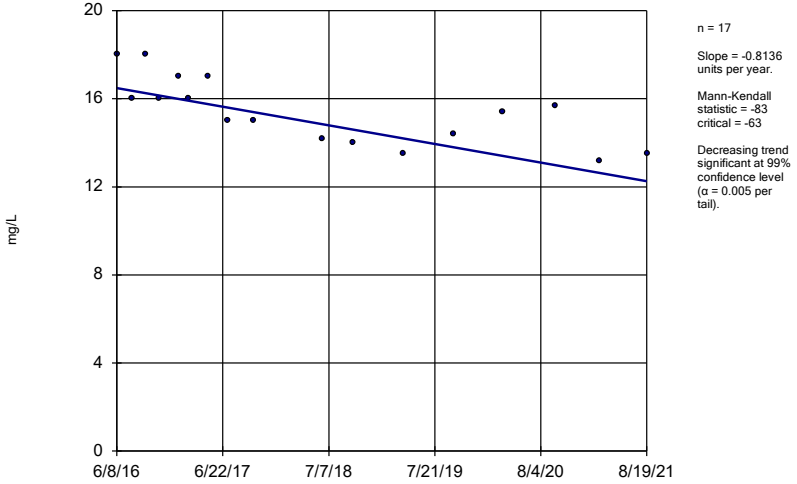
Constituent: Chloride Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-26S



n = 17

Slope = -0.8136 units per year.

Mann-Kendall statistic = -83
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

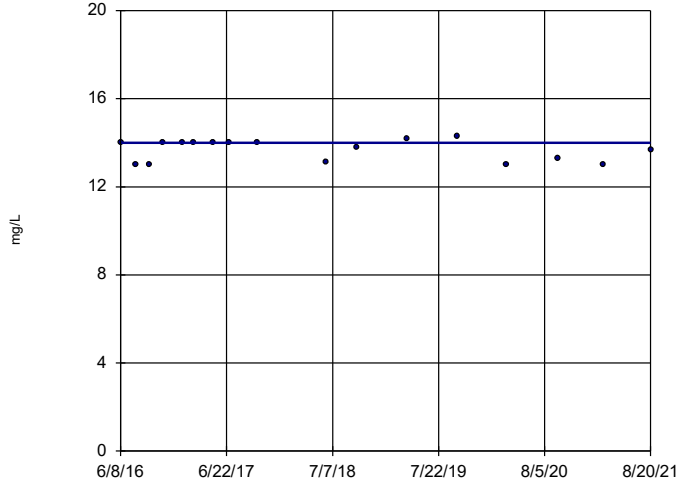
Constituent: Chloride Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-27I



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -9
critical = -63

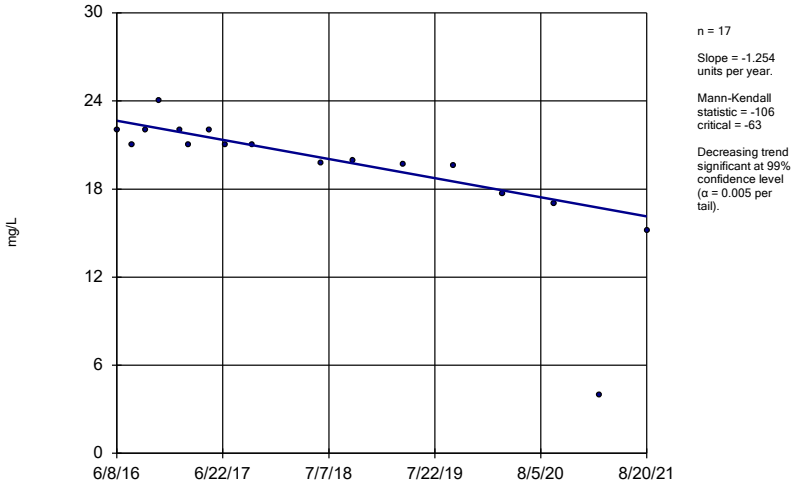
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-27S



n = 17

Slope = -1.254 units per year.

Mann-Kendall statistic = -106
critical = -63

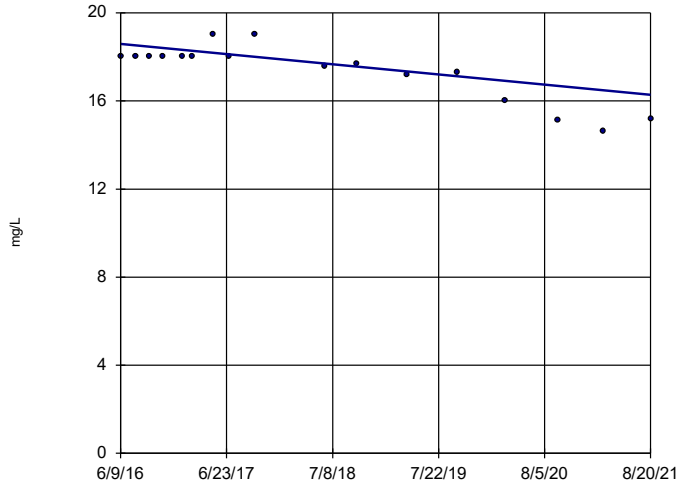
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-28I



n = 17

Slope = -0.4434 units per year.

Mann-Kendall statistic = -80
critical = -63

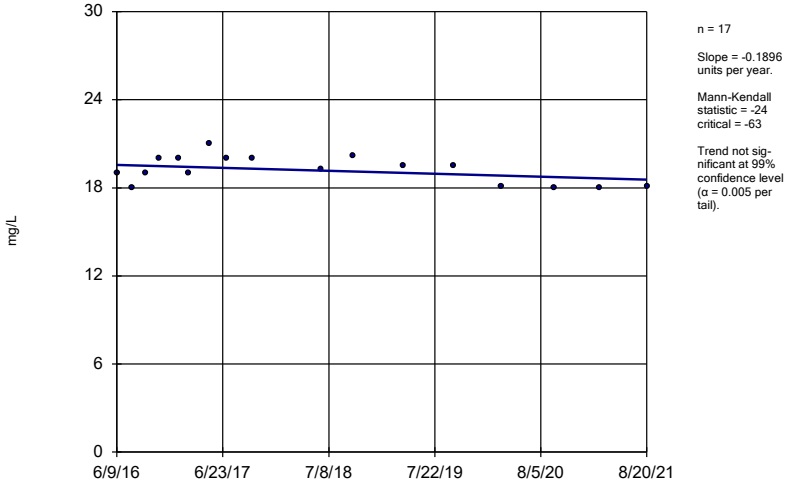
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-28S



n = 17

Slope = -0.1896 units per year.

Mann-Kendall statistic = -24
critical = -63

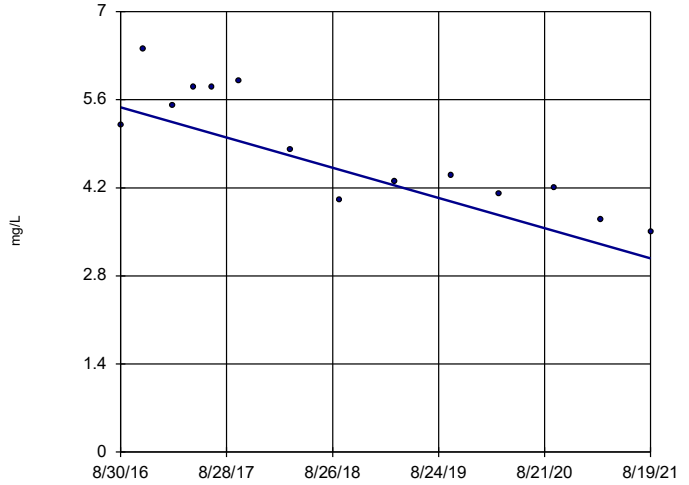
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 14

Slope = -0.4824 units per year.

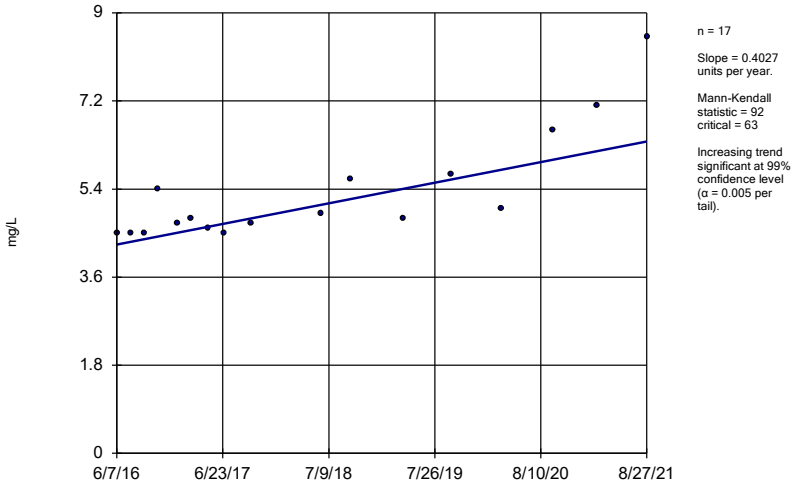
Mann-Kendall statistic = -58
critical = -48

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-17S (bg)



n = 17

Slope = 0.4027 units per year.

Mann-Kendall statistic = 92
critical = 63

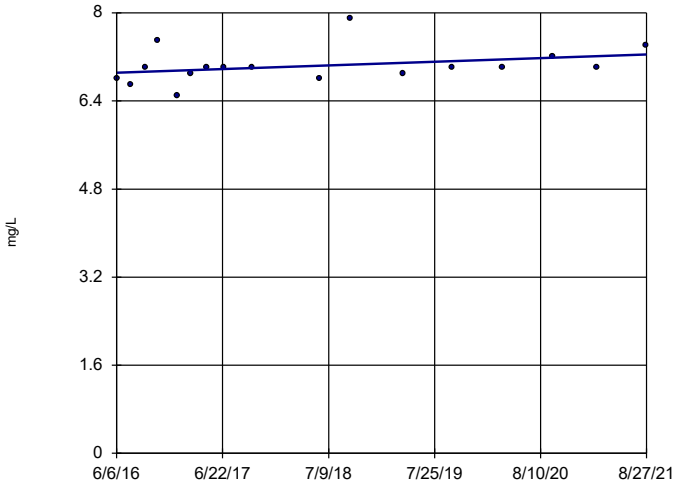
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18I (bg)



n = 17

Slope = 0.06344 units per year.

Mann-Kendall statistic = 47
critical = 63

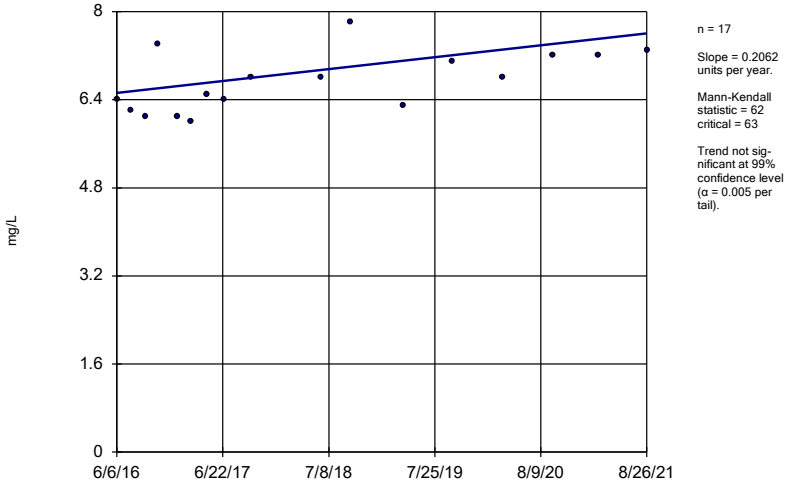
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 17

Slope = 0.2062 units per year.

Mann-Kendall statistic = 62
critical = 63

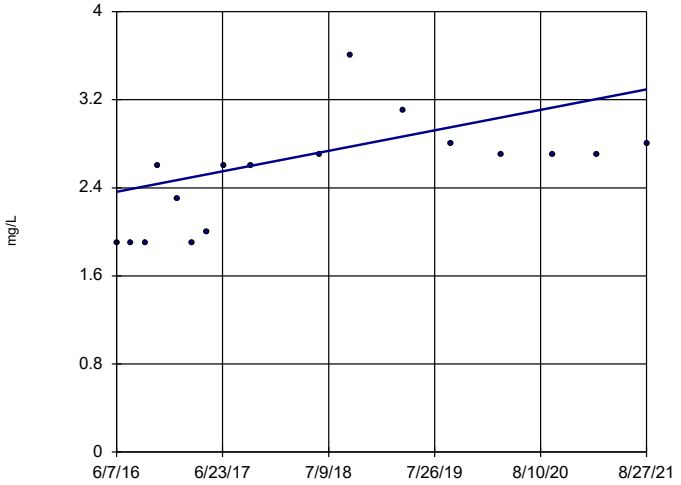
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-20S (bg)



n = 17

Slope = 0.1782 units per year.

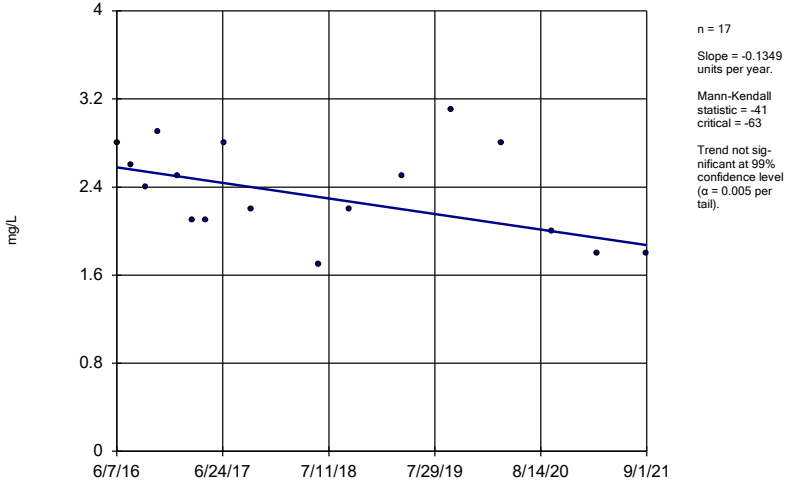
Mann-Kendall statistic = 82
critical = 63

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-21I (bg)



n = 17

Slope = -0.1349 units per year.

Mann-Kendall statistic = -41 critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

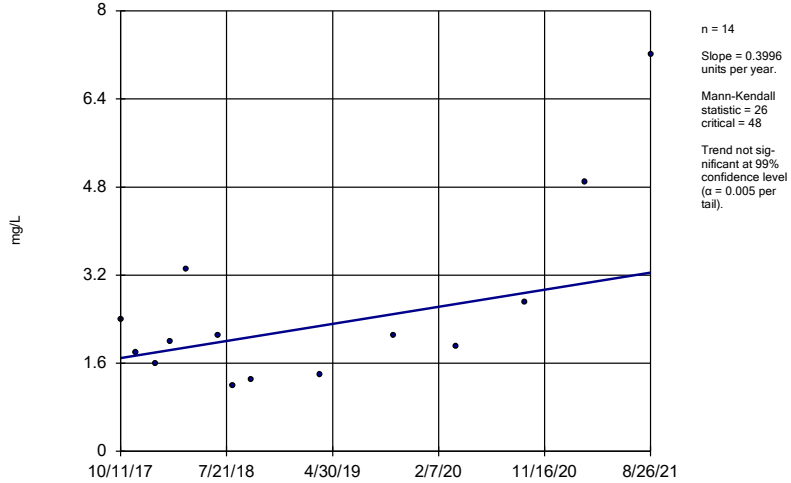
Constituent: Chloride Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 14

Slope = 0.3996 units per year.

Mann-Kendall statistic = 26 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

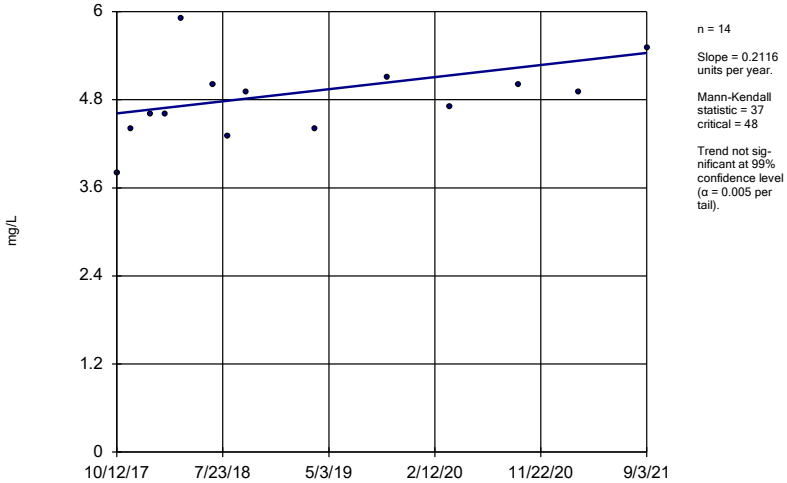
Constituent: Chloride Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 14

Slope = 0.2116 units per year.

Mann-Kendall statistic = 37 critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

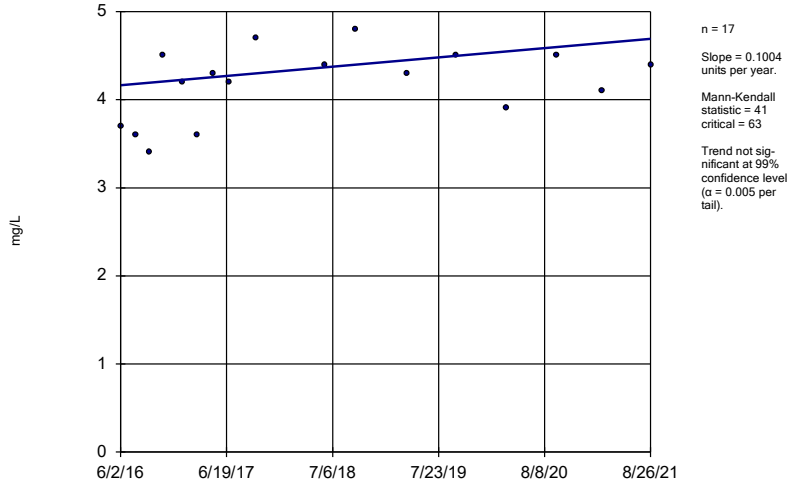
Constituent: Chloride Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 17

Slope = 0.1004 units per year.

Mann-Kendall statistic = 41 critical = 63

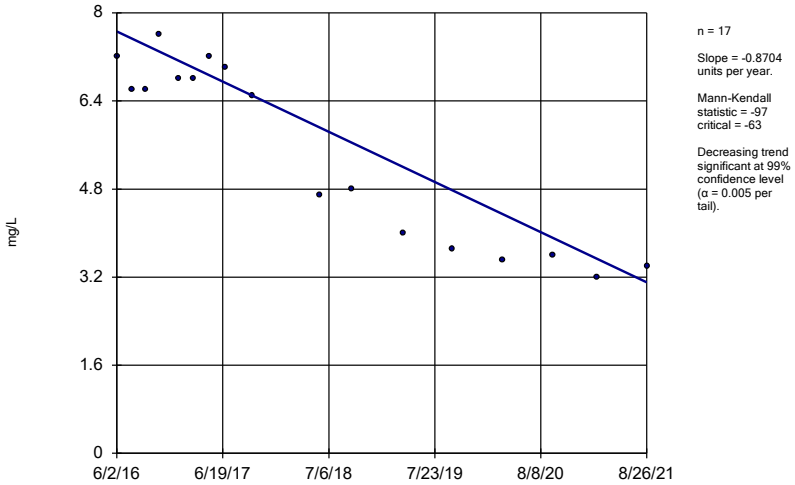
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-5D (bg)



n = 17

Slope = -0.8704 units per year.

Mann-Kendall statistic = -97 critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

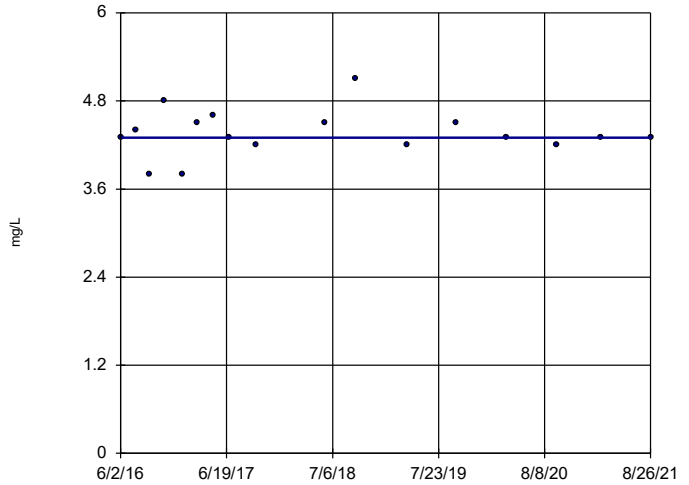
Constituent: Chloride Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -3 critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

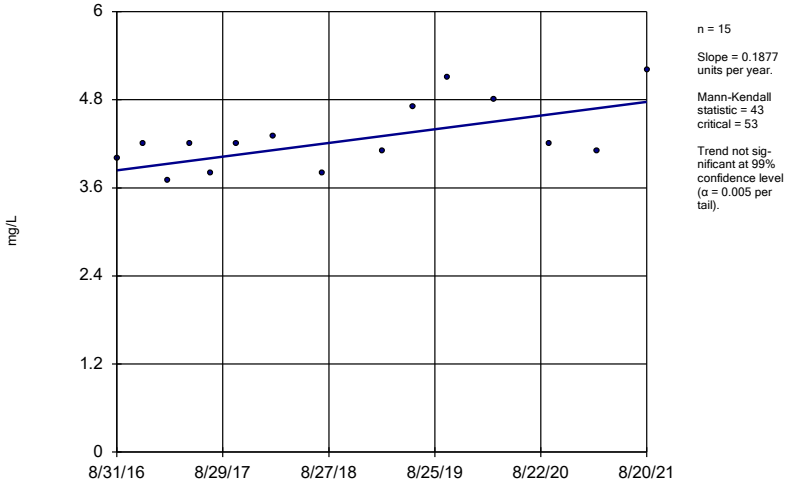
Constituent: Chloride Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWA-2 (bg)



n = 15

Slope = 0.1877 units per year.

Mann-Kendall statistic = 43 critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

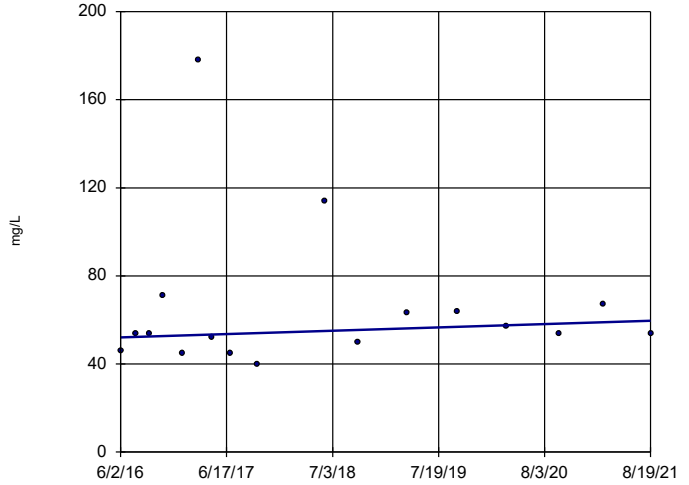
Constituent: Chloride Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 17

Slope = 1.46 units per year.

Mann-Kendall statistic = 17 critical = 63

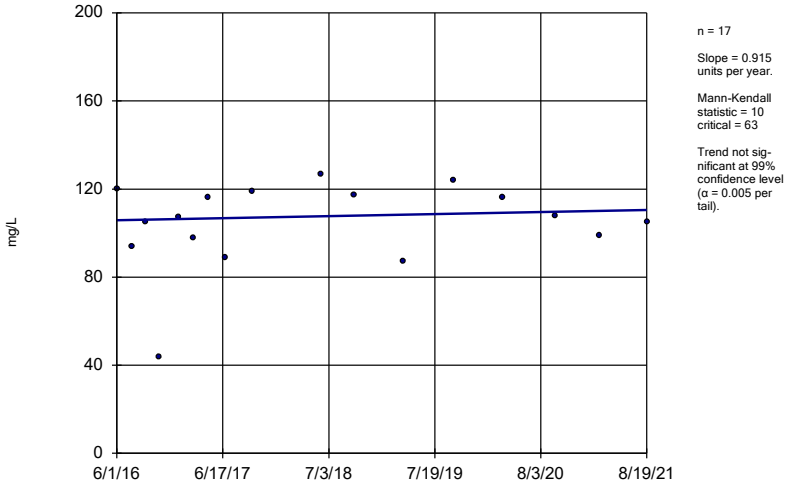
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-1D (bg)



n = 17

Slope = 0.915 units per year.

Mann-Kendall statistic = 10 critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

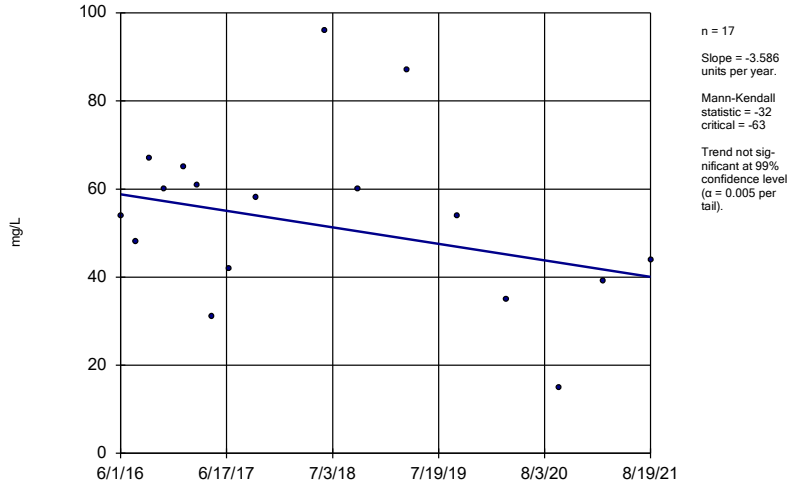
Constituent: Total Dissolved Solids Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1I (bg)



n = 17

Slope = -3.586 units per year.

Mann-Kendall statistic = -32 critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

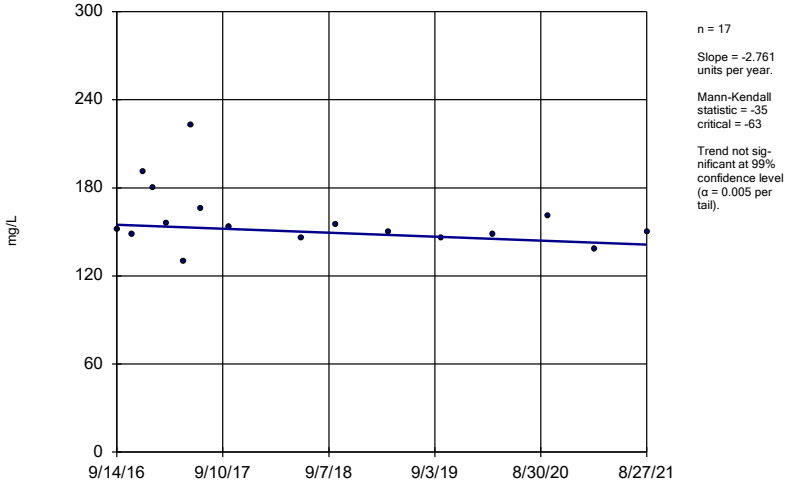
Constituent: Total Dissolved Solids Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 17

Slope = -2.761 units per year.

Mann-Kendall statistic = -35 critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

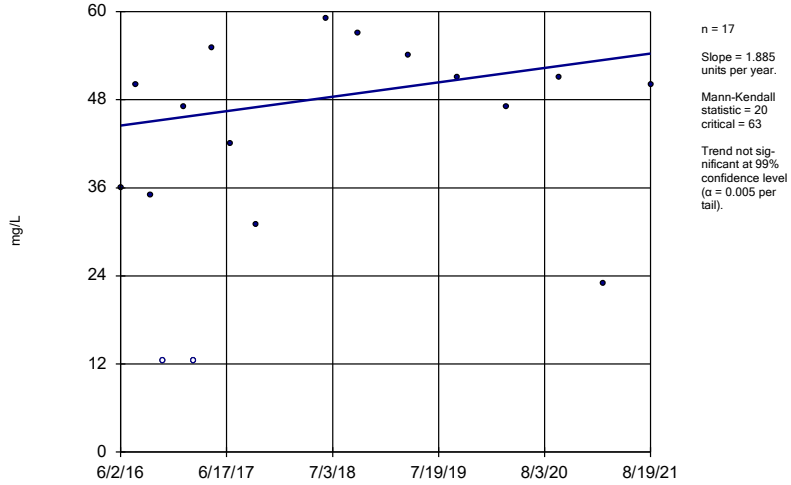
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 17

Slope = 1.885 units per year.

Mann-Kendall statistic = 20 critical = 63

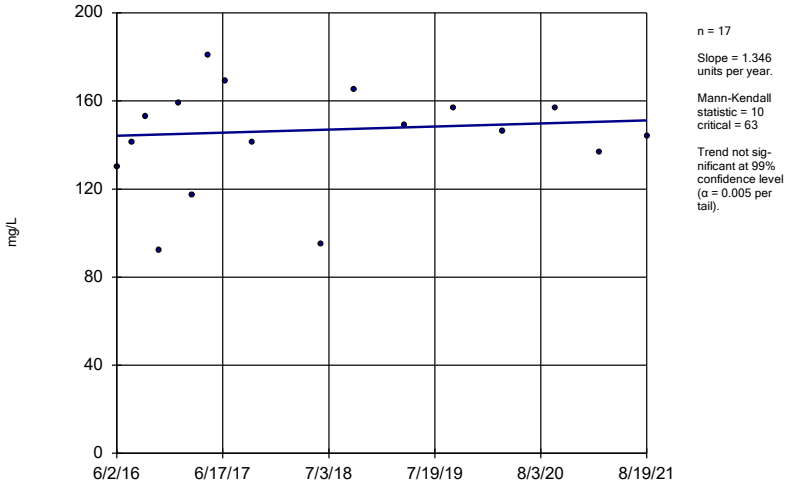
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3D (bg)



n = 17

Slope = 1.346 units per year.

Mann-Kendall statistic = 10 critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

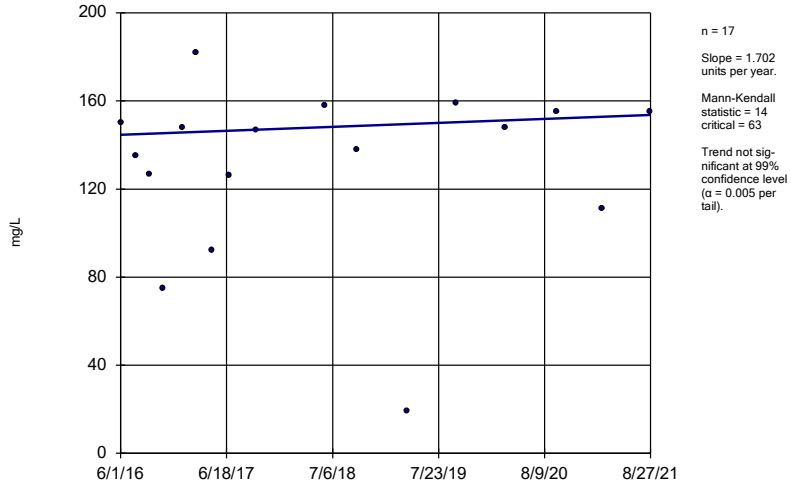
Constituent: Total Dissolved Solids Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 17

Slope = 1.702 units per year.

Mann-Kendall statistic = 14 critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

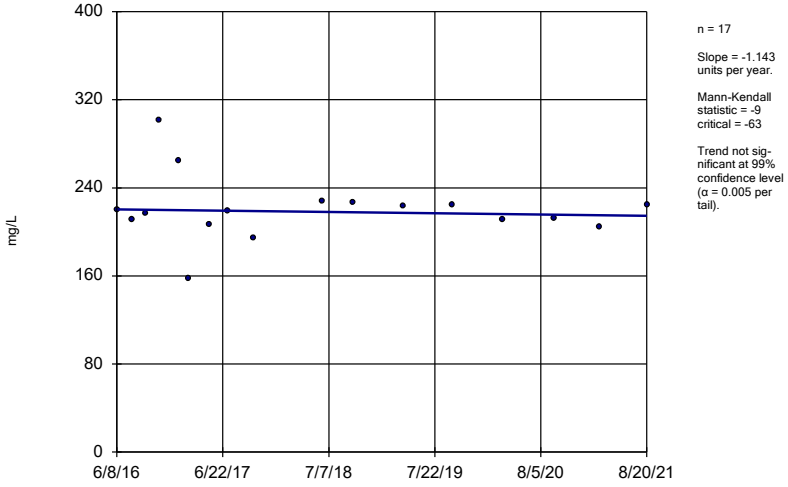
Constituent: Total Dissolved Solids Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWC-26I



n = 17

Slope = -1.143 units per year.

Mann-Kendall statistic = -9 critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

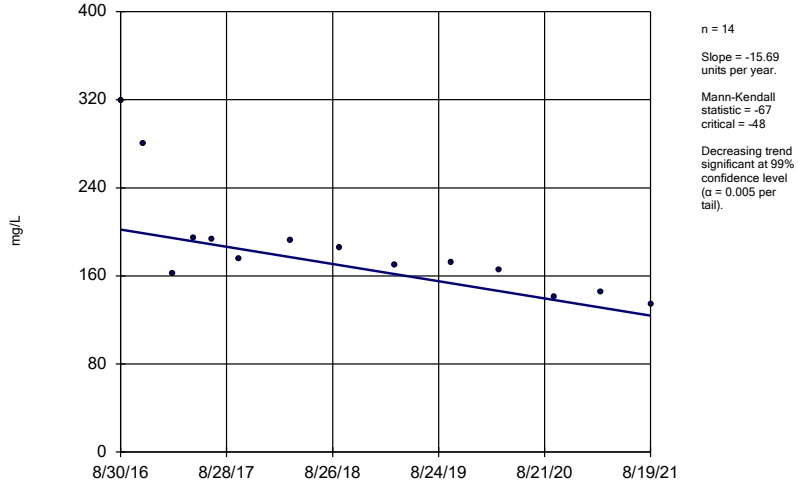
Constituent: Total Dissolved Solids Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 14

Slope = -15.69 units per year.

Mann-Kendall statistic = -67 critical = -48

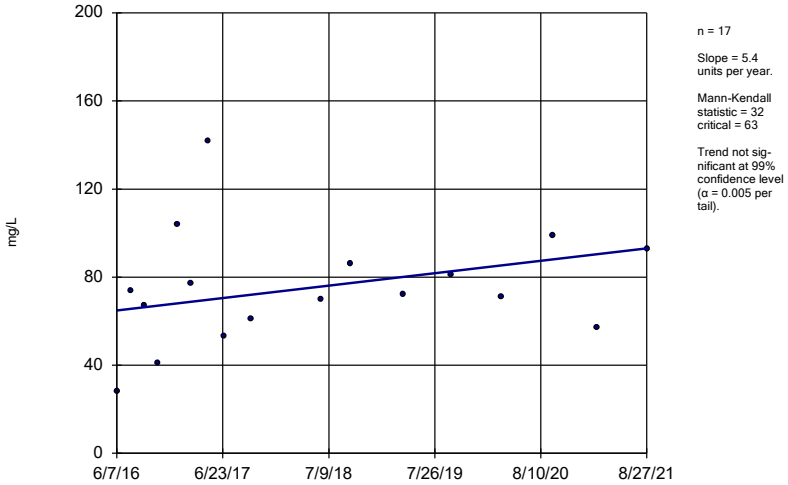
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-17S (bg)



n = 17

Slope = 5.4 units per year.

Mann-Kendall statistic = 32
critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

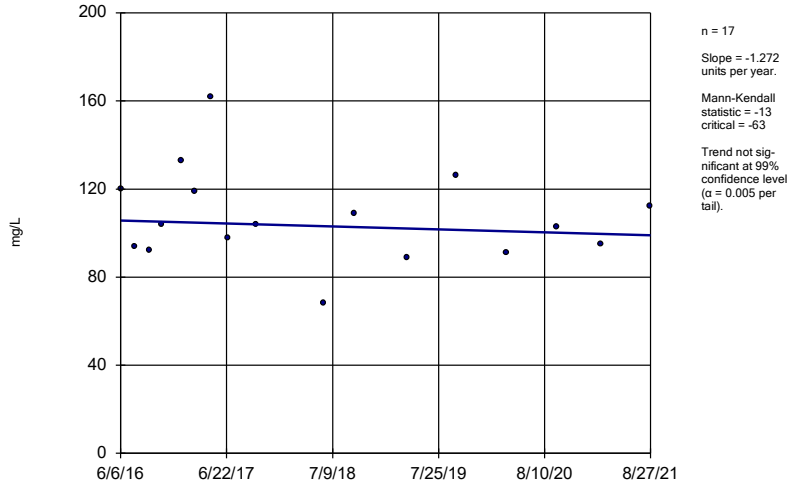
Constituent: Total Dissolved Solids Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18I (bg)



n = 17

Slope = -1.272 units per year.

Mann-Kendall statistic = -13
critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

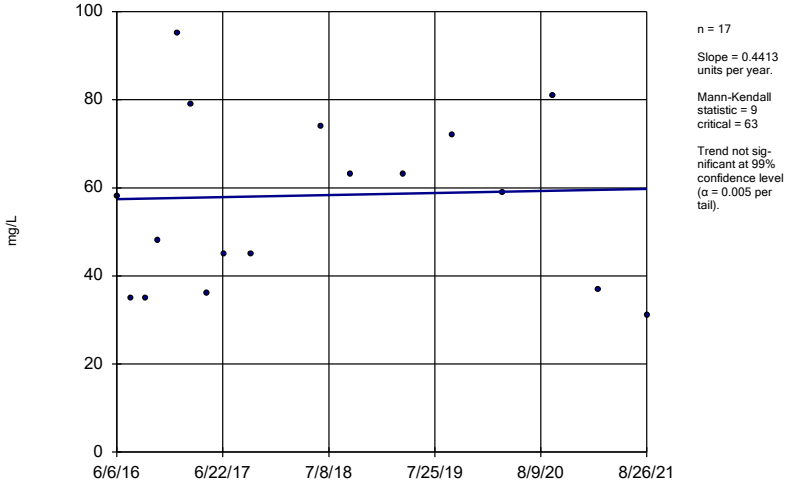
Constituent: Total Dissolved Solids Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 17

Slope = 0.4413 units per year.

Mann-Kendall statistic = 9
critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

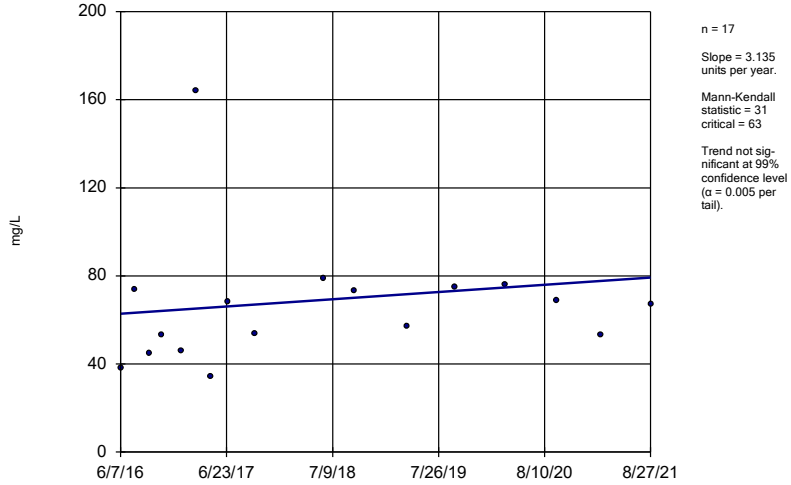
Constituent: Total Dissolved Solids Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-20S (bg)



n = 17

Slope = 3.135 units per year.

Mann-Kendall statistic = 31
critical = 63

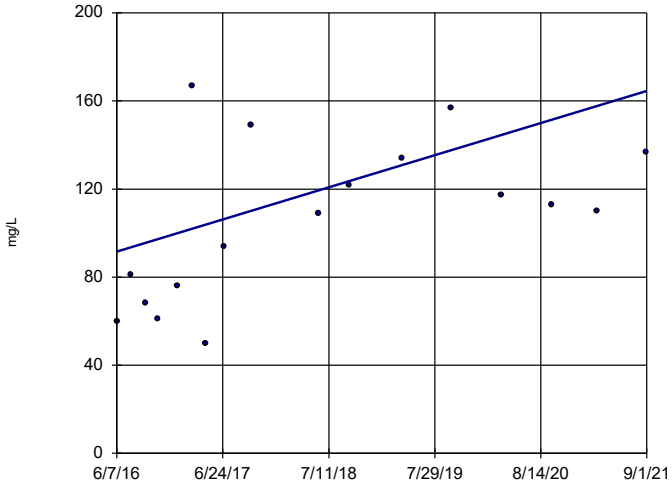
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-21I (bg)



n = 17

Slope = 13.94 units per year.

Mann-Kendall statistic = 56
critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

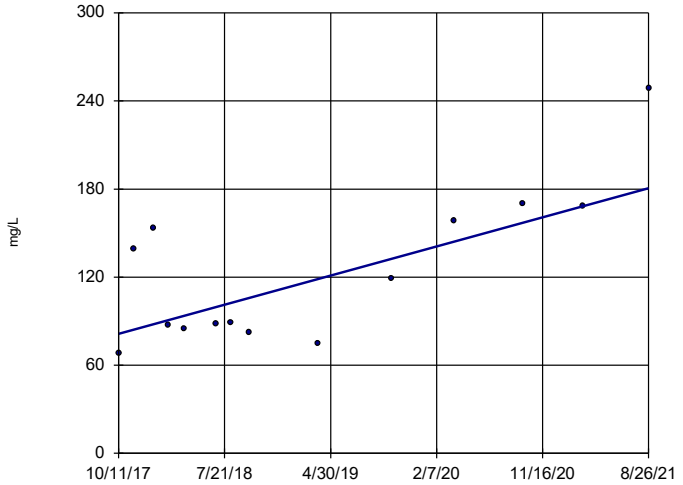
Constituent: Total Dissolved Solids Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 14

Slope = 25.58 units per year.

Mann-Kendall statistic = 41
critical = 48

Trend not significant at 99% confidence level (α = 0.005 per tail).

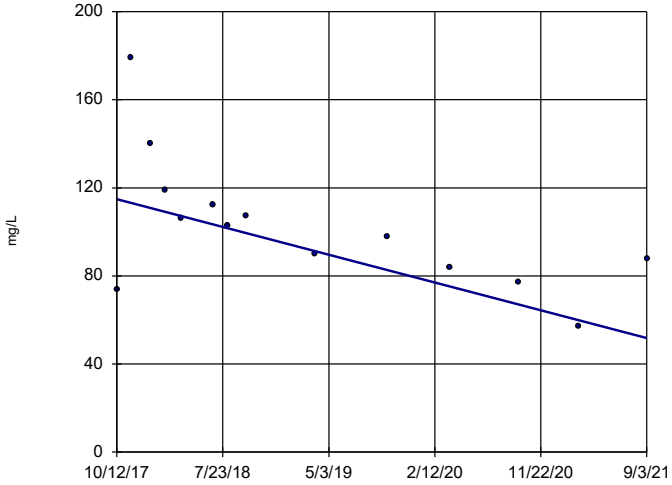
Constituent: Total Dissolved Solids Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 14

Slope = -16.17 units per year.

Mann-Kendall statistic = -53
critical = -48

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

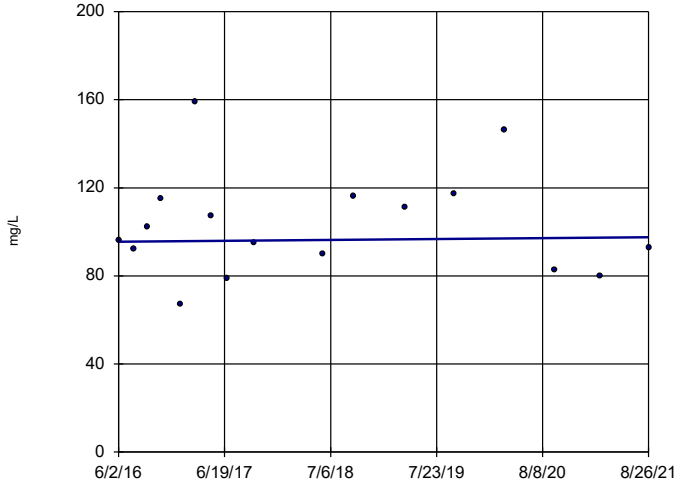
Constituent: Total Dissolved Solids Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 17

Slope = 0.3992 units per year.

Mann-Kendall statistic = 4
critical = 63

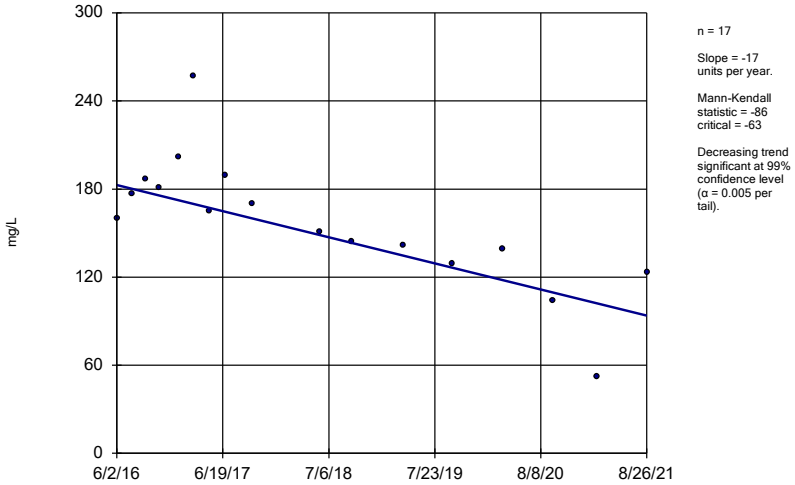
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-5D (bg)



n = 17

Slope = -17 units per year.

Mann-Kendall statistic = -86
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

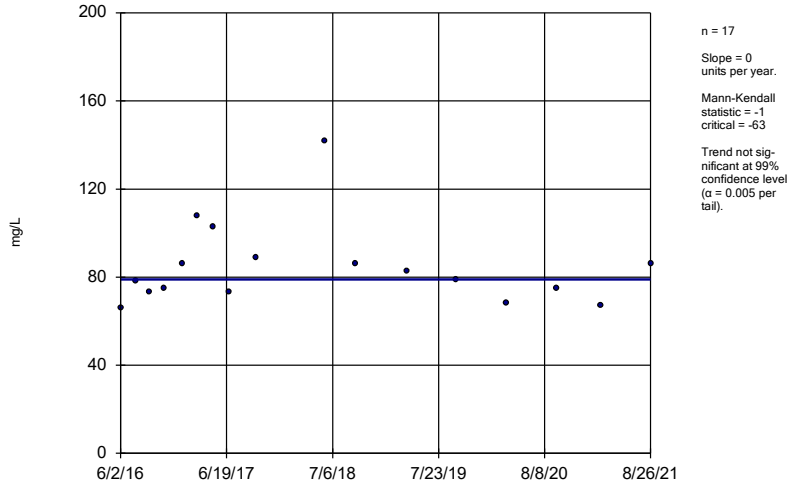
Constituent: Total Dissolved Solids Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = -1
critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

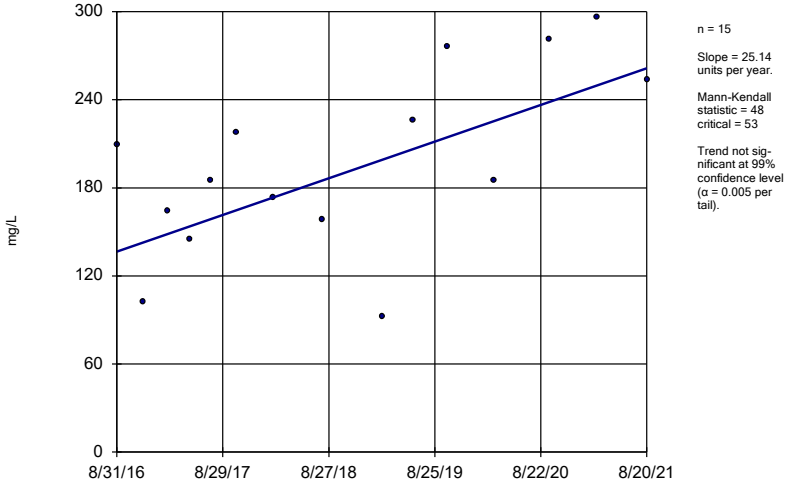
Constituent: Total Dissolved Solids Analysis Run 10/30/2021 2:33 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWA-2 (bg)



n = 15

Slope = 25.14 units per year.

Mann-Kendall statistic = 48
critical = 53

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 10/30/2021 2:33 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 10/30/2021, 3:28 PM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0047	n/a	n/a	n/a	334	n/a	n/a	86.83	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	382	n/a	n/a	78.8	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.071	n/a	n/a	n/a	382	n/a	n/a	2.88	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	366	n/a	n/a	80.87	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0005	n/a	n/a	n/a	366	n/a	n/a	95.63	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0093	n/a	n/a	n/a	334	n/a	n/a	78.74	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	378	n/a	n/a	69.31	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	6.92	n/a	n/a	n/a	361	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	381	n/a	n/a	67.98	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	336	n/a	n/a	83.63	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	361	n/a	n/a	27.15	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	n/a	0.0002	n/a	n/a	n/a	290	n/a	n/a	93.1	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	325	n/a	n/a	60	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	364	n/a	n/a	92.03	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	300	n/a	n/a	96.67	n/a	n/a	NaN	NP Inter(NDs)

FIGURE G.

YATES ASH POND 2 GWPS					
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**Federal GWPS**	**State GWPS**
Antimony, Total (mg/L)	0.006		0.0047	0.006	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01	0.01
Barium, Total (mg/L)	2		0.071	2	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004	0.004
Cadmium, Total (mg/L)	0.005		0.0005	0.005	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4	4
Lead, Total (mg/L)		0.015	0.0013	0.015	0.0013
Lithium, Total (mg/L)		0.04	0.03	0.04	0.03
Mercury, Total (mg/L)	0.002		0.0002	0.002	0.002
Molybdenum, Total (mg/L)		0.1	0.014	0.1	0.014
Selenium, Total (mg/L)	0.05		0.005	0.05	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002	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.

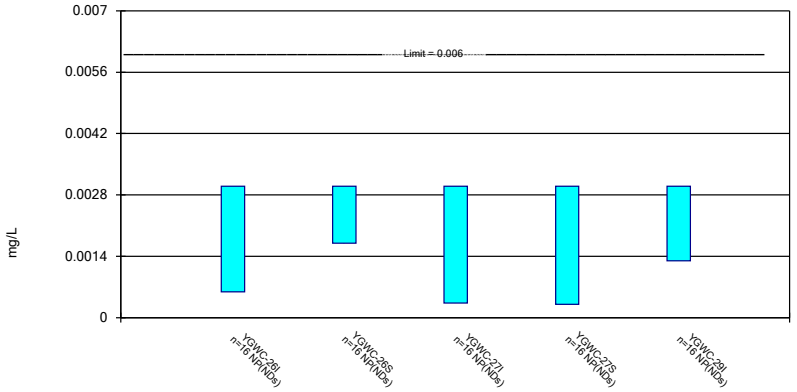
Federal Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/31/2021, 4:04 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	16	0.002694	0.0008352	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No	16	0.002831	0.0004615	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.00033	0.006	No	16	0.002833	0.0006675	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No	16	0.002831	0.000675	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29I	0.003	0.0013	0.006	No	16	0.002894	0.000425	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.0006	0.01	No	20	0.003272	0.002175	60	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.0007	0.01	No	20	0.003275	0.002168	60	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06622	0.06269	2	No	20	0.06446	0.003116	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02881	0.02628	2	No	20	0.02755	0.002228	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.08	0.063	2	No	20	0.06972	0.007677	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-27S	0.1039	0.0922	2	No	20	0.09807	0.01032	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28I	0.08972	0.08359	2	No	20	0.08666	0.005406	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28S	0.2227	0.1956	2	No	20	0.2045	0.03853	0	None	x^3	0.01	Param.
Barium (mg/L)	YGWC-29I	0.0741	0.057	2	No	20	0.07329	0.03326	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-26S	0.0002	0.0001	0.004	No	18	0.0001871	0.0001214	11.11	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.00023	0.00013	0.004	No	18	0.0002287	0.000133	16.67	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27S	0.0005	0.00011	0.004	No	18	0.0004542	0.0001334	88.89	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.0005	0.0001	0.005	No	18	0.0002433	0.0001738	11.11	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28S	0.0005	0.00048	0.005	No	18	0.0004989	0.000004714	94.44	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29I	0.0002269	0.000133	0.005	No	18	0.0002561	0.0001283	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	YGWC-26I	0.005	0.00065	0.1	No	18	0.003302	0.002181	55.56	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002168	0.001036	0.1	No	18	0.002444	0.001669	16.67	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	YGWC-27I	0.012	0.005	0.1	No	18	0.005389	0.00165	94.44	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-27S	0.015	0.0027	0.1	No	18	0.004636	0.003098	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.0005	0.1	No	18	0.004245	0.001737	83.33	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.0006	0.1	No	18	0.004255	0.001714	83.33	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.005	0.0005	0.1	No	18	0.00475	0.001061	94.44	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002726	0.001852	0.035	No	20	0.00233	0.0008436	5	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.01556	0.003277	0.035	No	20	0.01786	0.02632	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.0026	0.0022	0.035	No	20	0.002485	0.0006343	5	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	20	0.004771	0.001024	95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0012	0.00092	0.035	No	20	0.001401	0.001238	10	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.005	0.00094	0.035	No	20	0.003903	0.001952	75	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.033	0.4988	6.92	No	19	0.8084	0.5034	5.263	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.8674	0.542	6.92	No	20	0.7047	0.2866	5	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	3.969	2.649	6.92	No	20	3.309	1.163	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.054	0.6533	6.92	No	20	0.8539	0.3532	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.8302	0.4395	6.92	No	20	0.6348	0.344	5	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9422	0.5182	6.92	No	20	0.7302	0.3734	5	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.121	0.7006	6.92	No	20	0.9107	0.37	5	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.06	4	No	21	0.08333	0.02085	42.86	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.044	4	No	21	0.1316	0.09704	71.43	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.1	0.07	4	No	21	0.09205	0.02537	57.14	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27S	0.198	0.0988	4	No	21	0.1609	0.1027	19.05	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.14	0.078	4	No	21	0.126	0.08016	23.81	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2617	0.1525	4	No	21	0.2071	0.09897	9.524	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.09347	0.05957	4	No	21	0.08729	0.03064	33.33	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	YGWC-26I	0.001	0.000059	0.015	No	16	0.0008819	0.0003228	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.001	0.000064	0.015	No	16	0.0007094	0.0004453	68.75	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.001	0.0002	0.015	No	16	0.0007748	0.0003672	62.5	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.001	0.000063	0.015	No	16	0.0007071	0.0004487	68.75	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29I	0.001	0.00016	0.015	No	16	0.0008326	0.0003604	81.25	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007173	0.006577	0.04	No	20	0.006875	0.000524	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.01022	0.007926	0.04	No	20	0.009075	0.002024	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.0013	0.04	No	20	0.02711	0.008909	90	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.007056	0.006654	0.04	No	20	0.006855	0.0003531	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.04	No	20	0.02876	0.005523	95	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29I	0.0066	0.0053	0.04	No	20	0.007145	0.005444	5	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-27I	0.01	0.0014	0.1	No	20	0.005855	0.004298	50	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.1	No	20	0.00519	0.004465	45	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00083	0.1	No	20	0.008144	0.003809	80	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29I	0.01	0.00083	0.1	No	20	0.009541	0.00205	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0031	0.0018	0.05	No	18	0.002483	0.001035	11.11	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	No	18	0.004128	0.001694	77.78	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	No	18	0.004789	0.0008957	94.44	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	No	18	0.004778	0.0009428	94.44	None	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

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

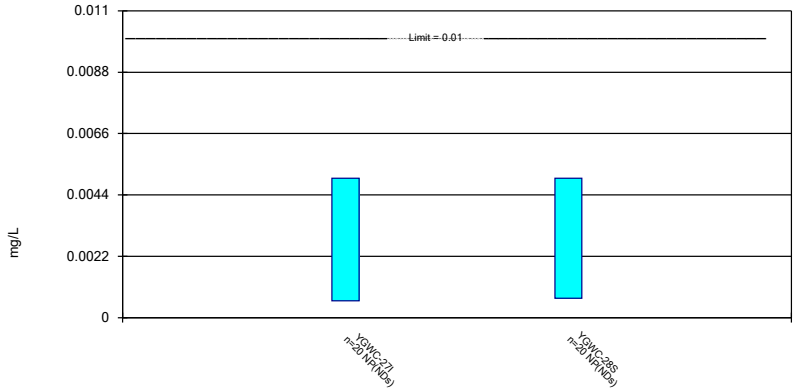


Constituent: Antimony Analysis Run 10/31/2021 4:02 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

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

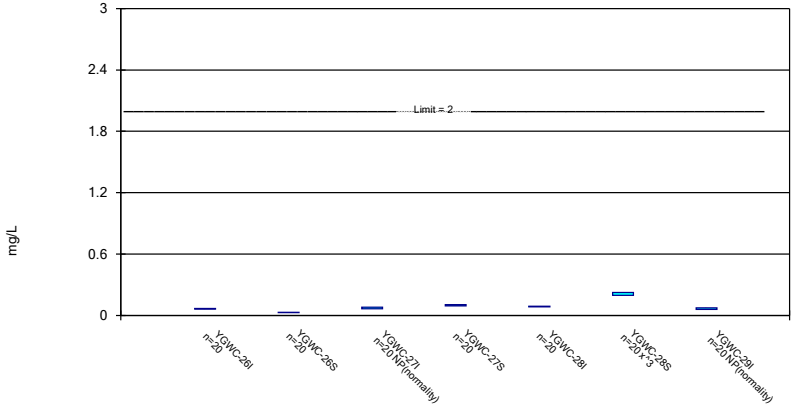


Constituent: Arsenic Analysis Run 10/31/2021 4:02 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

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

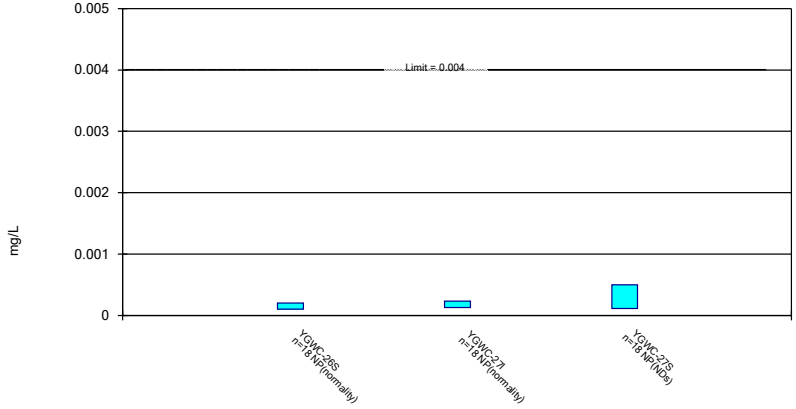


Constituent: Barium Analysis Run 10/31/2021 4:02 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

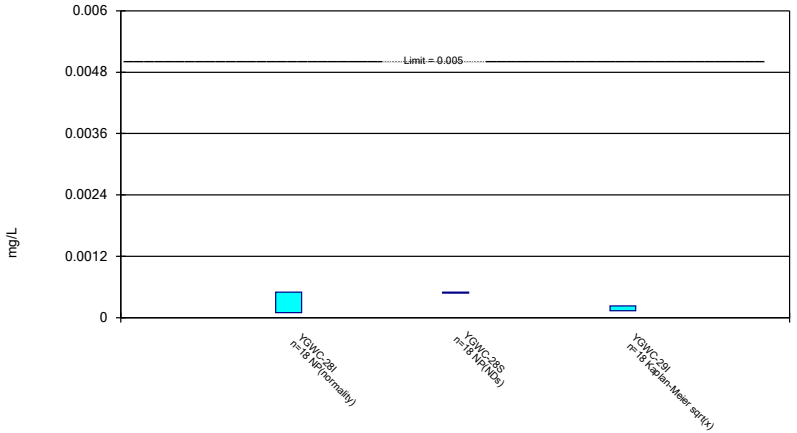
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 10/31/2021 4:02 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.

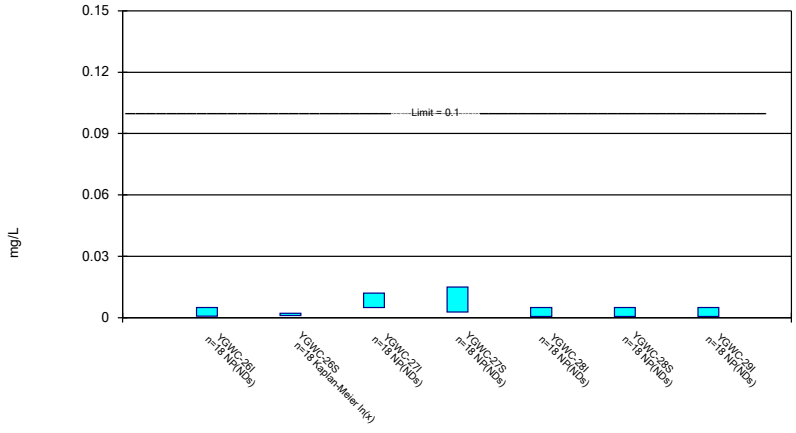


Constituent: Cadmium Analysis Run 10/31/2021 4:02 PM View: Appendix IV

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.

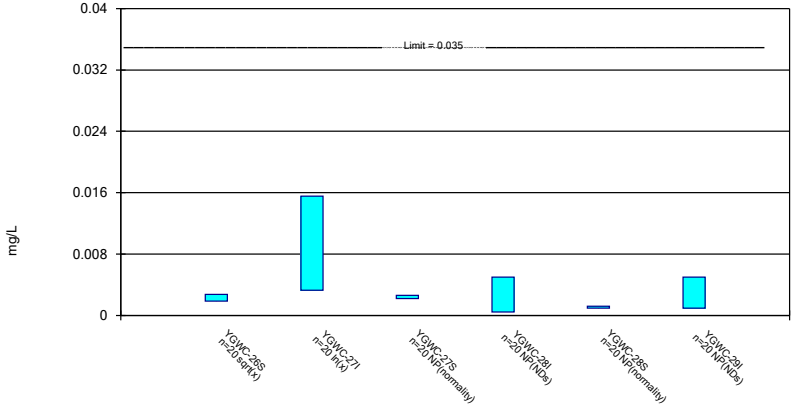


Constituent: Chromium Analysis Run 10/31/2021 4:02 PM View: Appendix IV

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.

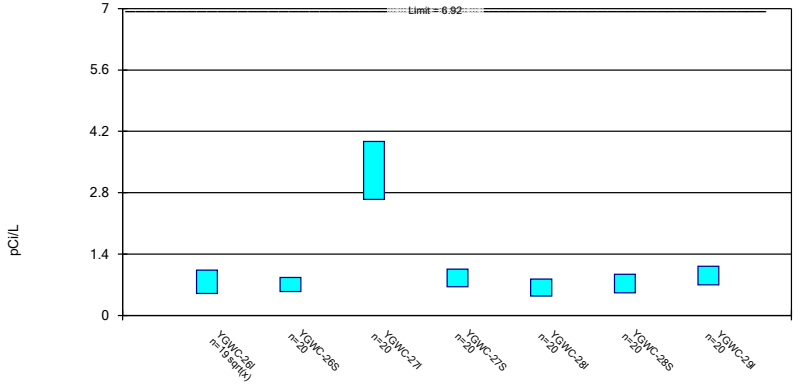


Constituent: Cobalt Analysis Run 10/31/2021 4:02 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric Confidence Interval

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

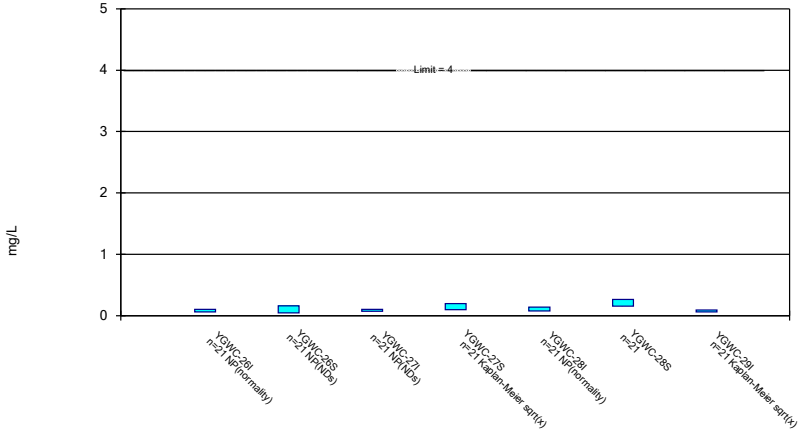


Constituent: Combined Radium 226 + 228 Analysis Run 10/31/2021 4:02 PM View: Appendix IV

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.

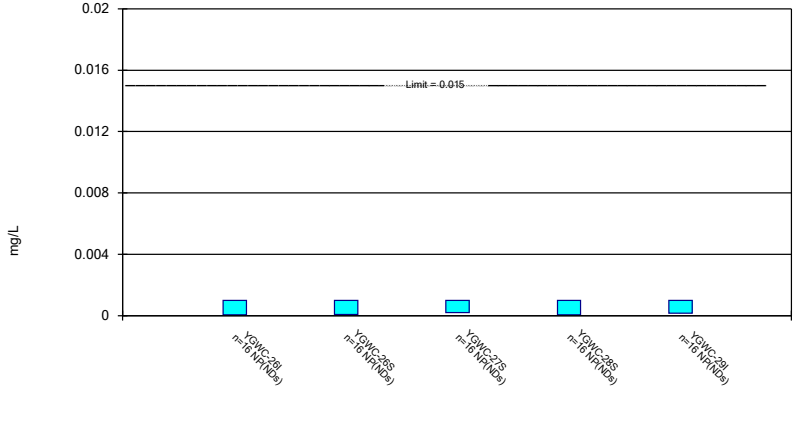


Constituent: Fluoride Analysis Run 10/31/2021 4:02 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

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

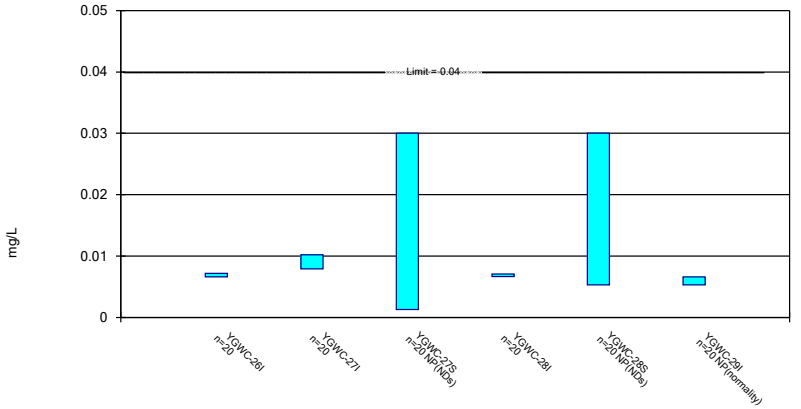


Constituent: Lead Analysis Run 10/31/2021 4:02 PM View: Appendix IV

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.

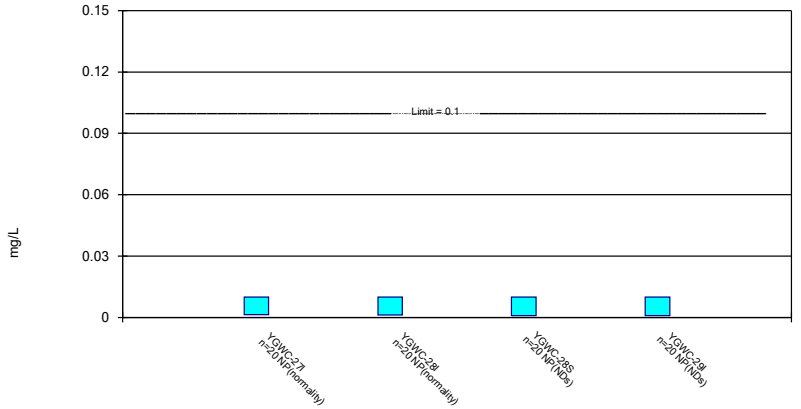


Constituent: Lithium Analysis Run 10/31/2021 4:02 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

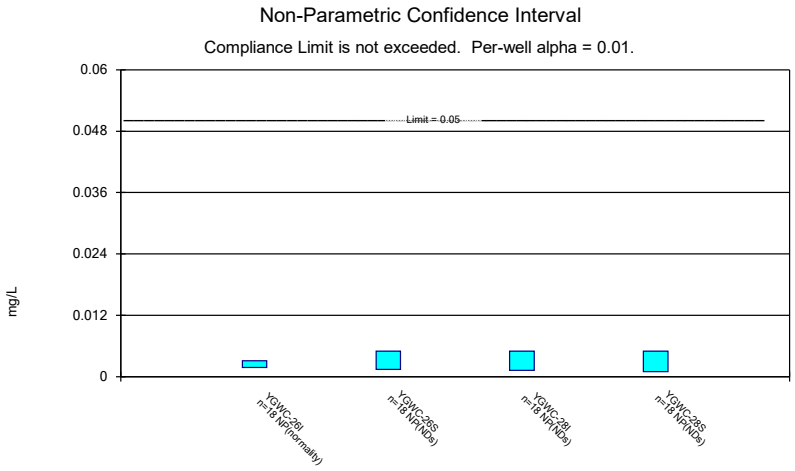
Non-Parametric Confidence Interval

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



Constituent: Molybdenum Analysis Run 10/31/2021 4:03 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Selenium Analysis Run 10/31/2021 4:03 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/31/2021 4:04 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
Mean	0.002694	0.002831	0.002833	0.002831	0.002894
Std. Dev.	0.0008352	0.0004615	0.0006675	0.000675	0.000425
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 10/31/2021 4:04 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27I	YGWC-28S
6/8/2016	0.0011 (J)	
6/9/2016		0.00094 (J)
8/1/2016	0.0009 (J)	
8/2/2016		<0.005
9/20/2016	<0.005	
9/21/2016		<0.005
11/7/2016	<0.005	<0.005
1/18/2017	<0.005	<0.005
2/21/2017		<0.005
2/23/2017	<0.005	
5/5/2017		<0.005
5/8/2017	0.0006 (J)	
6/30/2017	<0.005 (*)	
7/7/2017		0.0007 (J)
3/29/2018	0.0006 (J)	
3/30/2018		0.00069 (J)
6/12/2018		0.00075 (J)
6/13/2018	<0.005	
10/2/2018	<0.005	
10/3/2018		0.0007 (J)
2/27/2019	0.00069 (J)	<0.005
4/1/2019	<0.005	
4/2/2019		<0.005
9/26/2019	0.00058 (J)	0.00057 (J)
2/13/2020	0.00055 (J)	0.00065 (J)
3/19/2020		0.00051 (J)
3/20/2020	0.00042 (J)	
9/24/2020	<0.005	<0.005
2/10/2021	<0.005	
2/12/2021		<0.005
3/3/2021	<0.005	<0.005
8/20/2021	<0.005	<0.005
Mean	0.003272	0.003275
Std. Dev.	0.002175	0.002168
Upper Lim.	0.005	0.005
Lower Lim.	0.0006	0.0007

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/31/2021 4:04 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
Mean	0.06446	0.02755	0.06972	0.09807	0.08666	0.2045	0.07329
Std. Dev.	0.003116	0.002228	0.007677	0.01032	0.005406	0.03853	0.03326
Upper Lim.	0.06622	0.02881	0.08	0.1039	0.08972	0.2227	0.0741
Lower Lim.	0.06269	0.02628	0.063	0.0922	0.08359	0.1956	0.057

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 10/31/2021 4:04 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)
Mean	0.0001871	0.0002287	0.0004542
Std. Dev.	0.0001214	0.000133	0.0001334
Upper Lim.	0.0002	0.00023	0.0005
Lower Lim.	0.0001	0.00013	0.00011

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 10/31/2021 4:04 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)
Mean	0.0002433	0.0004989	0.0002561
Std. Dev.	0.0001738	4.714E-06	0.0001283
Upper Lim.	0.0005	0.0005	0.0002269
Lower Lim.	0.0001	0.00048	0.000133

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/31/2021 4:04 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
Mean	0.003302	0.002444	0.005389	0.004636	0.004245	0.004255	0.00475
Std. Dev.	0.002181	0.001669	0.00165	0.003098	0.001737	0.001714	0.001061
Upper Lim.	0.005	0.002168	0.012	0.015	0.005	0.005	0.005
Lower Lim.	0.00065	0.001036	0.005	0.0027	0.0005	0.0006	0.0005

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/31/2021 4:04 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
Mean	0.00233	0.01786	0.002485	0.004771	0.001401	0.003903
Std. Dev.	0.0008436	0.02632	0.0006343	0.001024	0.001238	0.001952
Upper Lim.	0.002726	0.01556	0.0026	0.005	0.0012	0.005
Lower Lim.	0.001852	0.003277	0.0022	0.00042	0.00092	0.00094

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/31/2021 4:04 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)
Mean	0.8084	0.7047	3.309	0.8539	0.6348	0.7302	0.9107
Std. Dev.	0.5034	0.2866	1.163	0.3532	0.344	0.3734	0.37
Upper Lim.	1.033	0.8674	3.969	1.054	0.8302	0.9422	1.121
Lower Lim.	0.4988	0.542	2.649	0.6533	0.4395	0.5182	0.7006

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/31/2021 4:04 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)
Mean	0.08333	0.1316	0.09205	0.1609	0.126	0.2071	0.08729
Std. Dev.	0.02085	0.09704	0.02537	0.1027	0.08016	0.09897	0.03064
Upper Lim.	0.1	0.16	0.1	0.198	0.14	0.2617	0.09347
Lower Lim.	0.06	0.044	0.07	0.0988	0.078	0.1525	0.05957

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/31/2021 4:04 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
Mean	0.0008819	0.0007094	0.0007748	0.0007071	0.0008326
Std. Dev.	0.0003228	0.0004453	0.0003672	0.0004487	0.0003604
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	5.9E-05	6.4E-05	0.0002	6.3E-05	0.00016

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/31/2021 4:04 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)
Mean	0.006875	0.009075	0.02711	0.006855	0.02876	0.007145
Std. Dev.	0.000524	0.002024	0.008909	0.0003531	0.005523	0.005444
Upper Lim.	0.007173	0.01022	0.03	0.007056	0.03	0.0066
Lower Lim.	0.006577	0.007926	0.0013	0.006654	0.0053	0.0053

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/31/2021 4:04 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
Mean	0.005855	0.00519	0.008144	0.009541
Std. Dev.	0.004298	0.004465	0.003809	0.00205
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 10/31/2021 4:04 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
Mean	0.002483	0.004128	0.004789	0.004778
Std. Dev.	0.001035	0.001694	0.0008957	0.0009428
Upper Lim.	0.0031	0.005	0.005	0.005
Lower Lim.	0.0018	0.0014	0.0012	0.001

FIGURE I.

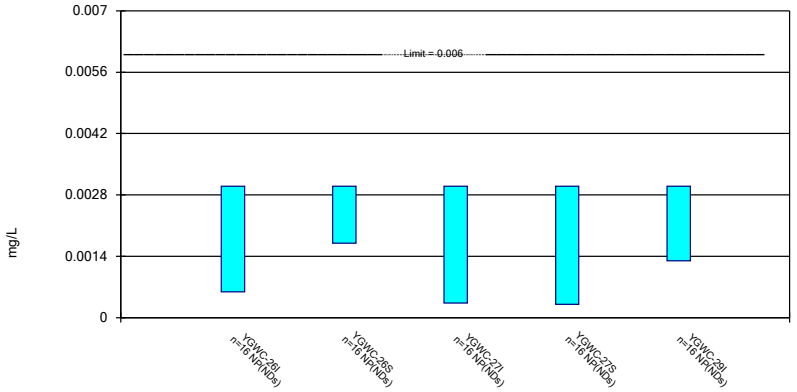
State Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/31/2021, 4:01 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	16	0.002694	0.0008352	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No	16	0.002831	0.0004615	87.5	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.00033	0.006	No	16	0.002833	0.0006675	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No	16	0.002831	0.000675	93.75	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29I	0.003	0.0013	0.006	No	16	0.002894	0.000425	93.75	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.0006	0.01	No	20	0.003272	0.002175	60	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.0007	0.01	No	20	0.003275	0.002168	60	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06622	0.06269	2	No	20	0.06446	0.003116	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02881	0.02628	2	No	20	0.02755	0.002228	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.08	0.063	2	No	20	0.06972	0.007677	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-27S	0.1039	0.0922	2	No	20	0.09807	0.01032	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28I	0.08972	0.08359	2	No	20	0.08666	0.005406	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28S	0.2227	0.1956	2	No	20	0.2045	0.03853	0	None	x^3	0.01	Param.
Barium (mg/L)	YGWC-29I	0.0741	0.057	2	No	20	0.07329	0.03326	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-26S	0.0002	0.0001	0.004	No	18	0.0001871	0.0001214	11.11	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.00023	0.00013	0.004	No	18	0.0002287	0.000133	16.67	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27S	0.0005	0.00011	0.004	No	18	0.0004542	0.0001334	88.89	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.0005	0.0001	0.005	No	18	0.0002433	0.0001738	11.11	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28S	0.0005	0.00048	0.005	No	18	0.0004989	0.000004714	94.44	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29I	0.0002269	0.000133	0.005	No	18	0.0002561	0.0001283	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Chromium (mg/L)	YGWC-26I	0.005	0.00065	0.1	No	18	0.003302	0.002181	55.56	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002168	0.001036	0.1	No	18	0.002444	0.001669	16.67	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	YGWC-27I	0.012	0.005	0.1	No	18	0.005389	0.00165	94.44	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-27S	0.015	0.0027	0.1	No	18	0.004636	0.003098	66.67	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.0005	0.1	No	18	0.004245	0.001737	83.33	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.0006	0.1	No	18	0.004255	0.001714	83.33	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.005	0.0005	0.1	No	18	0.00475	0.001061	94.44	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002726	0.001852	0.035	No	20	0.00233	0.0008436	5	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.01556	0.003277	0.035	No	20	0.01786	0.02632	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.0026	0.0022	0.035	No	20	0.002485	0.0006343	5	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	20	0.004771	0.001024	95	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0012	0.00092	0.035	No	20	0.001401	0.001238	10	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.005	0.00094	0.035	No	20	0.003903	0.001952	75	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.033	0.4988	6.92	No	19	0.8084	0.5034	5.263	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.8674	0.542	6.92	No	20	0.7047	0.2866	5	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	3.969	2.649	6.92	No	20	3.309	1.163	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.054	0.6533	6.92	No	20	0.8539	0.3532	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.8302	0.4395	6.92	No	20	0.6348	0.344	5	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9422	0.5182	6.92	No	20	0.7302	0.3734	5	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.121	0.7006	6.92	No	20	0.9107	0.37	5	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.06	4	No	21	0.08333	0.02085	42.86	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.044	4	No	21	0.1316	0.09704	71.43	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.1	0.07	4	No	21	0.09205	0.02537	57.14	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27S	0.198	0.0988	4	No	21	0.1609	0.1027	19.05	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.14	0.078	4	No	21	0.126	0.08016	23.81	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2617	0.1525	4	No	21	0.2071	0.09897	9.524	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.09347	0.05957	4	No	21	0.08729	0.03064	33.33	Kaplan-Meier	sqrt(x)	0.01	Param.
Lead (mg/L)	YGWC-26I	0.001	0.000059	0.0013	No	16	0.0008819	0.0003228	87.5	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.001	0.000064	0.0013	No	16	0.0007094	0.0004453	68.75	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.001	0.0002	0.0013	No	16	0.0007748	0.0003672	62.5	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.001	0.000063	0.0013	No	16	0.0007071	0.0004487	68.75	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29I	0.001	0.00016	0.0013	No	16	0.0008326	0.0003604	81.25	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007173	0.006577	0.03	No	20	0.006875	0.000524	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.01022	0.007926	0.03	No	20	0.009075	0.002024	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.0013	0.03	No	20	0.02711	0.008909	90	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.007056	0.006654	0.03	No	20	0.006855	0.0003531	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.03	No	20	0.02876	0.005523	95	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29I	0.0066	0.0053	0.03	No	20	0.007145	0.005444	5	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-27I	0.01	0.0014	0.014	No	20	0.005855	0.004298	50	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.014	No	20	0.00519	0.004465	45	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00083	0.014	No	20	0.008144	0.003809	80	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29I	0.01	0.00083	0.014	No	20	0.009541	0.00205	95	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0031	0.0018	0.05	No	18	0.002483	0.001035	11.11	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	No	18	0.004128	0.001694	77.78	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	No	18	0.004789	0.0008957	94.44	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	No	18	0.004778	0.0009428	94.44	None	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

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

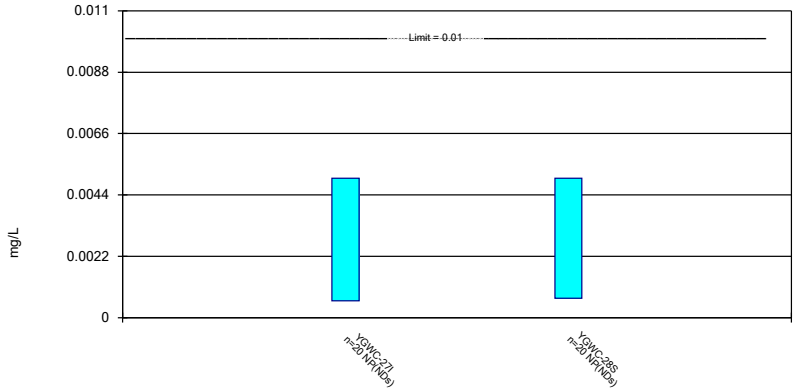


Constituent: Antimony Analysis Run 10/31/2021 3:59 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

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

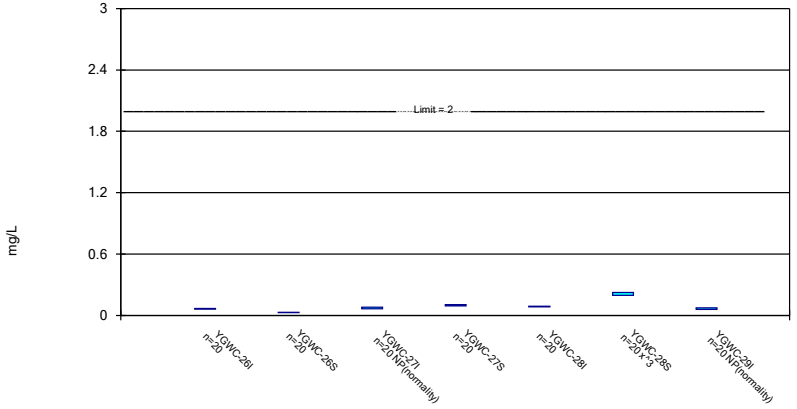


Constituent: Arsenic Analysis Run 10/31/2021 3:59 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Parametric and Non-Parametric (NP) Confidence Interval

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

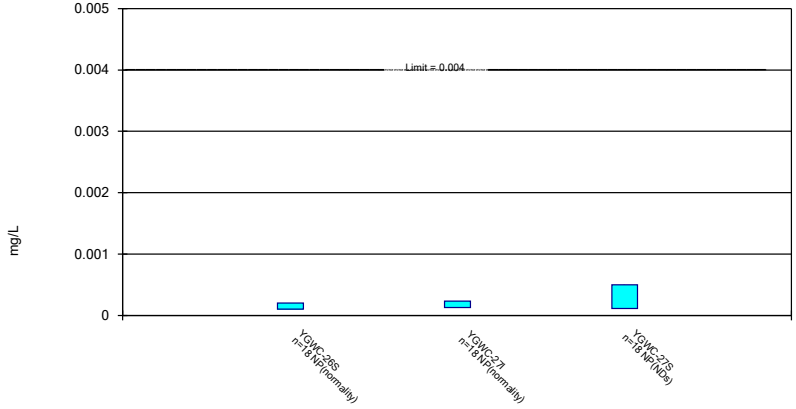


Constituent: Barium Analysis Run 10/31/2021 3:59 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.9.6.31 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

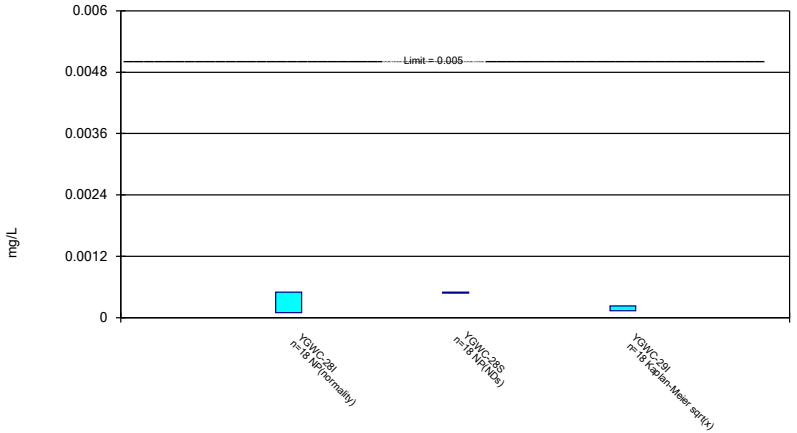
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 10/31/2021 4:00 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.

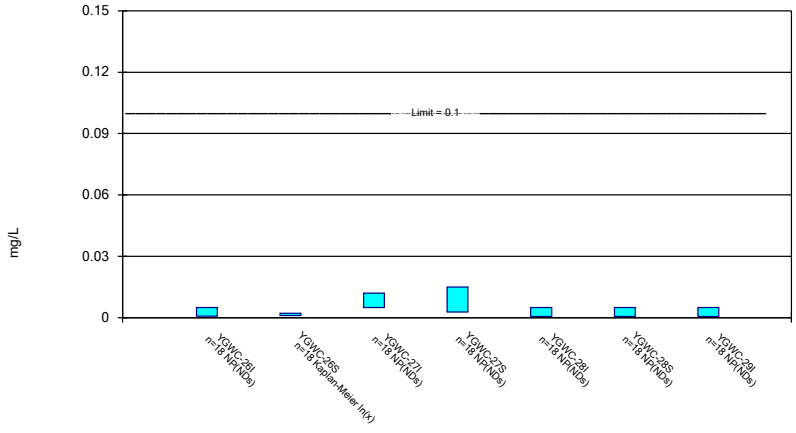


Constituent: Cadmium Analysis Run 10/31/2021 4:00 PM View: Appendix IV

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.

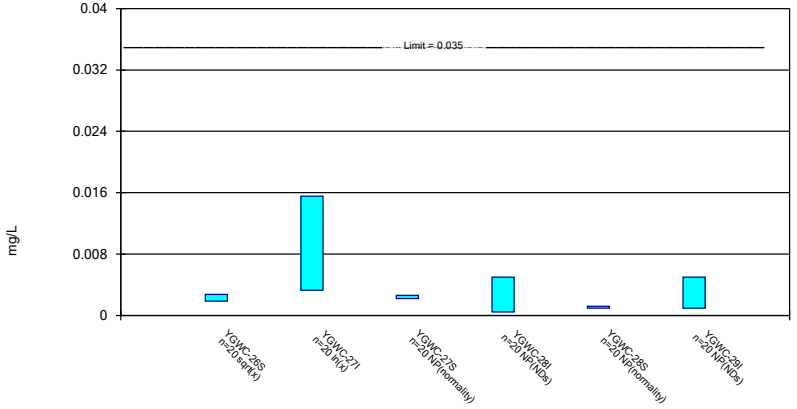


Constituent: Chromium Analysis Run 10/31/2021 4:00 PM View: Appendix IV

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.

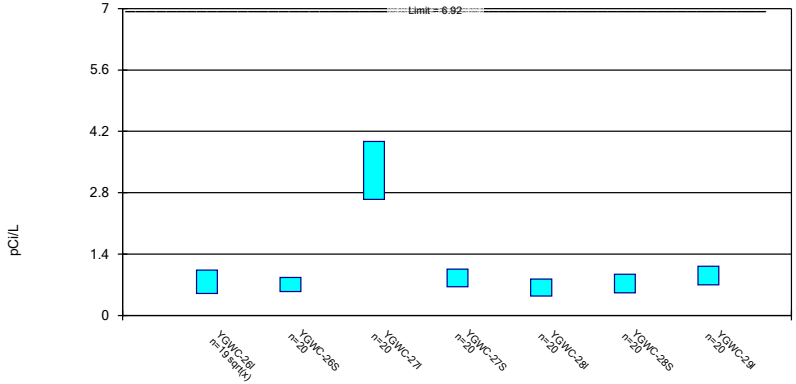


Constituent: Cobalt Analysis Run 10/31/2021 4:00 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric Confidence Interval

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

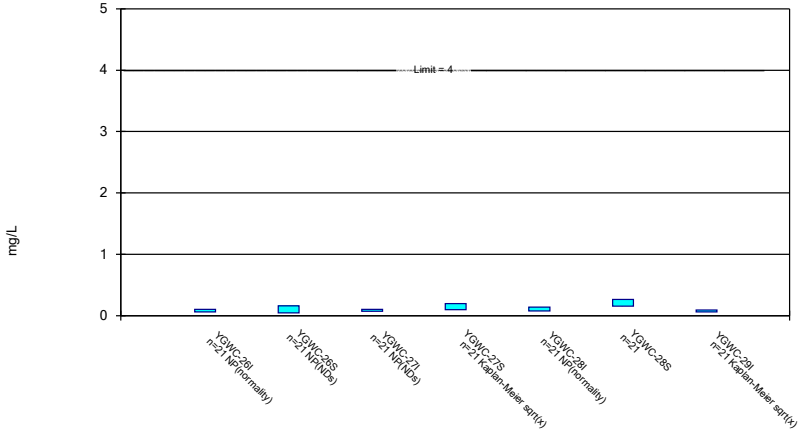


Constituent: Combined Radium 226 + 228 Analysis Run 10/31/2021 4:00 PM View: Appendix IV

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.

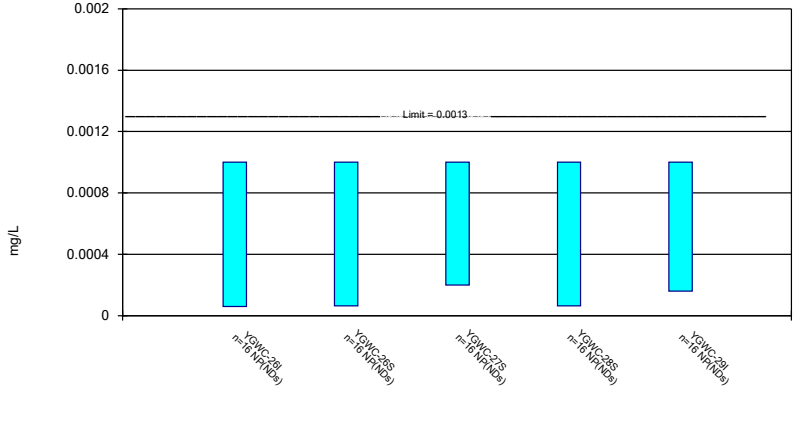


Constituent: Fluoride Analysis Run 10/31/2021 4:00 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

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

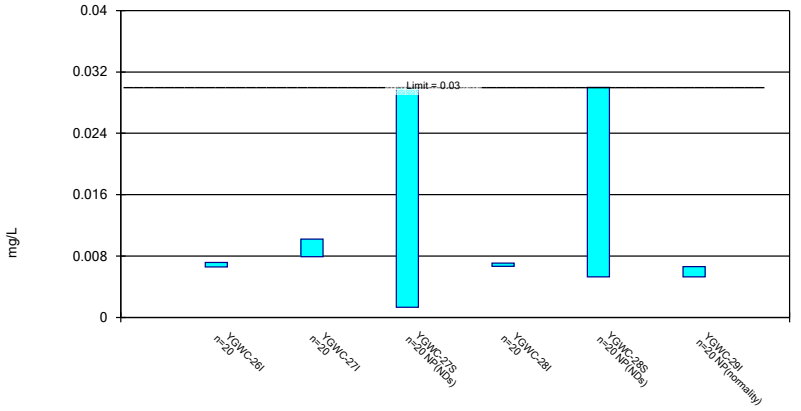


Constituent: Lead Analysis Run 10/31/2021 4:00 PM View: Appendix IV

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.

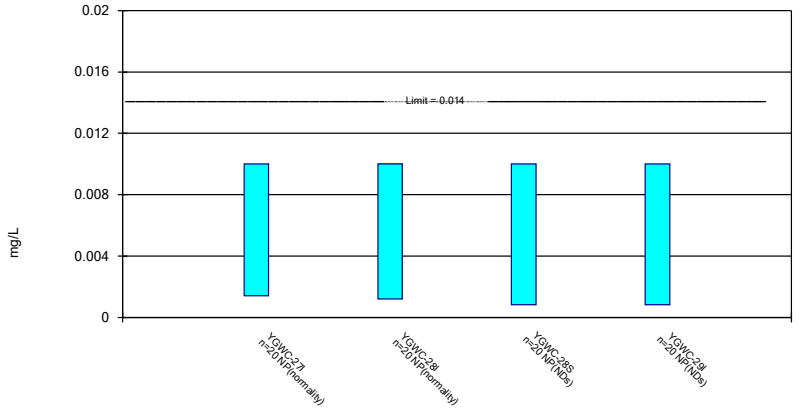


Constituent: Lithium Analysis Run 10/31/2021 4:00 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

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

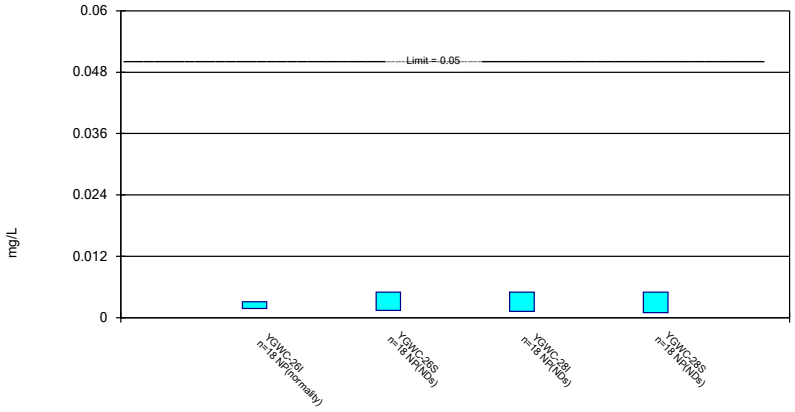


Constituent: Molybdenum Analysis Run 10/31/2021 4:00 PM View: Appendix IV

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 10/31/2021 4:00 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/31/2021 4:01 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
Mean	0.002694	0.002831	0.002833	0.002831	0.002894
Std. Dev.	0.0008352	0.0004615	0.0006675	0.000675	0.000425
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 10/31/2021 4:01 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27I	YGWC-28S
6/8/2016	0.0011 (J)	
6/9/2016		0.00094 (J)
8/1/2016	0.0009 (J)	
8/2/2016		<0.005
9/20/2016	<0.005	
9/21/2016		<0.005
11/7/2016	<0.005	<0.005
1/18/2017	<0.005	<0.005
2/21/2017		<0.005
2/23/2017	<0.005	
5/5/2017		<0.005
5/8/2017	0.0006 (J)	
6/30/2017	<0.005 (*)	
7/7/2017		0.0007 (J)
3/29/2018	0.0006 (J)	
3/30/2018		0.00069 (J)
6/12/2018		0.00075 (J)
6/13/2018	<0.005	
10/2/2018	<0.005	
10/3/2018		0.0007 (J)
2/27/2019	0.00069 (J)	<0.005
4/1/2019	<0.005	
4/2/2019		<0.005
9/26/2019	0.00058 (J)	0.00057 (J)
2/13/2020	0.00055 (J)	0.00065 (J)
3/19/2020		0.00051 (J)
3/20/2020	0.00042 (J)	
9/24/2020	<0.005	<0.005
2/10/2021	<0.005	
2/12/2021		<0.005
3/3/2021	<0.005	<0.005
8/20/2021	<0.005	<0.005
Mean	0.003272	0.003275
Std. Dev.	0.002175	0.002168
Upper Lim.	0.005	0.005
Lower Lim.	0.0006	0.0007

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/31/2021 4:01 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
Mean	0.06446	0.02755	0.06972	0.09807	0.08666	0.2045	0.07329
Std. Dev.	0.003116	0.002228	0.007677	0.01032	0.005406	0.03853	0.03326
Upper Lim.	0.06622	0.02881	0.08	0.1039	0.08972	0.2227	0.0741
Lower Lim.	0.06269	0.02628	0.063	0.0922	0.08359	0.1956	0.057

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 10/31/2021 4:01 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)
Mean	0.0001871	0.0002287	0.0004542
Std. Dev.	0.0001214	0.000133	0.0001334
Upper Lim.	0.0002	0.00023	0.0005
Lower Lim.	0.0001	0.00013	0.00011

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 10/31/2021 4:01 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)
Mean	0.0002433	0.0004989	0.0002561
Std. Dev.	0.0001738	4.714E-06	0.0001283
Upper Lim.	0.0005	0.0005	0.0002269
Lower Lim.	0.0001	0.00048	0.000133

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/31/2021 4:01 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
Mean	0.003302	0.002444	0.005389	0.004636	0.004245	0.004255	0.00475
Std. Dev.	0.002181	0.001669	0.00165	0.003098	0.001737	0.001714	0.001061
Upper Lim.	0.005	0.002168	0.012	0.015	0.005	0.005	0.005
Lower Lim.	0.00065	0.001036	0.005	0.0027	0.0005	0.0006	0.0005

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/31/2021 4:01 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
Mean	0.00233	0.01786	0.002485	0.004771	0.001401	0.003903
Std. Dev.	0.0008436	0.02632	0.0006343	0.001024	0.001238	0.001952
Upper Lim.	0.002726	0.01556	0.0026	0.005	0.0012	0.005
Lower Lim.	0.001852	0.003277	0.0022	0.00042	0.00092	0.00094

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/31/2021 4:01 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)
Mean	0.8084	0.7047	3.309	0.8539	0.6348	0.7302	0.9107
Std. Dev.	0.5034	0.2866	1.163	0.3532	0.344	0.3734	0.37
Upper Lim.	1.033	0.8674	3.969	1.054	0.8302	0.9422	1.121
Lower Lim.	0.4988	0.542	2.649	0.6533	0.4395	0.5182	0.7006

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/31/2021 4:01 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)
Mean	0.08333	0.1316	0.09205	0.1609	0.126	0.2071	0.08729
Std. Dev.	0.02085	0.09704	0.02537	0.1027	0.08016	0.09897	0.03064
Upper Lim.	0.1	0.16	0.1	0.198	0.14	0.2617	0.09347
Lower Lim.	0.06	0.044	0.07	0.0988	0.078	0.1525	0.05957

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/31/2021 4:01 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
Mean	0.0008819	0.0007094	0.0007748	0.0007071	0.0008326
Std. Dev.	0.0003228	0.0004453	0.0003672	0.0004487	0.0003604
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	5.9E-05	6.4E-05	0.0002	6.3E-05	0.00016

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/31/2021 4:01 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)
Mean	0.006875	0.009075	0.02711	0.006855	0.02876	0.007145
Std. Dev.	0.000524	0.002024	0.008909	0.0003531	0.005523	0.005444
Upper Lim.	0.007173	0.01022	0.03	0.007056	0.03	0.0066
Lower Lim.	0.006577	0.007926	0.0013	0.006654	0.0053	0.0053

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/31/2021 4:01 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
Mean	0.005855	0.00519	0.008144	0.009541
Std. Dev.	0.004298	0.004465	0.003809	0.00205
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 10/31/2021 4:01 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
Mean	0.002483	0.004128	0.004789	0.004778
Std. Dev.	0.001035	0.001694	0.0008957	0.0009428
Upper Lim.	0.0031	0.005	0.005	0.005
Lower Lim.	0.0018	0.0014	0.0012	0.001

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