



2021 Semiannual Groundwater Monitoring and Corrective Action Report

**Plant Yates – Gypsum Landfill
Permit 038-016D(CCR)
Newnan, Georgia**

February 28, 2022

2021 Semiannual Groundwater Monitoring and Corrective Action Report

Plant Yates – Gypsum Landfill

Permit 038-016D(CCR)

Newman, Georgia

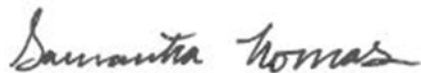
February 28, 2022

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Summary

This summary of the 2021 Semiannual Monitoring and Corrective Action Report provides the status of groundwater monitoring and corrective action program July through December 2021 at Georgia Power Company's (Georgia Power's) Plant Yates Gypsum Landfill (the site). This summary was prepared by Arcadis U.S., Inc. (Arcadis) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6¹ of the U.S. Environmental Protection Agency (USEPA) Coal Combustion Residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant Yates is located at 708 Dyer Road, approximately 8 miles northwest of Newnan and 13 miles southeast of Carrollton in Coweta County, Georgia. Plant Yates originally operated seven coal-fired steam generating units. Five of the units were retired in 2015, and two units were converted from coal to natural gas. CCR material resulting from power generation have historically been transferred and stored at the Site. The Site is located on the northern portion of the Plant Yates property. The Gypsum Landfill was closed by removal of CCR material. The GA EPD approved Closure Permit No. 038-016D(CCR) for Plant Yates Gypsum Landfill on January 5, 2022.

Groundwater at the site is monitored using a comprehensive monitoring system of wells installed to meet federal and state monitoring requirements. A permit application package for the Gypsum Landfill was submitted in November 2018 to comply with the CCR rule and approved on January 5, 2022 (Permit 038-016D(CCR)). Routine sampling and reporting began in 2019 after the completion of eight background sampling events. Based on groundwater conditions at the site, an assessment monitoring program was established on November 13, 2019. During the 2021 semiannual reporting period, the site remained in assessment monitoring.

During the 2021 semiannual reporting period, Arcadis conducted a groundwater sampling event in August 2021. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR rule, groundwater results were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III² parameters in wells provided in the table below. There were no statistically significant levels (SSLs) for Appendix IV³ parameters⁴.



Plant Yates and the site

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

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

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

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

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Appendix III Parameter	August 2021
Boron	GWC-4R
Calcium	GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R
Chloride	GWC-2R, GWC-4R
Sulfate	GWC-1R, GWC-2R, GWC-5R, GWC-6R
Total Dissolved Solids	GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R

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

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Acronyms and Abbreviations

ACC	Atlantic Coast Consulting, Inc.
CCR	Coal Combustion Residuals
CCR Units	the combined monitoring systems of AP-3, A, B, and B', and the R6 Landfill
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
ORP	oxidation-reduction potential
QA/QC	Quality Assurance/Quality Control
SSI	Statistically Significant Increase
SSL	statistically significant level
TDS	total dissolved solids
USEPA	United States Environmental Protection Agency

Professional Certification

This 2021 Semiannual Groundwater Monitoring and Corrective Action Report for the Georgia Power Company Plant Yates Gypsum Landfill 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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2.28.22
Date

1 Introduction

This 2021 Semiannual Groundwater Monitoring and Corrective Action Report presents groundwater monitoring activities conducted at the Georgia Power Company (GPC) Plant Yates Gypsum Landfill (the site) from July through December 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.

The list of analytes included in the groundwater monitoring program was modified to meet the requirements of 40 CFR §§ 257.90 through 257.95 of the Federal CCR Rule through a minor modification in August 2017. A notice of assessment monitoring was placed in the operating record in November 2019 based on statistically significant increases (SSIs) documented in the Supplemental 2019 First Semiannual Groundwater Monitoring Report (ACC 2019). This report presents the results of the August 2021 semiannual monitoring for Appendix III and IV constituents of 40 CFR Part 257, and 40 CFR Part 258 Appendix I and II metals required by the previous state permit.

1.1 Site Description and Background

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

The site ceased accepting CCR before October 19, 2015 and is therefore not subject to federal monitoring requirements. The site was closed following the removal of all gypsum and liner material. A closure certification report was submitted to GAEPD in January 2017. A permit application to comply with GAEPD Rules was submitted in November 2018 and approved on January 5, 2022 (Permit 038-016D(CCR)). Areas where CCR Removal Reports have been submitted to GA EPD are shown in **Figure 2**.

1.2 Site Geology and Hydrogeologic Setting

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

A thin layer of soil from 1 to 2 feet thick overlies a thick layer of saprolite. The saprolite, which extends to typical depths of 20 to 40 feet below ground surface, was formed in place by the physical and chemical weathering of the underlying metamorphic rocks. The saprolite typically consists of clay and silt-rich soils that grade to sandier soils

with depth. A zone of variable thickness (approximately 5 to 20 feet) of transitionally weathered rock typically exists between the saprolite and competent bedrock. The lithology of the transition zone is highly variable and ranges from medium to coarse unconsolidated material to highly fractured and weathered rock fragments. Localized alluvial soils consisting of generally coarser material (silty-sand, clayey silt, and silty clay with well-rounded gravel and cobbles) 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 on the site. The average hydraulic conductivity for the unit is 1.3×10^{-3} centimeters per second based on multiple rising-head and falling-head slug tests (ACC 2021). This indicates a fairly uniform medium across the saprolite and weathered rock horizon. The hydraulic conductivity values from the field tests fall within a range consistent with that of Piedmont overburden (Newell et al. 1990).

1.3 Groundwater Monitoring Well Network and CCR Unit Description

A groundwater monitoring system was previously installed within the uppermost aquifer at the site. The monitoring system was designed to monitor groundwater passing the unit boundary within the uppermost aquifer. Wells were placed to serve as upgradient and downgradient monitoring points based on groundwater flow direction. **Table 1** presents a summary of the monitoring well network depicted on **Figure 3**.

2 Groundwater Monitoring

Pursuant to 40 CFR § 257.90(e), the following describes monitoring-related activities performed in the second half of 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 the site during the second half of 2021. During the August 2021 semiannual sampling event, groundwater samples were collected and analyzed for both 40 CFR 257 Appendix III and Appendix IV constituents to meet the requirement of 40 CFR § 257.95(b) as well as permit-required Appendix I and II constituents. Analytical laboratory reports and data validation reports are included in **Appendix A**. Field sampling logs are provided in **Appendix B**.

2.1 Monitoring Well Installation and Maintenance

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

Monitoring wells are inspected semiannually to determine if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). In August 2021, monitoring wells were inspected, necessary corrective actions were identified and subsequently completed where necessary, as documented in **Appendix B**. There were no well maintenance issues during this period that required corrective actions. 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

SSIs of Appendix III constituents were identified in the initial detection monitoring event (June 2019). The initial assessment monitoring event was conducted in August 2020. semiannual assessment monitoring event was conducted in August 2021. Pursuant to 40 CFR §§ 257.95(b) and 257.95(d)(1), groundwater samples collected in August 2021 from the CCR monitoring wells were analyzed for Appendix III and IV constituents, in addition to Appendix I and II metals required by the existing state permit. **Table 3** provides a summary of the constituents monitored during the events.

3 Sample Methodology and Analysis

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

3.1 Groundwater Flow Direction, Gradient, and Velocity

Before the sampling event, static water levels were recorded from the wells in the well network for the Gypsum Landfill. Groundwater elevations recorded during the August 2021 monitoring event are summarized in **Table 4**. A potentiometric surface map is provided on **Figure 4** with data from the sampling event. The general direction of groundwater flow across the site is towards the west and is consistent with historical patterns.

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

Specifically:

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

where:

v = groundwater seepage velocity

k = hydraulic conductivity

dh/dl = hydraulic gradient

n_e = effective porosity

The groundwater flow velocity was calculated for the site based on hydraulic gradients, average hydraulic conductivity based on updated slug test data from April 2021, 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). An alternate effective porosity of 0.48 was also used to define the range of groundwater flow velocities (SCS 1992). Groundwater flow velocity calculations are presented in **Table 5**. The calculated flow velocity ranged from 0.19 foot per day (71 feet per year) to 0.47 foot per day (170 feet per year). These calculated groundwater velocities across the site are generally consistent with expected velocities in the site-specific geology.

3.2 Groundwater Sampling

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

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

- ± 0.1 standard units for pH;
- $\pm 5\%$ for specific conductance;
- Turbidity measurements less than 5 nephelometric turbidity units; and
- $\pm 10\%$ 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 collection. The samples were submitted to Pace Analytical Services, LLC following chain-of-custody protocol. Stabilization logs for each well are included in **Appendix B**.

3.3 Laboratory Analysis

Groundwater samples collected during the semiannual assessment event were analyzed for Appendix III parameters as well as Appendix IV parameters in accordance with 40 CFR §§ 257.95(b) and 257.95(d)(1), and the 40 CFR Part 258 Appendix I and II metals required by the previous state permit. **Table 3** provides a summary of the constituents monitored during the event. Analytical methods used for groundwater sample analysis are listed on the analytical laboratory reports included in **Appendix A**. Analytical data collected from the semiannual sampling event 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. Laboratory reports and chain-of-custody records for the monitoring event are presented in **Appendix A**.

3.4 Data Quality Assurance/Quality Control and Validation

During the sampling event, quality assurance/quality control (QA/QC) samples were collected at a rate of one per 10 samples. QA/QC samples included equipment blanks (where non-dedicated equipment is used), field blanks, and duplicate samples. Groundwater quality data in this report were validated in accordance with USEPA guidance (USEPA 2011) and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spikes/matrix spike duplicate recoveries and relative percent differences, post-digestion spikes, laboratory and field duplicate relative percent differences, equipment blanks, and reporting limits. Where appropriate, validation qualifiers and flags have been applied to the data using USEPA procedures as guidance (USEPA 2017). The data validation report, prepared by Arcadis and included in **Appendix A**, summarizes the validation actions and applicable interpretation.

The purpose of the data quality evaluation was to determine the reliability of the chemical analyses and the accuracy and precision of information acquired from the laboratory. Data quality was assessed through the review and evaluation of field sampling activities, quality control samples, and data associated with the chemical analytical results. The data are considered useable for meeting project objectives, and the results are considered valid. The complete results of the data quality evaluations are provided in **Appendix A**.

Values followed by a "J" flag indicate that the value is an estimated analyte concentration detected between the method detection limit (MDL) and the laboratory reporting limit. 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 I, II, III, and IV groundwater monitoring data was performed on samples collected from the Gypsum Landfill groundwater monitoring network pursuant to § 257.93(f) in August 2021. 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, US EPA 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 both Appendix III constituents and permit required Appendix I and II metals is performed.

4.1.1 Permit-Required Appendix I and II Metals

A minor permit modification was submitted to GAEPD following submittal of the 2019 First Supplemental Semiannual Groundwater Monitoring Report to allow use of intrawell methods for evaluation of state metals. The statistical methodology was revised to an intrawell method following the June 2019 monitoring event.

Statistical tests used to evaluate the groundwater monitoring data consist of intrawell prediction limits (PLs) combined with a 1-of-2 verification resample plan for all required metals. In an intrawell comparison, analytical results from an individual well are compared to historical analytical results from that same well. If data from a sampling event initially exceed the PL, the resampling strategy may be used to verify the result. In 1-of-2 resampling, an independent resample may be collected and evaluated within 90 days to determine whether the initial exceedance is verified. If a resample exceeds the PL, the initial exceedance is verified, and an SSI is identified. When a resample result does not verify the initial result and does not exceed the PL, there is no SSI. If resampling is not performed, the initial exceedance is a confirmed exceedance.

4.1.2 Appendix III Monitoring Statistics

Groundwater data were evaluated using interwell prediction limits for Appendix III parameters boron, calcium, chloride, sulfate, and total dissolved solids (TDS) combined with a 1-of-2 verification resample plan. Monitoring results for fluoride and pH were evaluated using intrawell prediction limits combined with a 1-of-2 verification resample plan. Interwell prediction limits pool upgradient well data to establish a background statistical limit. The most recent sample from each downgradient well is compared to the background limit to determine whether there are exceedances of background. When the most recent sample exceeds its respective background statistical limit, an SSI is identified. The following criteria were applied to the evaluation:

- Statistical analyses were not performed on analytes containing 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 and 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 PLs were used on data containing greater than 50 percent non-detects.

4.1.3 Appendix IV Assessment Monitoring Statistics

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

The confidence and coverage levels for non-parametric tolerance limits depend on the number of background samples. The background limits were then used when determining the Groundwater Protection Standards (GWPS) established under 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a).

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

- The maximum contaminant level (MCL) established under §§ 141.62 and 141.66 of this title;
- 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 in 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 the Gypsum Landfill. **Table 7** summarizes the background limits established at each monitoring well for the August 2021 sampling event 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 the federal and state rules. A well/constituent pair was considered to exceed its respective standard only when the entire confidence interval exceeded a GWPS. If there was an exceedance of the established standard, a statistically significant level (SSL) exceedance was identified.

4.2 Statistical Analysis Results

4.2.1 Permit-Required Appendix I and II Metals

Analytes required by the existing state permit were analyzed during the semiannual monitoring events. Concentrations of target metals that exceeded their respective intrawell PLs calculated from the August 2021 sampling event include the constituents listed below.

- Beryllium: GWC-5R;
- Cobalt: GWC-3R;
- Selenium: GWC-1R and GWC-3R;
- Zinc: GWA-2 (upgradient) and GWC-5R.

While a PL exceedance was noted for beryllium in GWC-5R and selenium for GWC-1R and GWC-3R, concentrations at these wells are below their respective groundwater protection standards of 0.004 mg/L and 0.05

mg/L. The downgradient well concentrations for zinc at GWC-5R and cobalt at GWC-3R are below the groundwater protection standards of 5.0 mg/L for zinc and 0.035 mg/L for cobalt.

4.2.2 Appendix III Constituents

Based on review of the Appendix III statistical analysis presented in **Appendix C**, Appendix III constituents have not returned to background levels, and assessment monitoring should continue pursuant to 40 CFR § 257.95(f). A table identifying the site monitoring wells in which analytical sampling results have revealed constituents with SSIs is included in **Appendix C**.

4.2.3 Appendix IV Assessment Monitoring Constituents

Statistical analysis of the August 2021 Appendix IV data at the Gypsum Landfill 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.

5 Monitoring Program Status

In accordance with GAEPD rule 391-3-4-.10(6)(a) and 40 CFR §257.94(e), an assessment monitoring program was initiated in November 2019. The site will remain in assessment monitoring due to SSIs for Appendix I and III parameters.

6 Conclusions and Future Actions

This 2021 Semiannual Groundwater Monitoring and Corrective Action Report was prepared to fulfill the requirements of USEPA's CCR Rule 40 CFR § 257.95 and GAEPD Rule 391-3-4-.10. Statistical evaluations of the groundwater monitoring data for the site identified SSIs of Appendix I and III constituents.

The next assessment monitoring event is scheduled for February 2022. The monitoring event will include sampling and analysis of all Appendix I, II, III and IV constituents.

7 References

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Tables

Table 1
Monitoring Well Network Summary
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Georgia Power Company
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Well	Installation Date	Top of Casing Elevation (ft)	Bottom Depth (ft bTOC)	Bottom Elevation (ft)	Depth to Top of Screen (ft bTOC)	Top of Screen Elevation (ft)	Purpose
Upgradient Wells							
GWA-2	4/12/2007	805.62	52.02	753.60	41.82	763.80	Upgradient
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
Downgradient Wells							
GWC-1R	5/12/2011	773.27	36.37	736.90	26.07	747.20	Downgradient
GWC-2R	10/19/2010	769.76	44.00	725.76	33.70	736.06	Downgradient
GWC-3R	5/11/2011	775.25	38.45	736.80	28.15	747.10	Downgradient
GWC-4R	10/20/2010	757.48	30.20	727.28	19.90	737.58	Downgradient
GWC-5R	5/11/2011	782.45	42.35	740.10	32.05	750.40	Downgradient
GWC-6R	8/11/2009	788.98	55.25	733.73	41.94	747.04	Downgradient

Notes:

ft bTOC - feet below top of casing

Elevation in U.S. Survey Feet (NAVD88) based on June 2020 survey

Table 2
Groundwater Sampling Event Summary
2021 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill



Well	Hydraulic Location	Semiannual Assessment
		August 2021
GWA-2	Upgradient	X
GWC-1R	Downgradient	X
GWC-2R	Downgradient	X
GWC-3R	Downgradient	X
GWC-4R	Downgradient	X
GWC-5R	Downgradient	X
GWC-6R	Downgradient	X

Notes

1. All well analyzed for Appendix III and IV.

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

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

Table 3
Summary of Groundwater Monitoring Parameters
2021 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill



Appendix I and II Metals (State Permit)	Appendix III (40 CFR 257)	Appendix IV (40 CFR 257)
Antimony	Boron	Antimony
Arsenic	Calcium	Arsenic
Barium	Chloride	Barium
Beryllium	Fluoride	Beryllium
Cadmium	pH	Cadmium
Chromium	Sulfate	Chromium
Cobalt	Total Dissolved Solids	Cobalt
Copper		Fluoride
Lead		Lead
Mercury		Lithium
Nickel		Mercury
Selenium		Molybdenum
Silver		Radium combined - 226/228
Thallium		Selenium
Vanadium		Thallium
Zinc		

Table 4
Summary of Groundwater Elevations
2021 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill



Well ID	Date Measured	Top of Casing Elevation (ft) ¹	Depth to Water (ft bTOC)	Groundwater Elevation (ft)
GWA-2	8/16/2021	805.62	35.73	769.89
GWC-1R	8/16/2021	773.27	21.26	752.01
GWC-2R	8/16/2021	769.76	27.70	742.06
GWC-3R	8/16/2021	775.25	26.66	748.59
GWC-4R	8/16/2021	757.48	15.46	742.02
GWC-5R	8/16/2021	782.45	27.35	755.10
GWC-6R	8/16/2021	788.98	33.59	755.39

Notes

ft bTOC - feet below top of casing

¹ Elevation in U.S. Survey Feet (NAVD88) based on June 2020 survey.

Equation

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

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

Values Used in Calculation

Value	Source
K: 1.03E-03 cm/sec 2.91 ft/day	See note 1
i ₁ = 0.032 unitless	Hydraulic gradient from: GWA-2 to GWC-4R (Aug. 2021) Distance (ft): 866.25 Elevations (ft): GWA-2: 769.89 GWC-4R: 742.02
n _e = 0.48 unitless	See note 1
n _e = 0.20 unitless	See note 2

Site-specific groundwater linear velocity using porosity value of 0.48

$$v = \frac{\text{Aug. 2021} (2.91) (0.032)}{0.48}$$

$$v = 0.194 \text{ ft/day or } 71 \text{ ft/year}$$

Groundwater linear velocity using literature porosity value of 0.20

$$v = \frac{\text{Aug. 2021} (2.91) (0.032)}{0.20}$$

$$v = 0.47 \text{ ft/day or } 170 \text{ ft/year}$$

Notes

1. Groundwater Monitoring Plan, Plant Yates, Inactive CCR Landfill - Gypsum Stack (ACC 2021)
2. Default value recommended by USEPA for silty sand-type soil (USEPA 1989).

Table 6 - Summary of Groundwater Analytical Data
 2021 Semiannual Groundwater Monitoring and Corrective Action Report
 Georgia Power Company
 Plant Yates - Gypsum Landfill



Analyte	Units ¹	GWA-2	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
		8/20/2021	8/18/2021	8/18/2021	8/18/2021	8/18/2021	8/18/2021	8/18/2021
Appendix III (40 CFR 257)								
pH	SU	5.86	5.08	4.96	4.73	5.46	4.76	5.82
Boron	mg/l	< 0.0086	0.029 J	0.14	< 0.0086	4.5	0.021 J	< 0.0086
Calcium	mg/l	26.5	154	45.8	20.2	56.2	159	74.5
Chloride	mg/l	5.2	5.2	26.2	4.6	150	2.3	5.4
Fluoride	mg/l	0.060 J	< 0.050	< 0.050	0.16	< 0.050	0.056 J	< 0.050
Sulfate	mg/l	121	675	223	114	118	946	345
Total Dissolved Solids	mg/l	254	1200	474	214	630	1660	682
Appendix IV (40 CFR 257)								
Antimony	mg/l	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
Arsenic	mg/l	< 0.0011	0.0016 J	< 0.0011	0.0028 J	< 0.0011	0.0021 J	< 0.0011
Barium	mg/l	0.036	0.076	0.033	0.014	0.040	0.013	0.035
Beryllium	mg/l	< 0.000054	0.00030 J	0.00022 J	0.0011	0.00011 J	0.0033	< 0.000054
Cadmium	mg/l	< 0.00011	0.00017 J	0.00016 J	0.00022 J	< 0.00011	0.0010	< 0.00011
Chromium	mg/l	< 0.0011	0.0015 J	< 0.0011	< 0.0011	< 0.0011	0.0023 J	0.0015 J
Cobalt	mg/l	0.074	0.0014 J	0.00066 J	0.010	0.0027 J	0.00053 J	< 0.00039
Fluoride	mg/l	0.060 J	< 0.050	< 0.050	0.16	< 0.050	0.056 J	< 0.050
Lead	mg/l	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
Lithium	mg/l	0.0028 J	0.0019 J	0.0049 J	0.0010 J	0.00085 J	0.0016 J	0.0016 J
Mercury	mg/l	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078	< 0.000078
Molybdenum	mg/l	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074
Radium	pci/l	0.528 U	0.713 U	0.583 U	0.544 U	0.109 U	0.437 U	0.352 U
Selenium	mg/l	< 0.0014	0.019	0.0042 J	0.017	0.0046 J	0.017	0.0016 J
Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Appendix I & II Metals (State Permit) ²								
Copper	mg/l	0.0012 J	0.00067 J	< 0.00050	< 0.00050	< 0.00050	0.0022 J	0.00083 J
Nickel	mg/l	0.014	0.0028 J	< 0.00071	< 0.00071	0.0026 J	0.0016 J	0.0012 J
Silver	mg/l	< 0.00044	< 0.00044	< 0.00044	< 0.00044	< 0.00044	0.00084 J	< 0.00044
Vanadium	mg/l	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
Zinc	mg/l	0.014	< 0.0070	< 0.0070	0.011	< 0.0070	0.026	< 0.0070

Notes:

- 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 I and II parameters included to meet EPD Rule 391-3-4-.14 requirements that is not included in the Appendix IV parameter list
 < Analyte was not detected above the laboratory method detection limit (MDL).

Laboratory Qualifiers:

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

U = The substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.

**Table 7 - Background Levels and Groundwater Protection Standards
2021 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill**



Constituent	Units	Background	Federal GWPS	State GWPS
August 2021				
Antimony	mg/L	0.0047	0.006	0.006
Arsenic	mg/L	0.005	0.01	0.01
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	0.1	0.1
Cobalt	mg/L	0.035 ¹	0.035 ¹	0.035 ¹
Fluoride	mg/L	0.68	4	4
Lead	mg/L	0.0013	0.015	0.0013
Lithium	mg/L	0.03	0.040	0.03
Mercury	mg/L	0.0002	0.002	0.002
Molybdenum	mg/L	0.014	0.1	0.014
Selenium	mg/L	0.005	0.05	0.05
Thallium	mg/L	0.001	0.002	0.002
Combined Radium - 226/228	pCi/L	6.92 ¹	6.92 ¹	6.92 ¹

Notes

1. Background concentration is higher than the federally promulgated value (0.006 mg/L for Co). Background is higher than radium MCL (5 mg/L). Therefore background is the GWPS.

Site background - Tolerance limits calculated from pooled upgradient well data.

State GWPS - Groundwater Protection Standard per Georgia EPD Rule 391-3-4-.10(6)(a).

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

The background tolerance limit (TL) used to evaluate the lithium State GWPS equals the laboratory reporting limit (RL). Per the Sampling and Analysis Plan (SAP), and in accordance with the Unified Guidance, a non-parametric limit approach was used since the data set contains greater than 50% non-detect results. Using this approach, the TL equals the highest value reported, which is the laboratory RL.

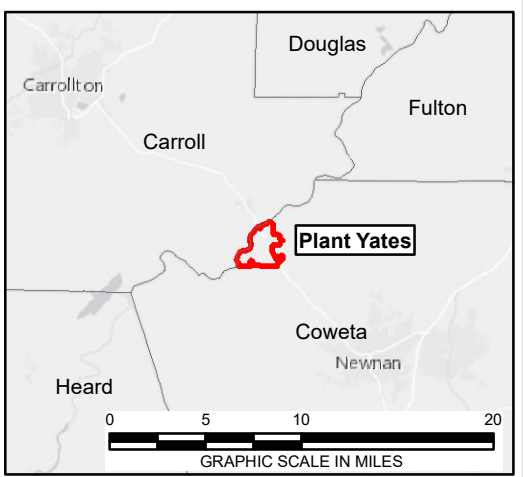
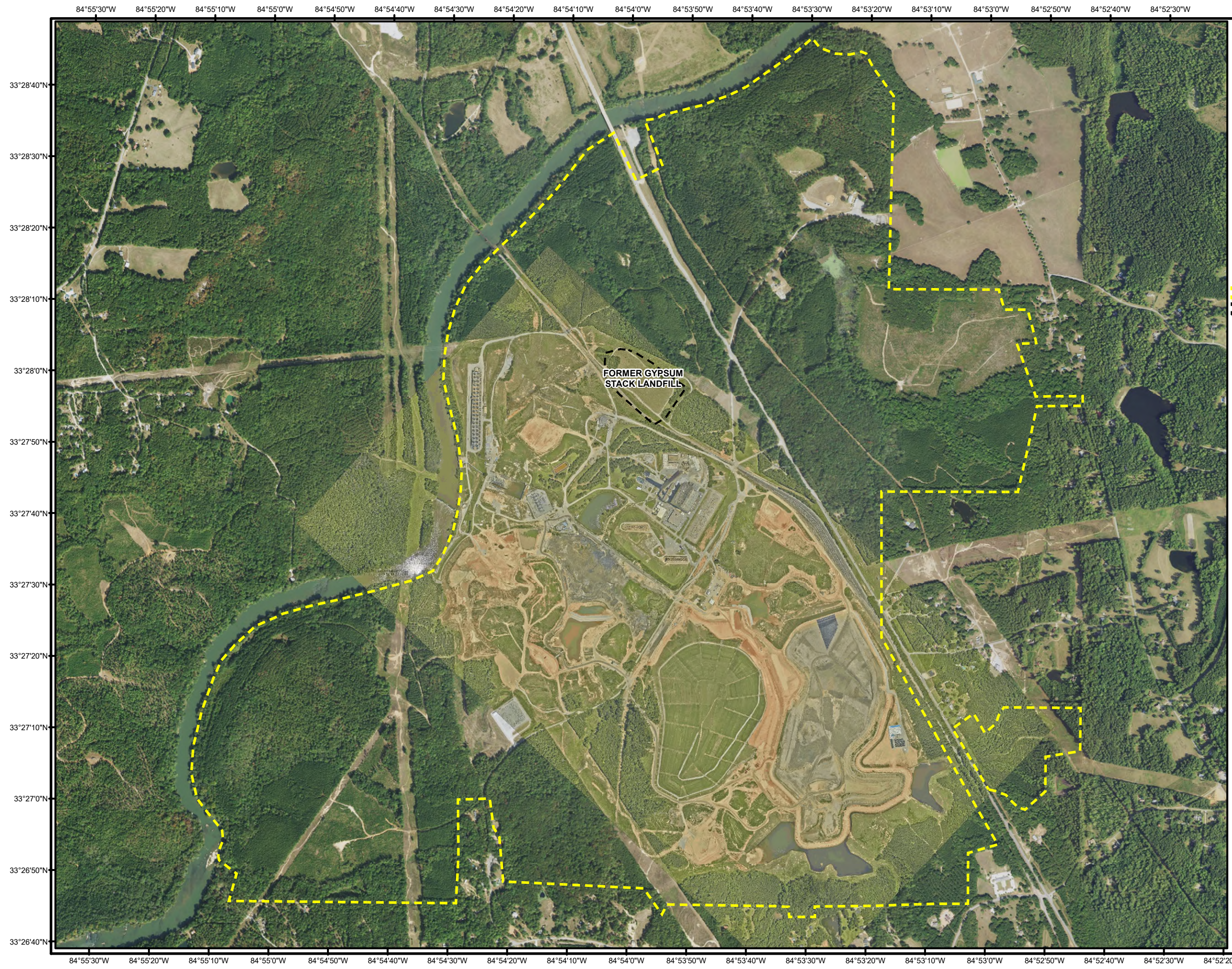
Acronyms and Abbreviations:

GWPS - Groundwater Protection Standard

mg/L - milligrams per liter

pCi/L - picocuries per liter

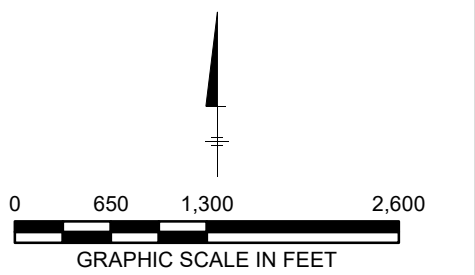
Figures



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.

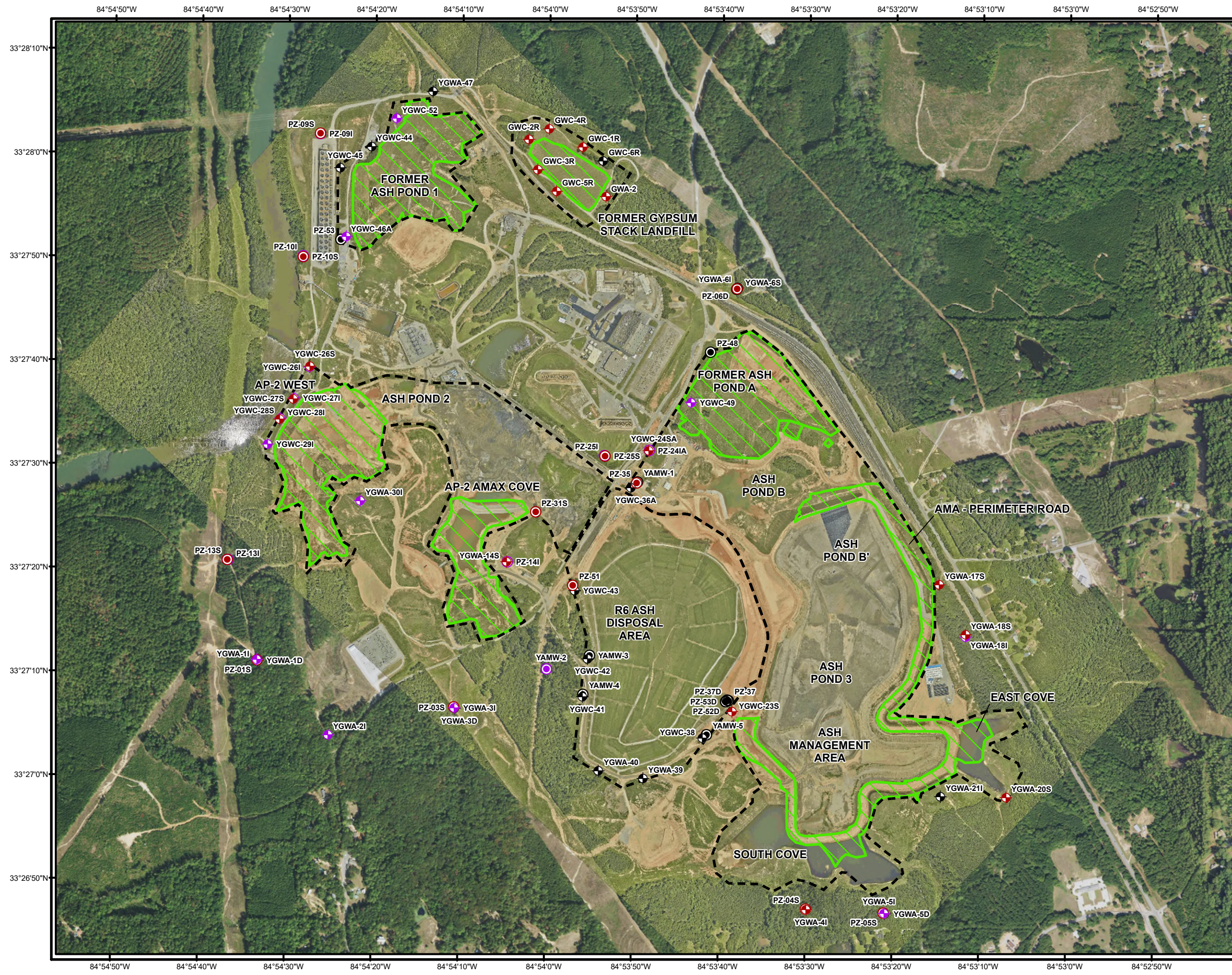


COORDINATE SYSTEM: NAD 1983 STATEPLANE
 GEORGIA WEST FIPS 1002 FEET

Georgia Power
 PLANT YATES GYPSUM LANDFILL
 NEWNAN, GA
 2021 SEMIANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT

SITE LOCATION MAP

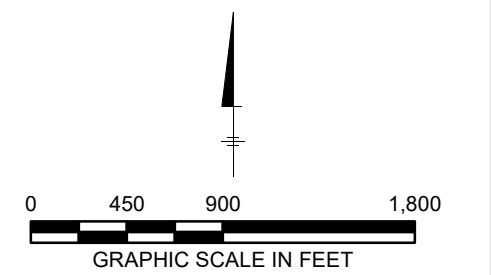
ARCADIS | **FIGURE 1**



LEGEND

- SAPROLITE NETWORK MONITORING WELL LOCATION
- TRANSITION NETWORK MONITORING WELL LOCATION
- BEDROCK NETWORK MONITORING WELL LOCATION
- SAPROLITE NON-NETWORK WELL/PIEZOMETER
- TRANSITION NON-NETWORK WELL/PIEZOMETER
- BEDROCK NON-NETWORK WELL/PIEZOMETER
- PERMITTED UNIT BOUNDARY
- AREA WHERE ASH HAS BEEN CERTIFIED REMOVED AS OF 2/28/2022

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



COORDINATE SYSTEM: NAD 1983 STATEPLANE
 GEORGIA WEST FIPS 1002 FEET




Georgia Power
 PLANT YATES GYPSUM LANDFILL
 NEWNAN, GA
 2021 SEMIANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT

PLANT YATES CCR REMOVAL AREAS

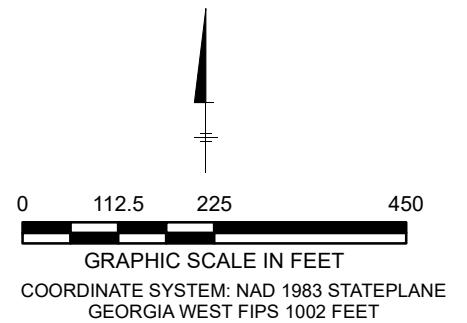
ARCADIS FIGURE
2




LEGEND

-  SAPROLITE NETWORK MONITORING
-  BEDROCK NETWORK MONITORING
-  PERMITTED UNIT BOUNDARY

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








 **Georgia Power**
 PLANT YATES GYPSUM LANDFILL
 NEWNAN, GA
 2021 SEMI-ANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT

WELL LOCATION MAP

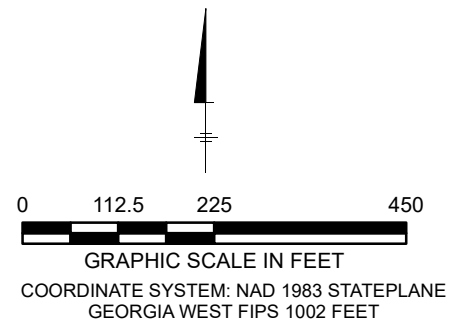




LEGEND

-  SAPROLITE NETWORK MONITORING
-  BEDROCK NETWORK MONITORING
-  PERMITTED UNIT BOUNDARY
-  APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED
-  GROUNDWATER FLOW DIRECTION
- 742.02 GROUNDWATER ELEVATION (FEET)

NOTES:

1. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).
2. AERIAL IMAGE SOURCES: JULY 1, 2021 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.



 PLANT YATES GYPSUM LANDFILL NEWNAN, GA	
2021 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT	
GROUNDWATER ELEVATION MAP AUGUST 2021	
	FIGURE 4

33°28'0"N

33°27'50"N

84°54'10"W 84°54'0"W 84°53'50"W

84°54'10"W 84°54'0"W 84°53'50"W

Appendix A

Laboratory Analytical Reports and Data Validation Reports

Georgia Power Co. – Plant Yates

Data Review Report

Metals, Radium, and General Chemistry Analyses

SDGs #92557052 and 92557081

Analyses Performed By:

Pace Analytical Services – Asheville, North Carolina

Pace Analytical Services – Peachtree Corners, Georgia

Pace Analytical Services – Greensburg, Pennsylvania

Report #43281R

Review Level: Tier II

Project: 30053438.00004

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92557052 and 92557081 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
GWC-5R	92557052001 92557081001	Water	8/18/2021		X	X	X
GWC-3R	92557052002 92557081002	Water	8/18/2021		X	X	X
G-EB-1	92557052003 92557081003	Water	8/20/2021		X	X	X
G-FB-1	92557052004 92557081004	Water	8/18/2021		X	X	X
GWC-6R	92557052005 92557081005	Water	8/18/2021		X	X	X
GWC-1R	92557052006 92557081006	Water	8/18/2021		X	X	X
GWC-4R	92557052007 92557081007	Water	8/18/2021		X	X	X
GWC-2R	92557052008 92557081008	Water	8/18/2021		X	X	X

Notes:

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

Analytical Data Package Documentation

The table below evaluates the data package completeness.

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

Note:

QA = quality assurance

Inorganic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010D, 6020B, 7470A, 9315, and 9320; Standard Method (SM) SM4500-H+ B and SM2540C; and USEPA Method 300.0. Data were reviewed in accordance with USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma–Atomic Emission Spectroscopy and Inductively Coupled Plasma–Mass Spectroscopy (September 2011, Rev. 2), and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017).

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

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

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

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

Metals Analyses

1. Holding Times

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

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

Note:

s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

Sample Locations	Analytes	Sample Result	Qualification
GWC-5R GWC-1R	Boron (FB)	Detected sample results <RL and <BAL	"UB" at the RL

Notes:

FB = Field blank

RL = Reporting limit

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

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

3.1 MS/MSD Analysis

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

The MS/MSD analysis performed using sample GWC-5R in association with SW-846 7470A analysis exhibited recoveries within the control limits.

MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 6010D and SW-846 6020B analysis.

3.2 Laboratory Duplicate Analysis

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

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with SW-846 7470A. The MS/MSD recoveries exhibited acceptable RPDs.

Laboratory duplicate or MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 6010D and SW-846 6020B analysis.

4. Field Duplicate Analysis

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

A field duplicate sample was not collected in association with this SDG.

5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

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

Data Validation Checklist for Metals

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

Notes:

%R Percent recovery

RPD Relative percent difference

General Chemistry Analyses

1. Holding Times

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

Method	Matrix	Holding Time	Preservation
pH by SM4500-H+ B	Water	ASAP	Cool to <6°C
Total Dissolved Solids (TDS) by SM2540C	Water	7 days from collection to analysis	Cool to <6°C
Chloride, Fluoride, and Sulfate by USEPA 300.0	Water	28 days from collection to analysis	Cool to <6°C

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

Sample Locations	Analytes	Sample Result	Qualification
GWC-5R GWC-3R GWC-6R	Chloride (FB)	Detected sample results >RL and <BAL	"UB" at detected sample concentration
GWC-3R	Fluoride (FB)		
GWC-5R	Fluoride (FB)	Detected sample results <RL and <BAL	"UB" at the RL

Notes:

FB = Field blank

RL = Reporting limit

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

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

3.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte’s concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

The MS/MSD analysis performed on sample location GWC-6R in association with anions analysis exhibited recoveries outside of the acceptance limits as presented in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
GWC-6R	Sulfate	AC (80%)	73%

Note:

AC = Acceptable

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

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

3.2 Laboratory Duplicate Analysis

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

The laboratory duplicate analysis performed using sample G-FB-1 in association with TDS analysis exhibited an RPD within the control limit.

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

4. Field Duplicate Analysis

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

A field duplicate sample was not collected in association with this SDG.

5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

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

Data Validation Checklist for General Chemistry

General Chemistry: SM4500-H+ B, SM2540C, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X	X		
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X	X		
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)	X				X

Notes:

%R Percent recovery

RPD Relative percent difference

Radiological Analyses

1. Holding Times

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

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

Note:

s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

Blank results should be verified to be accurately reported and that tolerance limits (± 2 sigma or standard deviation) were not exceeded; and blank results verified to be less than the 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:

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

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

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

Note:

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

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

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

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

3.1 MS Analysis

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

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

In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of $< \pm 3$ 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.

$u^2(x)$, $u^2(x_0)$, $u^2(c)$ = the squares of the respective standard uncertainties of these values.

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

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

3.2 Laboratory Duplicate Analysis

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

The numerical performance indicator for laboratory duplicates is calculated by:

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

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.

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. 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.

A field duplicate sample was not collected in association with this SDG.

5. Tracer or Carrier

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

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

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

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

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

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

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

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

$u^2(c)$ = combined standard uncertainty of the LCS value squared.

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

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

7. Isotope Identification

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

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

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

- GWC-5R, GWC-3R, G-EB-1, G-FB-1, GWC-6R, and GWC-4R – Radium-226, Radium-228, and total Radium
- GWC-1R and GWC-2R – Radium-228 and total Radium

8. System Performance and Overall Assessment

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

Data Validation Checklist for Radiologicals


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

Notes:

%R Percent recovery

RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE: 

DATE: November 24, 2021

PEER REVIEW: Dennis Capria

DATE: December 2, 2021

Chain of Custody / Data Qualifier Summary Table

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: <u>1</u> of <u>2</u>	
Company: Georgia Power		Report To: Geoff Gay		Attention: Southern Co.			
Address: Atlanta, GA		Copy To:		Company Name:			
Email To: SCS Contacts		Purchase Order #:		Address:		Regulatory Agency:	
Phone:		Project Name: Yates Gypsum Pond DG		Rate Quote:		CCR	
Requested Due Date: 10 Day		Project Number:		Rate Project Manager: Kevin Herring/Nicole D'Oleo		State / Location:	
				Rate Profile #: 10840		GA	

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 /, -) Sample IDs must be unique</small>	MATRIX CODE <small>(see valid codes to left)</small>	CODE <small>(G-COMP)</small>	COLLECTED				SAMPLE TEMP AT COLLECTION	Preservatives										Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)					
				START		END			Unpreserved	H2SO4	HClO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test	TDS: 2450C		Anions Suite 350.0	App III Metals	App IV Metals	Mercury: 7470A	Radium 226/228: 9015/9030	App I and II Metals: 6020B <small>Ca, Ni, Ag, Tl, V, Z</small>										
				DATE	TIME	DATE	TIME																												
1	G-EB-1	WT	G																																
2	G-FB-1	WT	G																																
3	GWC-5R	WT	G																																
4	GWC-5R	WT	G	08/17	1154	08/18	1248		5	X		X																							
5	GWC-1R	WT	G																																
6	GWC-3R	WT	G	08/18	1635	08/18	1712		5	X		X																							
7	GWC-4R	WT	G																																
8	GWC-2R	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)		8/17	1730		8/17/11	1730	SIO	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		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <u>JOE SWANSON</u>					
SIGNATURE of SAMPLER:					

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: Geoff Gay		Attention: Southern Co.	
Address: Atlanta, GA		Copy To:		Company Name:	
Email To: SCS Contacts		Purchase Order #:		Address:	
Phone:		Project Name: Yates Gypsum Pond <u>DG</u>		Rate Quote:	
Requested Due Date: 10 Day		Project Number:		Rate Profile #: 10840	
				Regulatory Agency	
				CCR	
				State / Location	
				GA	

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique</small>	MATRIX <small>Drinking Water: DW Water: WT Waste Water: WW Product: P Oil/Solid: O/S Wipe: WP Air: AR Dust: DT Tissue: TO</small>	CODE	COLLECTED	PRESERVATIVES	Requested Analysis Filtered (Y/N)																											
						START DATE	END TIME	SAMPLE TYPE (IG=GRAB, C=COMP)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	HClSO4	HNO3	HCl	NaOH	Na2SO3	Methanol	Other	Analytes Test	Y/N	TDS: 2450C	Anions Suite 300 0	App III Metals	App IV Metals	Mercury: 7470A	Radium: 226/228: 931609320	App I and II Metals 6020B <small>Cu, Ni, Ag, Tl, V, Z</small>	Residual Chlorine (V/L)					
																													DATE		TIME	DATE	TIME
																													DATE	TIME	DATE	TIME	
1	G-EB-1	WT	G	8/20 1220	5										X	X	X	X	X	X	X												
2	G-FB-1	WT	G	8/18 1240	5										X	X	X	X	X	X	X												
3	GWC-6R	WT	G	8/18 0945	5										X	X	X	X	X	X	X												
4	GWC-6R	WT	G												X	X	X	X	X	X	X												
5	GWC-1R	WT	G	8/18 1225	5										X	X	X	X	X	X	X												
6	GWC-6R	WT	G												X	X	X	X	X	X	X												
7	GWC-4R	WT	G	8/18 1425	5										X	X	X	X	X	X	X												
8	GWC-2R	WT	G	8/18 1630	5										X	X	X	X	X	X	X												
9																																	
10																																	
11																																	
12																																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300 0 (Cl, F, Sulfate)	<i>[Signature]</i> Arcadis	8/20	1730	<i>[Signature]</i> 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		TEMP in C	Received on Ice (Y/N)	Sealed (Y/N)	Cooled (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER:	<u>Jake Swanson</u>					
SIGNATURE of SAMPLER:	<i>[Signature]</i>					
DATE Signed: <u>8/20/12</u>						

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92557052	No qualifiers assigned						
92557081	GWC-5R	SW846 6020B	Boron	0.040	mg/L	UB	Blank contamination
		EPA 300.0	Chloride	2.3	mg/L	UB	Blank contamination
			Fluoride	0.10	mg/L	UB	Blank contamination
	GWC-3R	EPA 300.0	Chloride	4.6	mg/L	UB	Blank contamination
			Fluoride	0.16	mg/L	UB	Blank contamination
	GWC-6R	EPA 300.0	Chloride	5.4	mg/L	UB	Blank contamination
			Sulfate	345	mg/L	J	MSD %R <LCL
	GWC-1R	SW846 6020B	Boron	0.040	mg/L	UB	Blank contamination
EPA 300.0		Chloride	5.2	mg/L	UB	Blank contamination	

Abbreviations:

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

Qualifiers:

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

September 02, 2021

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

RE: Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

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@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

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CERTIFICATIONS

Project: YATES GYPSUM POND DG

Pace Project No.: 92557081

Pace Analytical Services Charlotte

9800 Kinsey 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

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SAMPLE SUMMARY

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92557081001	GWC-5R	Water	08/18/21 12:48	08/20/21 17:30
92557081002	GWC-3R	Water	08/18/21 17:12	08/20/21 17:30
92557081003	G-EB-1	Water	08/20/21 12:20	08/20/21 17:30
92557081004	G-FB-1	Water	08/18/21 12:40	08/20/21 17:30
92557081005	GWC-6R	Water	08/18/21 09:45	08/20/21 17:30
92557081006	GWC-1R	Water	08/18/21 12:25	08/20/21 17:30
92557081007	GWC-4R	Water	08/18/21 14:25	08/20/21 17:30
92557081008	GWC-2R	Water	08/18/21 16:30	08/20/21 17:30

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES GYPSUM POND DG

Pace Project No.: 92557081

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92557081001	GWC-5R	EPA 6010D	DRB	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557081002	GWC-3R	EPA 6010D	DRB	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557081003	G-EB-1	EPA 6010D	DRB	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557081004	G-FB-1	EPA 6010D	DRB	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557081005	GWC-6R	EPA 6010D	DRB	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557081006	GWC-1R	EPA 6010D	DRB	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557081007	GWC-4R	EPA 6010D	DRB	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92557081008	GWC-2R	EPA 6010D	DRB	1
		EPA 6020B	CW1	18

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES GYPSUM POND DG

Pace Project No.: 92557081

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

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES GYPSUM POND DG

Pace Project No.: 92557081

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92557081001	GWC-5R					
	Performed by	CUSTOMER			08/23/21 16:59	
	pH	4.76	Std. Units		08/23/21 16:59	
EPA 6010D	Calcium	159	mg/L	1.0	08/26/21 14:08	
EPA 6020B	Arsenic	0.0021J	mg/L	0.0050	08/31/21 15:59	
EPA 6020B	Barium	0.013	mg/L	0.0050	08/31/21 15:59	
EPA 6020B	Beryllium	0.0033	mg/L	0.00050	08/31/21 15:59	
EPA 6020B	Boron	0.021J	mg/L	0.040	08/31/21 15:59	
EPA 6020B	Cadmium	0.0010	mg/L	0.00050	08/31/21 15:59	
EPA 6020B	Chromium	0.0023J	mg/L	0.0050	08/31/21 15:59	
EPA 6020B	Cobalt	0.00053J	mg/L	0.0050	08/31/21 15:59	
EPA 6020B	Copper	0.0022J	mg/L	0.0050	08/31/21 15:59	
EPA 6020B	Lithium	0.0016J	mg/L	0.030	08/31/21 15:59	
EPA 6020B	Nickel	0.0016J	mg/L	0.0050	08/31/21 15:59	
EPA 6020B	Selenium	0.017	mg/L	0.0050	08/31/21 15:59	
EPA 6020B	Silver	0.00084J	mg/L	0.0050	08/31/21 15:59	
EPA 6020B	Zinc	0.026	mg/L	0.010	08/31/21 15:59	
SM 2540C-2011	Total Dissolved Solids	1660	mg/L	50.0	08/25/21 19:42	
EPA 300.0 Rev 2.1 1993	Chloride	2.3	mg/L	1.0	08/29/21 04:49	
EPA 300.0 Rev 2.1 1993	Fluoride	0.056J	mg/L	0.10	08/29/21 04:49	
EPA 300.0 Rev 2.1 1993	Sulfate	946	mg/L	22.0	08/29/21 14:31	
92557081002	GWC-3R					
	Performed by	CUSTOMER			08/23/21 17:00	
	pH	4.73	Std. Units		08/23/21 17:00	
EPA 6010D	Calcium	20.2	mg/L	1.0	08/26/21 14:13	
EPA 6020B	Arsenic	0.0028J	mg/L	0.0050	08/31/21 16:05	
EPA 6020B	Barium	0.014	mg/L	0.0050	08/31/21 16:05	
EPA 6020B	Beryllium	0.0011	mg/L	0.00050	08/31/21 16:05	
EPA 6020B	Cadmium	0.00022J	mg/L	0.00050	08/31/21 16:05	
EPA 6020B	Cobalt	0.010	mg/L	0.0050	08/31/21 16:05	
EPA 6020B	Lithium	0.0010J	mg/L	0.030	08/31/21 16:05	
EPA 6020B	Selenium	0.017	mg/L	0.0050	08/31/21 16:05	
EPA 6020B	Zinc	0.011	mg/L	0.010	08/31/21 16:05	
SM 2540C-2011	Total Dissolved Solids	214	mg/L	10.0	08/25/21 19:42	
EPA 300.0 Rev 2.1 1993	Chloride	4.6	mg/L	1.0	08/29/21 05:05	
EPA 300.0 Rev 2.1 1993	Fluoride	0.16	mg/L	0.10	08/29/21 05:05	
EPA 300.0 Rev 2.1 1993	Sulfate	114	mg/L	3.0	08/29/21 14:46	
92557081004	G-FB-1					
EPA 6010D	Calcium	1.1	mg/L	1.0	08/26/21 14:35	
EPA 6020B	Boron	0.022J	mg/L	0.040	08/31/21 16:16	
SM 2540C-2011	Total Dissolved Solids	22.0	mg/L	10.0	08/25/21 19:42	D6
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	08/29/21 05:36	
EPA 300.0 Rev 2.1 1993	Fluoride	0.098J	mg/L	0.10	08/29/21 05:36	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES GYPSUM POND DG

Pace Project No.: 92557081

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92557081005	GWC-6R					
	Performed by	CUSTOME			08/23/21 17:00	
		R				
	pH	5.82	Std. Units		08/23/21 17:00	
EPA 6010D	Calcium	74.5	mg/L	1.0	08/26/21 14:40	
EPA 6020B	Barium	0.035	mg/L	0.0050	08/31/21 16:34	
EPA 6020B	Chromium	0.0015J	mg/L	0.0050	08/31/21 16:34	
EPA 6020B	Copper	0.00083J	mg/L	0.0050	08/31/21 16:34	
EPA 6020B	Lithium	0.0016J	mg/L	0.030	08/31/21 16:34	
EPA 6020B	Nickel	0.0012J	mg/L	0.0050	08/31/21 16:34	
EPA 6020B	Selenium	0.0016J	mg/L	0.0050	08/31/21 16:34	
SM 2540C-2011	Total Dissolved Solids	682	mg/L	20.0	08/25/21 19:42	
EPA 300.0 Rev 2.1 1993	Chloride	5.4	mg/L	1.0	08/29/21 06:22	
EPA 300.0 Rev 2.1 1993	Sulfate	345	mg/L	8.0	08/29/21 15:32	M1
92557081006	GWC-1R					
	Performed by	CUSTOME			08/23/21 17:00	
		R				
	pH	5.08	Std. Units		08/23/21 17:00	
EPA 6010D	Calcium	154	mg/L	1.0	08/26/21 14:44	
EPA 6020B	Arsenic	0.0016J	mg/L	0.0050	08/31/21 16:39	
EPA 6020B	Barium	0.076	mg/L	0.0050	08/31/21 16:39	
EPA 6020B	Beryllium	0.00030J	mg/L	0.00050	08/31/21 16:39	
EPA 6020B	Boron	0.029J	mg/L	0.040	08/31/21 16:39	
EPA 6020B	Cadmium	0.00017J	mg/L	0.00050	08/31/21 16:39	
EPA 6020B	Chromium	0.0015J	mg/L	0.0050	08/31/21 16:39	
EPA 6020B	Cobalt	0.0014J	mg/L	0.0050	08/31/21 16:39	
EPA 6020B	Copper	0.00067J	mg/L	0.0050	08/31/21 16:39	
EPA 6020B	Lithium	0.0019J	mg/L	0.030	08/31/21 16:39	
EPA 6020B	Nickel	0.0028J	mg/L	0.0050	08/31/21 16:39	
EPA 6020B	Selenium	0.019	mg/L	0.0050	08/31/21 16:39	
SM 2540C-2011	Total Dissolved Solids	1200	mg/L	20.0	08/25/21 19:42	
EPA 300.0 Rev 2.1 1993	Chloride	5.2	mg/L	1.0	08/29/21 07:08	
EPA 300.0 Rev 2.1 1993	Sulfate	675	mg/L	15.0	08/29/21 16:18	
92557081007	GWC-4R					
	Performed by	CUSTOME			08/23/21 17:00	
		R				
	pH	5.46	Std. Units		08/23/21 17:00	
EPA 6010D	Calcium	56.2	mg/L	1.0	08/26/21 14:49	
EPA 6020B	Barium	0.040	mg/L	0.0050	08/31/21 16:45	
EPA 6020B	Beryllium	0.00011J	mg/L	0.00050	08/31/21 16:45	
EPA 6020B	Boron	4.5	mg/L	0.040	08/31/21 16:45	
EPA 6020B	Cobalt	0.0027J	mg/L	0.0050	08/31/21 16:45	
EPA 6020B	Lithium	0.00085J	mg/L	0.030	08/31/21 16:45	
EPA 6020B	Nickel	0.0026J	mg/L	0.0050	08/31/21 16:45	
EPA 6020B	Selenium	0.0046J	mg/L	0.0050	08/31/21 16:45	
SM 2540C-2011	Total Dissolved Solids	630	mg/L	20.0	08/25/21 19:43	
EPA 300.0 Rev 2.1 1993	Chloride	150	mg/L	3.0	08/29/21 16:33	
EPA 300.0 Rev 2.1 1993	Sulfate	118	mg/L	3.0	08/29/21 16:33	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92557081008	GWC-2R					
	Performed by	CUSTOME			08/23/21 17:00	
		R				
	pH	4.96	Std. Units		08/23/21 17:00	
EPA 6010D	Calcium	45.8	mg/L	1.0	08/26/21 14:54	
EPA 6020B	Barium	0.033	mg/L	0.0050	08/31/21 16:51	
EPA 6020B	Beryllium	0.00022J	mg/L	0.00050	08/31/21 16:51	
EPA 6020B	Boron	0.14	mg/L	0.040	08/31/21 16:51	
EPA 6020B	Cadmium	0.00016J	mg/L	0.00050	08/31/21 16:51	
EPA 6020B	Cobalt	0.00066J	mg/L	0.0050	08/31/21 16:51	
EPA 6020B	Lithium	0.0049J	mg/L	0.030	08/31/21 16:51	
EPA 6020B	Selenium	0.0042J	mg/L	0.0050	08/31/21 16:51	
SM 2540C-2011	Total Dissolved Solids	474	mg/L	10.0	08/25/21 19:43	
EPA 300.0 Rev 2.1 1993	Chloride	26.2	mg/L	1.0	08/29/21 07:39	
EPA 300.0 Rev 2.1 1993	Sulfate	223	mg/L	5.0	08/29/21 16:48	

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ANALYTICAL RESULTS

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Sample: GWC-5R		Lab ID: 92557081001		Collected: 08/18/21 12:48		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 16:59		
pH	4.76	Std. Units			1		08/23/21 16:59		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	159	mg/L	1.0	0.12	1	08/26/21 09:58	08/26/21 14:08	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	08/26/21 09:56	08/31/21 15:59	7440-36-0	
Arsenic	0.0021J	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 15:59	7440-38-2	
Barium	0.013	mg/L	0.0050	0.00067	1	08/26/21 09:56	08/31/21 15:59	7440-39-3	
Beryllium	0.0033	mg/L	0.00050	0.000054	1	08/26/21 09:56	08/31/21 15:59	7440-41-7	
Boron	0.021J	mg/L	0.040	0.0086	1	08/26/21 09:56	08/31/21 15:59	7440-42-8	
Cadmium	0.0010	mg/L	0.00050	0.00011	1	08/26/21 09:56	08/31/21 15:59	7440-43-9	
Chromium	0.0023J	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 15:59	7440-47-3	
Cobalt	0.00053J	mg/L	0.0050	0.00039	1	08/26/21 09:56	08/31/21 15:59	7440-48-4	
Copper	0.0022J	mg/L	0.0050	0.00050	1	08/26/21 09:56	08/31/21 15:59	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	08/26/21 09:56	08/31/21 15:59	7439-92-1	
Lithium	0.0016J	mg/L	0.030	0.00073	1	08/26/21 09:56	08/31/21 15:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/26/21 09:56	08/31/21 15:59	7439-98-7	
Nickel	0.0016J	mg/L	0.0050	0.00071	1	08/26/21 09:56	08/31/21 15:59	7440-02-0	
Selenium	0.017	mg/L	0.0050	0.0014	1	08/26/21 09:56	08/31/21 15:59	7782-49-2	
Silver	0.00084J	mg/L	0.0050	0.00044	1	08/26/21 09:56	08/31/21 15:59	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	08/26/21 09:56	08/31/21 15:59	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	08/26/21 09:56	08/31/21 15:59	7440-62-2	
Zinc	0.026	mg/L	0.010	0.0070	1	08/26/21 09:56	08/31/21 15:59	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	08/30/21 12:30	08/31/21 11:04	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1660	mg/L	50.0	50.0	1		08/25/21 19:42		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	2.3	mg/L	1.0	0.60	1		08/29/21 04:49	16887-00-6	
Fluoride	0.056J	mg/L	0.10	0.050	1		08/29/21 04:49	16984-48-8	
Sulfate	946	mg/L	22.0	11.0	22		08/29/21 14:31	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Sample: GWC-3R		Lab ID: 92557081002		Collected: 08/18/21 17:12		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 17:00		
pH	4.73	Std. Units			1		08/23/21 17:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	20.2	mg/L	1.0	0.12	1	08/26/21 09:58	08/26/21 14:13	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	08/26/21 09:56	08/31/21 16:05	7440-36-0	
Arsenic	0.0028J	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 16:05	7440-38-2	
Barium	0.014	mg/L	0.0050	0.00067	1	08/26/21 09:56	08/31/21 16:05	7440-39-3	
Beryllium	0.0011	mg/L	0.00050	0.000054	1	08/26/21 09:56	08/31/21 16:05	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/26/21 09:56	08/31/21 16:05	7440-42-8	
Cadmium	0.00022J	mg/L	0.00050	0.00011	1	08/26/21 09:56	08/31/21 16:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 16:05	7440-47-3	
Cobalt	0.010	mg/L	0.0050	0.00039	1	08/26/21 09:56	08/31/21 16:05	7440-48-4	
Copper	ND	mg/L	0.0050	0.00050	1	08/26/21 09:56	08/31/21 16:05	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	08/26/21 09:56	08/31/21 16:05	7439-92-1	
Lithium	0.0010J	mg/L	0.030	0.00073	1	08/26/21 09:56	08/31/21 16:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/26/21 09:56	08/31/21 16:05	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	08/26/21 09:56	08/31/21 16:05	7440-02-0	
Selenium	0.017	mg/L	0.0050	0.0014	1	08/26/21 09:56	08/31/21 16:05	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	08/26/21 09:56	08/31/21 16:05	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	08/26/21 09:56	08/31/21 16:05	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	08/26/21 09:56	08/31/21 16:05	7440-62-2	
Zinc	0.011	mg/L	0.010	0.0070	1	08/26/21 09:56	08/31/21 16:05	7440-66-6	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.000078	1	08/30/21 12:30	08/31/21 11:15	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	214	mg/L	10.0	10.0	1		08/25/21 19:42		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	4.6	mg/L	1.0	0.60	1		08/29/21 05:05	16887-00-6	
Fluoride	0.16	mg/L	0.10	0.050	1		08/29/21 05:05	16984-48-8	
Sulfate	114	mg/L	3.0	1.5	3		08/29/21 14:46	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Sample: G-EB-1		Lab ID: 92557081003		Collected: 08/20/21 12:20		Received: 08/20/21 17:30		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	08/26/21 09:58	08/26/21 14:18	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	08/26/21 09:56	08/31/21 16:11	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 16:11	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	08/26/21 09:56	08/31/21 16:11	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	08/26/21 09:56	08/31/21 16:11	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	08/26/21 09:56	08/31/21 16:11	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	08/26/21 09:56	08/31/21 16:11	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 16:11	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	08/26/21 09:56	08/31/21 16:11	7440-48-4		
Copper	ND	mg/L	0.0050	0.00050	1	08/26/21 09:56	08/31/21 16:11	7440-50-8		
Lead	ND	mg/L	0.0010	0.00089	1	08/26/21 09:56	08/31/21 16:11	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	08/26/21 09:56	08/31/21 16:11	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	08/26/21 09:56	08/31/21 16:11	7439-98-7		
Nickel	ND	mg/L	0.0050	0.00071	1	08/26/21 09:56	08/31/21 16:11	7440-02-0		
Selenium	ND	mg/L	0.0050	0.0014	1	08/26/21 09:56	08/31/21 16:11	7782-49-2		
Silver	ND	mg/L	0.0050	0.00044	1	08/26/21 09:56	08/31/21 16:11	7440-22-4		
Thallium	ND	mg/L	0.0010	0.00018	1	08/26/21 09:56	08/31/21 16:11	7440-28-0		
Vanadium	ND	mg/L	0.010	0.0019	1	08/26/21 09:56	08/31/21 16:11	7440-62-2		
Zinc	ND	mg/L	0.010	0.0070	1	08/26/21 09:56	08/31/21 16:11	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 11:18	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		08/26/21 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 05:20	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		08/29/21 05:20	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		08/29/21 05:20	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Sample: G-FB-1		Lab ID: 92557081004		Collected: 08/18/21 12:40		Received: 08/20/21 17:30		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D ATL ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	1.1	mg/L	1.0	0.12	1	08/26/21 09:58	08/26/21 14:35	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	08/26/21 09:56	08/31/21 16:16	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 16:16	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	08/26/21 09:56	08/31/21 16:16	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	08/26/21 09:56	08/31/21 16:16	7440-41-7		
Boron	0.022J	mg/L	0.040	0.0086	1	08/26/21 09:56	08/31/21 16:16	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	08/26/21 09:56	08/31/21 16:16	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 16:16	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	08/26/21 09:56	08/31/21 16:16	7440-48-4		
Copper	ND	mg/L	0.0050	0.00050	1	08/26/21 09:56	08/31/21 16:16	7440-50-8		
Lead	ND	mg/L	0.0010	0.00089	1	08/26/21 09:56	08/31/21 16:16	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	08/26/21 09:56	08/31/21 16:16	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	08/26/21 09:56	08/31/21 16:16	7439-98-7		
Nickel	ND	mg/L	0.0050	0.00071	1	08/26/21 09:56	08/31/21 16:16	7440-02-0		
Selenium	ND	mg/L	0.0050	0.0014	1	08/26/21 09:56	08/31/21 16:16	7782-49-2		
Silver	ND	mg/L	0.0050	0.00044	1	08/26/21 09:56	08/31/21 16:16	7440-22-4		
Thallium	ND	mg/L	0.0010	0.00018	1	08/26/21 09:56	08/31/21 16:16	7440-28-0		
Vanadium	ND	mg/L	0.010	0.0019	1	08/26/21 09:56	08/31/21 16:16	7440-62-2		
Zinc	ND	mg/L	0.010	0.0070	1	08/26/21 09:56	08/31/21 16:16	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 11:21	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	22.0	mg/L	10.0	10.0	1		08/25/21 19:42		D6	
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		08/29/21 05:36	16887-00-6		
Fluoride	0.098J	mg/L	0.10	0.050	1		08/29/21 05:36	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		08/29/21 05:36	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Sample: GWC-6R		Lab ID: 92557081005		Collected: 08/18/21 09:45		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 17:00		
pH	5.82	Std. Units			1		08/23/21 17:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	74.5	mg/L	1.0	0.12	1	08/26/21 09:58	08/26/21 14:40	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	08/26/21 09:56	08/31/21 16:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 16:34	7440-38-2	
Barium	0.035	mg/L	0.0050	0.00067	1	08/26/21 09:56	08/31/21 16:34	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	08/26/21 09:56	08/31/21 16:34	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	08/26/21 09:56	08/31/21 16:34	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/26/21 09:56	08/31/21 16:34	7440-43-9	
Chromium	0.0015J	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 16:34	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	08/26/21 09:56	08/31/21 16:34	7440-48-4	
Copper	0.00083J	mg/L	0.0050	0.00050	1	08/26/21 09:56	08/31/21 16:34	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	08/26/21 09:56	08/31/21 16:34	7439-92-1	
Lithium	0.0016J	mg/L	0.030	0.00073	1	08/26/21 09:56	08/31/21 16:34	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/26/21 09:56	08/31/21 16:34	7439-98-7	
Nickel	0.0012J	mg/L	0.0050	0.00071	1	08/26/21 09:56	08/31/21 16:34	7440-02-0	
Selenium	0.0016J	mg/L	0.0050	0.0014	1	08/26/21 09:56	08/31/21 16:34	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	08/26/21 09:56	08/31/21 16:34	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	08/26/21 09:56	08/31/21 16:34	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	08/26/21 09:56	08/31/21 16:34	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	08/26/21 09:56	08/31/21 16:34	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 11:29	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	682	mg/L	20.0	20.0	1		08/25/21 19:42		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	5.4	mg/L	1.0	0.60	1		08/29/21 06:22	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/29/21 06:22	16984-48-8	
Sulfate	345	mg/L	8.0	4.0	8		08/29/21 15:32	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Sample: GWC-1R		Lab ID: 92557081006		Collected: 08/18/21 12:25		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 17:00		
pH	5.08	Std. Units			1		08/23/21 17:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	154	mg/L	1.0	0.12	1	08/26/21 09:58	08/26/21 14:44	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	08/26/21 09:56	08/31/21 16:39	7440-36-0	
Arsenic	0.0016J	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 16:39	7440-38-2	
Barium	0.076	mg/L	0.0050	0.00067	1	08/26/21 09:56	08/31/21 16:39	7440-39-3	
Beryllium	0.00030J	mg/L	0.00050	0.000054	1	08/26/21 09:56	08/31/21 16:39	7440-41-7	
Boron	0.029J	mg/L	0.040	0.0086	1	08/26/21 09:56	08/31/21 16:39	7440-42-8	
Cadmium	0.00017J	mg/L	0.00050	0.00011	1	08/26/21 09:56	08/31/21 16:39	7440-43-9	
Chromium	0.0015J	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 16:39	7440-47-3	
Cobalt	0.0014J	mg/L	0.0050	0.00039	1	08/26/21 09:56	08/31/21 16:39	7440-48-4	
Copper	0.00067J	mg/L	0.0050	0.00050	1	08/26/21 09:56	08/31/21 16:39	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	08/26/21 09:56	08/31/21 16:39	7439-92-1	
Lithium	0.0019J	mg/L	0.030	0.00073	1	08/26/21 09:56	08/31/21 16:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/26/21 09:56	08/31/21 16:39	7439-98-7	
Nickel	0.0028J	mg/L	0.0050	0.00071	1	08/26/21 09:56	08/31/21 16:39	7440-02-0	
Selenium	0.019	mg/L	0.0050	0.0014	1	08/26/21 09:56	08/31/21 16:39	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	08/26/21 09:56	08/31/21 16:39	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	08/26/21 09:56	08/31/21 16:39	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	08/26/21 09:56	08/31/21 16:39	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	08/26/21 09:56	08/31/21 16:39	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 11:32	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	1200	mg/L	20.0	20.0	1		08/25/21 19:42		
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		08/29/21 07:08	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/29/21 07:08	16984-48-8	
Sulfate	675	mg/L	15.0	7.5	15		08/29/21 16:18	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Sample: GWC-4R		Lab ID: 92557081007		Collected: 08/18/21 14:25		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 17:00		
pH	5.46	Std. Units			1		08/23/21 17:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	56.2	mg/L	1.0	0.12	1	08/26/21 09:58	08/26/21 14:49	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	08/26/21 09:56	08/31/21 16:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 16:45	7440-38-2	
Barium	0.040	mg/L	0.0050	0.00067	1	08/26/21 09:56	08/31/21 16:45	7440-39-3	
Beryllium	0.00011J	mg/L	0.00050	0.000054	1	08/26/21 09:56	08/31/21 16:45	7440-41-7	
Boron	4.5	mg/L	0.040	0.0086	1	08/26/21 09:56	08/31/21 16:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	08/26/21 09:56	08/31/21 16:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 16:45	7440-47-3	
Cobalt	0.0027J	mg/L	0.0050	0.00039	1	08/26/21 09:56	08/31/21 16:45	7440-48-4	
Copper	ND	mg/L	0.0050	0.00050	1	08/26/21 09:56	08/31/21 16:45	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	08/26/21 09:56	08/31/21 16:45	7439-92-1	
Lithium	0.00085J	mg/L	0.030	0.00073	1	08/26/21 09:56	08/31/21 16:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/26/21 09:56	08/31/21 16:45	7439-98-7	
Nickel	0.0026J	mg/L	0.0050	0.00071	1	08/26/21 09:56	08/31/21 16:45	7440-02-0	
Selenium	0.0046J	mg/L	0.0050	0.0014	1	08/26/21 09:56	08/31/21 16:45	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	08/26/21 09:56	08/31/21 16:45	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	08/26/21 09:56	08/31/21 16:45	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	08/26/21 09:56	08/31/21 16:45	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	08/26/21 09:56	08/31/21 16:45	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 11:35	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	630	mg/L	20.0	20.0	1		08/25/21 19:43		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	150	mg/L	3.0	1.8	3		08/29/21 16:33	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/29/21 07:24	16984-48-8	
Sulfate	118	mg/L	3.0	1.5	3		08/29/21 16:33	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Sample: GWC-2R		Lab ID: 92557081008		Collected: 08/18/21 16:30		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 17:00		
pH	4.96	Std. Units			1		08/23/21 17:00		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	45.8	mg/L	1.0	0.12	1	08/26/21 09:58	08/26/21 14:54	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	08/26/21 09:56	08/31/21 16:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 16:51	7440-38-2	
Barium	0.033	mg/L	0.0050	0.00067	1	08/26/21 09:56	08/31/21 16:51	7440-39-3	
Beryllium	0.00022J	mg/L	0.00050	0.000054	1	08/26/21 09:56	08/31/21 16:51	7440-41-7	
Boron	0.14	mg/L	0.040	0.0086	1	08/26/21 09:56	08/31/21 16:51	7440-42-8	
Cadmium	0.00016J	mg/L	0.00050	0.00011	1	08/26/21 09:56	08/31/21 16:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	08/26/21 09:56	08/31/21 16:51	7440-47-3	
Cobalt	0.00066J	mg/L	0.0050	0.00039	1	08/26/21 09:56	08/31/21 16:51	7440-48-4	
Copper	ND	mg/L	0.0050	0.00050	1	08/26/21 09:56	08/31/21 16:51	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	08/26/21 09:56	08/31/21 16:51	7439-92-1	
Lithium	0.0049J	mg/L	0.030	0.00073	1	08/26/21 09:56	08/31/21 16:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	08/26/21 09:56	08/31/21 16:51	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	08/26/21 09:56	08/31/21 16:51	7440-02-0	
Selenium	0.0042J	mg/L	0.0050	0.0014	1	08/26/21 09:56	08/31/21 16:51	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	08/26/21 09:56	08/31/21 16:51	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	08/26/21 09:56	08/31/21 16:51	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	08/26/21 09:56	08/31/21 16:51	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	08/26/21 09:56	08/31/21 16:51	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 11:38	7439-97-6	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	474	mg/L	10.0	10.0	1		08/25/21 19:43		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	26.2	mg/L	1.0	0.60	1		08/29/21 07:39	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/29/21 07:39	16984-48-8	
Sulfate	223	mg/L	5.0	2.5	5		08/29/21 16:48	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

QC Batch:	643161	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92557081001, 92557081002, 92557081003, 92557081004, 92557081005, 92557081006, 92557081007, 92557081008

METHOD BLANK: 3374851 Matrix: Water
Associated Lab Samples: 92557081001, 92557081002, 92557081003, 92557081004, 92557081005, 92557081006, 92557081007, 92557081008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/26/21 12:37	

LABORATORY CONTROL SAMPLE: 3374852

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: 3374853 3374854

Parameter	Units	92555938008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	139	1	1	137	134	-232	-508	75-125	2	20	M1

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

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QUALITY CONTROL DATA

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

QC Batch: 643162 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92557081001, 92557081002, 92557081003, 92557081004, 92557081005, 92557081006, 92557081007, 92557081008

METHOD BLANK: 3374855 Matrix: Water
Associated Lab Samples: 92557081001, 92557081002, 92557081003, 92557081004, 92557081005, 92557081006, 92557081007, 92557081008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	08/31/21 14:14	
Arsenic	mg/L	ND	0.0050	0.0011	08/31/21 14:14	
Barium	mg/L	ND	0.0050	0.00067	08/31/21 14:14	
Beryllium	mg/L	ND	0.00050	0.000054	08/31/21 14:14	
Boron	mg/L	ND	0.040	0.0086	08/31/21 14:14	
Cadmium	mg/L	ND	0.00050	0.00011	08/31/21 14:14	
Chromium	mg/L	ND	0.0050	0.0011	08/31/21 14:14	
Cobalt	mg/L	ND	0.0050	0.00039	08/31/21 14:14	
Copper	mg/L	ND	0.0050	0.00050	08/31/21 14:14	
Lead	mg/L	ND	0.0010	0.00089	08/31/21 14:14	
Lithium	mg/L	ND	0.030	0.00073	08/31/21 14:14	
Molybdenum	mg/L	ND	0.010	0.00074	08/31/21 14:14	
Nickel	mg/L	ND	0.0050	0.00071	08/31/21 14:14	
Selenium	mg/L	ND	0.0050	0.0014	08/31/21 14:14	
Silver	mg/L	ND	0.0050	0.00044	08/31/21 14:14	
Thallium	mg/L	ND	0.0010	0.00018	08/31/21 14:14	
Vanadium	mg/L	ND	0.010	0.0019	08/31/21 14:14	
Zinc	mg/L	ND	0.010	0.0070	08/31/21 14:14	

LABORATORY CONTROL SAMPLE: 3374856

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	0.099	99	80-120	
Barium	mg/L	0.1	0.095	95	80-120	
Beryllium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	0.96	96	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Copper	mg/L	0.1	0.10	100	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.097	97	80-120	
Nickel	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.099	99	80-120	
Silver	mg/L	0.1	0.097	97	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

LABORATORY CONTROL SAMPLE: 3374856

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	mg/L	0.1	0.094	94	80-120	
Vanadium	mg/L	0.1	0.10	104	80-120	
Zinc	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3374857 3374858

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92555938008 Result	Spike Conc.	Spike Conc.	Conc.								
Antimony	mg/L	ND	0.1	0.1	0.10	0.098	100	98	75-125	2	20		
Arsenic	mg/L	ND	0.1	0.1	0.10	0.098	100	98	75-125	2	20		
Barium	mg/L	0.27	0.1	0.1	0.36	0.35	89	86	75-125	1	20		
Beryllium	mg/L	ND	0.1	0.1	0.090	0.093	90	93	75-125	3	20		
Boron	mg/L	0.011J	1	1	0.90	0.92	89	91	75-125	2	20		
Cadmium	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.11	101	105	75-125	4	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20		
Copper	mg/L	ND	0.1	0.1	0.095	0.098	95	98	75-125	2	20		
Lead	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20		
Lithium	mg/L	0.0032J	0.1	0.1	0.096	0.099	93	96	75-125	3	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	103	75-125	2	20		
Nickel	mg/L	ND	0.1	0.1	0.10	0.10	100	102	75-125	2	20		
Selenium	mg/L	ND	0.1	0.1	0.099	0.098	98	97	75-125	1	20		
Silver	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20		
Thallium	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20		
Vanadium	mg/L	ND	0.1	0.1	0.11	0.11	106	107	75-125	1	20		
Zinc	mg/L	ND	0.1	0.1	0.099	0.10	99	99	75-125	0	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

QC Batch:	643872	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92557081001, 92557081002, 92557081003, 92557081004, 92557081005, 92557081006, 92557081007, 92557081008

METHOD BLANK: 3378197 Matrix: Water
Associated Lab Samples: 92557081001, 92557081002, 92557081003, 92557081004, 92557081005, 92557081006, 92557081007, 92557081008

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

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QUALITY CONTROL DATA

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

QC Batch:	642674	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: 92557081001, 92557081002, 92557081004, 92557081005, 92557081006, 92557081007, 92557081008

METHOD BLANK: 3372854 Matrix: Water
Associated Lab Samples: 92557081001, 92557081002, 92557081004, 92557081005, 92557081006, 92557081007, 92557081008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	08/25/21 19:40	

LABORATORY CONTROL SAMPLE: 3372855

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	409	102	90-111	

SAMPLE DUPLICATE: 3372856

Parameter	Units	92555948018 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	682	726	6	10	

SAMPLE DUPLICATE: 3372857

Parameter	Units	92557081004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	22.0	15.0	38	10	D6

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

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: 92557081003

METHOD BLANK: 3374773 Matrix: Water

Associated Lab Samples: 92557081003

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 GYPSUM POND DG
Pace Project No.: 92557081

QC Batch:	643665	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: 92557081001, 92557081002, 92557081003, 92557081004, 92557081005, 92557081006, 92557081007, 92557081008

METHOD BLANK: 3377162 Matrix: Water
Associated Lab Samples: 92557081001, 92557081002, 92557081003, 92557081004, 92557081005, 92557081006, 92557081007, 92557081008

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		3377165		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
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		3377167		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
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

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QUALIFIERS

Project: YATES GYPSUM POND DG

Pace Project No.: 92557081

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92557081001	GWC-5R				
92557081002	GWC-3R				
92557081005	GWC-6R				
92557081006	GWC-1R				
92557081007	GWC-4R				
92557081008	GWC-2R				
92557081001	GWC-5R	EPA 3010A	643161	EPA 6010D	643227
92557081002	GWC-3R	EPA 3010A	643161	EPA 6010D	643227
92557081003	G-EB-1	EPA 3010A	643161	EPA 6010D	643227
92557081004	G-FB-1	EPA 3010A	643161	EPA 6010D	643227
92557081005	GWC-6R	EPA 3010A	643161	EPA 6010D	643227
92557081006	GWC-1R	EPA 3010A	643161	EPA 6010D	643227
92557081007	GWC-4R	EPA 3010A	643161	EPA 6010D	643227
92557081008	GWC-2R	EPA 3010A	643161	EPA 6010D	643227
92557081001	GWC-5R	EPA 3005A	643162	EPA 6020B	643244
92557081002	GWC-3R	EPA 3005A	643162	EPA 6020B	643244
92557081003	G-EB-1	EPA 3005A	643162	EPA 6020B	643244
92557081004	G-FB-1	EPA 3005A	643162	EPA 6020B	643244
92557081005	GWC-6R	EPA 3005A	643162	EPA 6020B	643244
92557081006	GWC-1R	EPA 3005A	643162	EPA 6020B	643244
92557081007	GWC-4R	EPA 3005A	643162	EPA 6020B	643244
92557081008	GWC-2R	EPA 3005A	643162	EPA 6020B	643244
92557081001	GWC-5R	EPA 7470A	643872	EPA 7470A	643926
92557081002	GWC-3R	EPA 7470A	643872	EPA 7470A	643926
92557081003	G-EB-1	EPA 7470A	643872	EPA 7470A	643926
92557081004	G-FB-1	EPA 7470A	643872	EPA 7470A	643926
92557081005	GWC-6R	EPA 7470A	643872	EPA 7470A	643926
92557081006	GWC-1R	EPA 7470A	643872	EPA 7470A	643926
92557081007	GWC-4R	EPA 7470A	643872	EPA 7470A	643926
92557081008	GWC-2R	EPA 7470A	643872	EPA 7470A	643926
92557081001	GWC-5R	SM 2540C-2011	642674		
92557081002	GWC-3R	SM 2540C-2011	642674		
92557081003	G-EB-1	SM 2540C-2011	643142		
92557081004	G-FB-1	SM 2540C-2011	642674		
92557081005	GWC-6R	SM 2540C-2011	642674		
92557081006	GWC-1R	SM 2540C-2011	642674		
92557081007	GWC-4R	SM 2540C-2011	642674		
92557081008	GWC-2R	SM 2540C-2011	642674		
92557081001	GWC-5R	EPA 300.0 Rev 2.1 1993	643665		
92557081002	GWC-3R	EPA 300.0 Rev 2.1 1993	643665		
92557081003	G-EB-1	EPA 300.0 Rev 2.1 1993	643665		
92557081004	G-FB-1	EPA 300.0 Rev 2.1 1993	643665		
92557081005	GWC-6R	EPA 300.0 Rev 2.1 1993	643665		
92557081006	GWC-1R	EPA 300.0 Rev 2.1 1993	643665		
92557081007	GWC-4R	EPA 300.0 Rev 2.1 1993	643665		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES GYPSUM POND DG
Pace Project No.: 92557081

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92557081008	GWC-2R	EPA 300.0 Rev 2.1 1993	643665		

REPORT OF LABORATORY ANALYSIS

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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kenersville

Sample Condition Upon Receipt:

Client Name: 5th Power

Project #: **WO# : 92557081**



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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 8/23/11
CR

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: 2.0 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): 2.0

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

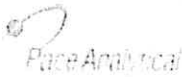
Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)

Document No:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
Page 2 of 2

Issuing Authority:
Pace Carolinas Quality Office

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

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

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

Project

WO# : 92557081

PM: NMG

Due Date: 09/03/21

CLIENT: GA-GA Power

Item#	BP3U-125 ml Plastic Unpreserved (N/A) (Cl-)	BP3U-250 ml Plastic Unpreserved (N/A)	BP3U-500 ml Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 ml Plastic H2SO4 (pH < 2) (Cl-)	BP3U-250 ml plastic HNO3 (pH < 2)	BP4Z-125 ml Plastic ZN Acetate & NaOH (pH)	BP3C-125 ml Plastic NaOH (pH > 12) (Cl-)	WGFDU-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 N-HCl (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)-4035 kit (H/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 (NI) H2SO4 (9.3-9.7)	AG0U-100 ml Amber Unpreserved vials (N/A)	V5GU-20 ml Scintillation vials (N/A)	DG9U-40 ml Amber Unpreserved vials (N/A)
1	/			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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12	/			/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Georgia Power, Atlanta GA, Report To Geoff Gay, Company Name Southern Co., Invoice Information: Kevin Herring/Niccole D'Olivo, State/Location GA

Section B Required Project Information:		Section C Invoice Information:	
Company Name	Georgia Power	Report To	Geoff Gay
Address	Atlanta GA	Company Name	Southern Co.
Request Due Date	10 Day	Address	
Phone	SCS Contacts	Page Quote	
Fax		Page Request Manager	Kevin Herring/Niccole D'Olivo
Project Name	Yates Gypsum Pond	Page Profile #	10840
Project Number	DK	Requested Analysis Filtered (Y/N)	
Purchase Order #		Regulatory Agency	CCR
Project Number		State/Location	GA

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-Grab C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	PRESERVATIVES								ANALYSES TEST								Residual Chlorine (Y/N)																													
					DATE	TIME	DATE	TIME		UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	TDS 2450C	Anions Suite 300-B	App III Metals	App IV Metals	Mercury 7470A	Radium 226/226 0315/0320	App I and II Metals 6020B	Cu, Ni, Ag, H, V, Z																														
																											WT G	WT G	WT G	WT G	WT G	WT G	WT G	WT G	WT G	WT G	WT G	WT G	WT G	WT G	WT G	WT G	WT G	WT G	WT G										
1	G-EB-1																																																						
2	G-EB-1																																																						
3	G-EB-1																																																						
4	G-EB-1																																																						
5	G-EB-1																																																						
6	G-EB-1																																																						
7	G-EB-1																																																						
8	G-EB-1																																																						
9	G-EB-1																																																						
10	G-EB-1																																																						
11	G-EB-1																																																						
12	G-EB-1																																																						

ADDITIONAL COMMENTS				RELINQUISHED BY / AFFILIATION				ACCEPTED BY / AFFILIATION				SAMPLE CONDITIONS			
DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)				

ANIONS SUITE 300-B (CI, F, SULFATE)
 APP III METALS, BOSTON 6020B, CA 6010B
 APP III METALS, BOSTON 6020B, CA 6010B
 APP IV METALS, BOSTON 6020B, CA 6010B
 MERCURY 7470A
 RADIIUM 226/226 0315/0320
 APP I AND II METALS 6020B
 CU, NI, AG, H, V, Z

RELINQUISHED BY: *[Signature]*
 DATE: *8/11/09*
 TIME: *17:30*

ACCEPTED BY: *[Signature]*
 DATE: *8/11/09*
 TIME: *17:30*

SAMPLER NAME AND SIGNATURE
 PRINT NAME OF SAMPLER: *Joe S. Johnson*
 SIGNATURE OF SAMPLER: *[Signature]*
 DATE SIGNED: *8/11/09*

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:

Section B
Required Project Information:

Section C
In-voice information:

Page: 2 of 2

Company	Georgia Power	Report To	Geoff Gray	Agency	Southern Co.	Regulatory Agency	CCR
Address	Atlanta, GA	Copy To		Company Name		State / Location	GA
Email to	SCS Contacts	Purchase Order #		Address			
Phone #		Project Name	Yates Gypsum Pond	Page Code			
Requested Date	10 Day	Project Number	DA	Page Project Manager	Kevin Herring/Nicole D'Olivo		
				Page Profile #	10840	Requested Analysis Filtered (Y/N)	

ITEM #	MATERIAL Description Lot # Material Product Subcode OI VOC AZ DPA Tissue	CODE CIV CMT CWT CWW CPL CST CSP COT COT	MATRIX CODE (type valid codes to left)	SAMPLE TYPE (G-GRAIL D-COMP)	COLLECTED			PRESERVATIVES				Analyses Test	Y/N	Residual Chlorine (Y/N)							
					DATE	TIME	DATE	TIME	DATE	TIME	H2SO4				HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	
1	G-BB-1		WT G		8/20/20	2:20															
2	G-FB-1		WT G		8/18/20	12:40															
3	QW-CBR		WT G		8/18/20	07:45															
4	QW-CBR		WT G																		
5	QW-CBR		WT G		8/18/20	12:25															
6	QW-CBR		WT G																		
7	QW-CBR		WT G		8/18/20	14:25															
8	QW-CBR		WT G		8/18/20	16:30															
9			WT G																		
10																					
11																					
12																					

ADDITIONAL COMMENTS		REQUINISHED BY / AFFILIATION		ACCEPTED BY / AFFILIATION		SAMPLE CONDITIONS	
		DATE	TIME	DATE	TIME		
	Ammons Suite 300 D (Cd, Pb, Selenium)	8/20	17:30	8/20/20	17:42	5.0	Y N Y
	App III Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Strontium (Sr)						

SAMPLER NAME AND SIGNATURE		DATE SIGNED	TEMP in C
PRINT Name of SAMPLER			
SIGNATURE OF SAMPLER			
DAVID S. SUBINSON		8/19/20	

September 21, 2021

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

RE: Project: YATES GYPSUM POND DG RADS
Pace Project No.: 92557052

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@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

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CERTIFICATIONS

Project: YATES GYPSUM POND DG RADS
Pace Project No.: 92557052

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 GYPSUM POND DG RADS
Pace Project No.: 92557052

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92557052001	GWC-5R	Water	08/18/21 12:48	08/20/21 17:30
92557052002	GWC-3R	Water	08/18/21 17:12	08/20/21 17:30
92557052003	G-EB-1	Water	08/20/21 12:20	08/20/21 17:30
92557052004	G-FB-1	Water	08/18/21 12:40	08/20/21 17:30
92557052005	GWC-6R	Water	08/18/21 09:45	08/20/21 17:30
92557052006	GWC-1R	Water	08/18/21 12:25	08/20/21 17:30
92557052007	GWC-4R	Water	08/18/21 14:25	08/20/21 17:30
92557052008	GWC-2R	Water	08/18/21 16:30	08/20/21 17:30

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SAMPLE ANALYTE COUNT

Project: YATES GYPSUM POND DG RADS
Pace Project No.: 92557052

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92557052001	GWC-5R	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557052002	GWC-3R	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557052003	G-EB-1	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557052004	G-FB-1	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557052005	GWC-6R	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557052006	GWC-1R	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557052007	GWC-4R	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
92557052008	GWC-2R	EPA 9315	CLA	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES GYPSUM POND DG RADJ

Pace Project No.: 92557052

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92557052001	GWC-5R					
EPA 9315	Radium-226	-0.00431 ± 0.139 (0.361) C:98% T:NA	pCi/L		09/20/21 08:42	
EPA 9320	Radium-228	0.437 ± 0.373 (0.750) C:74% T:85%	pCi/L		09/17/21 14:15	
Total Radium Calculation	Total Radium	0.437 ± 0.512 (1.11)	pCi/L		09/21/21 16:28	
92557052002	GWC-3R					
EPA 9315	Radium-226	0.0312 ± 0.114 (0.284) C:91% T:NA	pCi/L		09/20/21 08:42	
EPA 9320	Radium-228	0.513 ± 0.367 (0.709) C:74% T:86%	pCi/L		09/17/21 14:15	
Total Radium Calculation	Total Radium	0.544 ± 0.481 (0.993)	pCi/L		09/21/21 16:28	
92557052003	G-EB-1					
EPA 9315	Radium-226	0.00652 ± 0.118 (0.310) C:92% T:NA	pCi/L		09/20/21 08:42	
EPA 9320	Radium-228	0.463 ± 0.437 (0.900) C:73% T:86%	pCi/L		09/17/21 14:15	
Total Radium Calculation	Total Radium	0.470 ± 0.555 (1.21)	pCi/L		09/21/21 16:28	
92557052004	G-FB-1					
EPA 9315	Radium-226	0.0696 ± 0.112 (0.249) C:97% T:NA	pCi/L		09/20/21 08:43	
EPA 9320	Radium-228	0.438 ± 0.385 (0.782) C:73% T:90%	pCi/L		09/17/21 14:15	
Total Radium Calculation	Total Radium	0.508 ± 0.497 (1.03)	pCi/L		09/21/21 16:28	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES GYPSUM POND DG RADJ
Pace Project No.: 92557052

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92557052005		GWC-6R				
EPA 9315	Radium-226	0.0147 ± 0.104 (0.270) C:90% T:NA	pCi/L		09/20/21 08:43	
EPA 9320	Radium-228	0.337 ± 0.359 (0.748) C:71% T:90%	pCi/L		09/17/21 14:15	
Total Radium Calculation	Total Radium	0.352 ± 0.463 (1.02)	pCi/L		09/21/21 16:28	
92557052006		GWC-1R				
EPA 9315	Radium-226	0.499 ± 0.211 (0.261) C:91% T:NA	pCi/L		09/20/21 14:29	
EPA 9320	Radium-228	0.214 ± 0.319 (0.688) C:75% T:92%	pCi/L		09/17/21 14:15	
Total Radium Calculation	Total Radium	0.713 ± 0.530 (0.949)	pCi/L		09/21/21 16:28	
92557052007		GWC-4R				
EPA 9315	Radium-226	0.0754 ± 0.158 (0.367) C:86% T:NA	pCi/L		09/20/21 08:43	
EPA 9320	Radium-228	0.0339 ± 0.267 (0.621) C:74% T:86%	pCi/L		09/17/21 14:14	
Total Radium Calculation	Total Radium	0.109 ± 0.425 (0.988)	pCi/L		09/21/21 16:28	
92557052008		GWC-2R				
EPA 9315	Radium-226	0.423 ± 0.202 (0.275) C:90% T:NA	pCi/L		09/20/21 08:43	
EPA 9320	Radium-228	0.160 ± 0.288 (0.630) C:76% T:90%	pCi/L		09/17/21 14:10	
Total Radium Calculation	Total Radium	0.583 ± 0.490 (0.905)	pCi/L		09/21/21 16:28	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES GYPSUM POND DG RADS

Pace Project No.: 92557052

Sample: GWC-5R **Lab ID: 92557052001** Collected: 08/18/21 12:48 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	-0.00431 ± 0.139 (0.361) C:98% T:NA	pCi/L	09/20/21 08:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.437 ± 0.373 (0.750) C:74% T:85%	pCi/L	09/17/21 14:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.437 ± 0.512 (1.11)	pCi/L	09/21/21 16:28	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES GYPSUM POND DG RADS

Pace Project No.: 92557052

Sample: GWC-3R **Lab ID: 92557052002** Collected: 08/18/21 17:12 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	0.0312 ± 0.114 (0.284) C:91% T:NA	pCi/L	09/20/21 08:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.513 ± 0.367 (0.709) C:74% T:86%	pCi/L	09/17/21 14:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.544 ± 0.481 (0.993)	pCi/L	09/21/21 16:28	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES GYPSUM POND DG RADS

Pace Project No.: 92557052

Sample: G-EB-1 **Lab ID: 92557052003** Collected: 08/20/21 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	0.00652 ± 0.118 (0.310) C:92% T:NA	pCi/L	09/20/21 08:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.463 ± 0.437 (0.900) C:73% T:86%	pCi/L	09/17/21 14:15	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.470 ± 0.555 (1.21)	pCi/L	09/21/21 16:28	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES GYPSUM POND DG RADS

Pace Project No.: 92557052

Sample: G-FB-1 **Lab ID: 92557052004** Collected: 08/18/21 12:40 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	0.0696 ± 0.112 (0.249) C:97% T:NA	pCi/L	09/20/21 08:43	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.438 ± 0.385 (0.782) C:73% T:90%	pCi/L	09/17/21 14:15	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.508 ± 0.497 (1.03)	pCi/L	09/21/21 16:28	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES GYPSUM POND DG RADS

Pace Project No.: 92557052

Sample: GWC-6R **Lab ID: 92557052005** Collected: 08/18/21 09:45 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	0.0147 ± 0.104 (0.270) C:90% T:NA	pCi/L	09/20/21 08:43	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.337 ± 0.359 (0.748) C:71% T:90%	pCi/L	09/17/21 14:15	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.352 ± 0.463 (1.02)	pCi/L	09/21/21 16:28	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES GYPSUM POND DG RADS

Pace Project No.: 92557052

Sample: GWC-1R **Lab ID: 92557052006** Collected: 08/18/21 12:25 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	0.499 ± 0.211 (0.261) C:91% T:NA	pCi/L	09/20/21 14:29	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.214 ± 0.319 (0.688) C:75% T:92%	pCi/L	09/17/21 14:15	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.713 ± 0.530 (0.949)	pCi/L	09/21/21 16:28	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES GYPSUM POND DG RADS

Pace Project No.: 92557052

Sample: GWC-4R **Lab ID: 92557052007** Collected: 08/18/21 14:25 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	0.0754 ± 0.158 (0.367) C:86% T:NA	pCi/L	09/20/21 08:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.0339 ± 0.267 (0.621) C:74% T:86%	pCi/L	09/17/21 14:14	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.109 ± 0.425 (0.988)	pCi/L	09/21/21 16:28	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES GYPSUM POND DG RADS

Pace Project No.: 92557052

Sample: GWC-2R **Lab ID: 92557052008** Collected: 08/18/21 16:30 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	0.423 ± 0.202 (0.275) C:90% T:NA	pCi/L	09/20/21 08:43	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.160 ± 0.288 (0.630) C:76% T:90%	pCi/L	09/17/21 14:10	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.583 ± 0.490 (0.905)	pCi/L	09/21/21 16:28	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES GYPSUM POND DG RADS

Pace Project No.: 92557052

QC Batch: 463385

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92557052001, 92557052002, 92557052003, 92557052004, 92557052005, 92557052006, 92557052007, 92557052008

METHOD BLANK: 2237277

Matrix: Water

Associated Lab Samples: 92557052001, 92557052002, 92557052003, 92557052004, 92557052005, 92557052006, 92557052007, 92557052008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.335 ± 0.316 (0.643) C:71% T:87%	pCi/L	09/17/21 11:13	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES GYPSUM POND DG RADS

Pace Project No.: 92557052

QC Batch:	463386	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92557052001, 92557052002, 92557052003, 92557052004, 92557052005, 92557052006, 92557052007, 92557052008

METHOD BLANK: 2237280 Matrix: Water

Associated Lab Samples: 92557052001, 92557052002, 92557052003, 92557052004, 92557052005, 92557052006, 92557052007, 92557052008

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00416 ± 0.0925 (0.250) C:100% T:NA	pCi/L	09/20/21 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

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QUALIFIERS

Project: YATES GYPSUM POND DG RADJ

Pace Project No.: 92557052

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES GYPSUM POND DG RADS
Pace Project No.: 92557052

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92557052001	GWC-5R	EPA 9315	463386		
92557052002	GWC-3R	EPA 9315	463386		
92557052003	G-EB-1	EPA 9315	463386		
92557052004	G-FB-1	EPA 9315	463386		
92557052005	GWC-6R	EPA 9315	463386		
92557052006	GWC-1R	EPA 9315	463386		
92557052007	GWC-4R	EPA 9315	463386		
92557052008	GWC-2R	EPA 9315	463386		
92557052001	GWC-5R	EPA 9320	463385		
92557052002	GWC-3R	EPA 9320	463385		
92557052003	G-EB-1	EPA 9320	463385		
92557052004	G-FB-1	EPA 9320	463385		
92557052005	GWC-6R	EPA 9320	463385		
92557052006	GWC-1R	EPA 9320	463385		
92557052007	GWC-4R	EPA 9320	463385		
92557052008	GWC-2R	EPA 9320	463385		
92557052001	GWC-5R	Total Radium Calculation	464971		
92557052002	GWC-3R	Total Radium Calculation	464971		
92557052003	G-EB-1	Total Radium Calculation	464971		
92557052004	G-FB-1	Total Radium Calculation	464971		
92557052005	GWC-6R	Total Radium Calculation	464971		
92557052006	GWC-1R	Total Radium Calculation	464971		
92557052007	GWC-4R	Total Radium Calculation	464971		
92557052008	GWC-2R	Total Radium Calculation	464971		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

G-t Power

Project #:

WO# : 92557052



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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *8/23/11* *CR*

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen? Yes No N/A

Thermometer: IR Gun ID: *0-83* Type of Ice: Wet Blue None

Cooler Temp: *2.0* 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): *2.0*

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



Document Name:
Sample Condition Upon Receipt(SCUR)

Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
Page 2 of 2

Issuing Authority:
Pace Carolinas Quality Office

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

Project #

WO# : 92557052

PM: NMG

Due Date: 09/13/21

CLIENT: GA-GA Power

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

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3S-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 (NH4)2SO4 (9.3-9.7)	AG6U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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7	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
12	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

pH Adjustment Log for Preserved Samples

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Company: Georgia Power Address: Atlanta, GA Email To: SCS Contacts Phone: _____ Requested Due Date: 10 Day	Section B Required Project Information: Report To: Geoff Gay Copy To: _____ Purchase Order #: _____ Project Name: Yates Gypsum Pond Project Number: _____ Requested Date: 10 Day
Section C Invoice Information: Attention: Southern Co. Company Name: _____ Address: _____ State: GA City: _____ Zip: _____	
Regulatory Agency: CCR State/Location: GA	

ITEM #	MATRIX	CODE	MATRIX CODE (See valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyses Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	pH																	
					START	END			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other					TDS 2450C	Anions Suite 300.0	App III Metals	App IV Metals	Mercury 7470A	Radium 226/228 0315/0320	App I and II Metals 6020B Cu, Ni, Ag, Tl, V, Z										
																												DATE	TIME	DATE	TIME	WT	G	WT	G	WT	G
1	GFB-1	WT	G																																		
2	GFB-1	WT	G																																		
3	GMC-3R	WT	G																																		
4	GMC-3R	WT	G	08/18	154	08/18	12:48	5	X																												
5	GMC-3R	WT	G	08/18	143	08/18	11:12	5	X																												
6	GMC-3R	WT	G																																		
7	GMC-3R	WT	G																																		
8	GMC-3R	WT	G																																		
9																																					
10																																					
11																																					
12																																					

ADDITIONAL COMMENTS: App IV Metals 8020B, Arsenic (5b), Barium (5a), Beryllium (5d), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Thallium (Tl)	
Relinquished By / Affiliation: [Signature]	Date: 8/18/18
Accepted By / Affiliation: [Signature]	Date: 8/18/18

Sampler Name and Signature: [Signature]	Date Signed: 8/18/18
Print Name of Sampler: JOE SWANSON	Date Signed: 8/18/18
Signature of Sampler:	Date Signed: 8/18/18

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:

Company: Georgia Power
Address: Atlanta, GA
Email To: SCS Contacts
Phone: _____
Requested Date: 10 Day

Section B
Required Project Information

Report To: Geoff Guy
Copy To: _____
Purchase Order #: _____
Project Name: Yates Gypsum Pond
Project Number: _____

Section C
Invoice Information:

Acquirer: Southern Co.
Address: _____
Company Name: _____
Project Manager: Kevin Herring/Nicole D'Oliva
Page Profile #: 108-40

Page: 2 of 2

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9, /, -) Sample IDs must be unique</small>	MATRIX <small>Drying Tank Filter Press Filter Product Sediment Oil VOC Mn Pb TSS Turbidity</small>	CODE <small>WT WT WT WT WT WT WT WT WT WT WT</small>	DATE	TIME	DATE	TIME	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)									
																		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		PRESERVATIVES		Analyses Test		Residual Chlorine (Y/N)
																		START	END	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other
1	G-FB-1		WT G	8/20/20																						
2	G-FB-1		WT G	8/18/20																						
3	GWC-6R		WT G	8/18/20																						
4	GWC-1R		WT G	8/18/20																						
5	GWC-1R		WT G	8/18/20																						
6	GWC-1R		WT G	8/18/20																						
7	GWC-4R		WT G	8/18/20																						
8	GWC-2R		WT G	8/18/20																						
9																										
10																										
11																										
12																										

SAMPLER NAME AND SIGNATURE: _____
PRINT Name of SAMPLER: _____
SIGNATURE of SAMPLER: _____
DATE Signed: 8/20/21

Upgradient Well Data

August 2021

Georgia Power Co. – Plant Yates

Data Review Report

Metals, Radium, and General Chemistry Analyses

SDGs #92557070 and 92557089

Analyses Performed By:

Pace Analytical Services – Asheville, North Carolina

Pace Analytical Services – Peachtree Corners, Georgia

Pace Analytical Services – Greensburg, Pennsylvania

Report #43277R

Review Level: Tier II

Project: 30052922.00004

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92557070 and 92557089 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
UP-DUP-1	92557070001 92557089001	Water	8/20/2021	GWA-2	X	X	X
GWA-2	92557070002 92557089002	Water	8/20/2021		X	X	X
YGWA-14S	92557070003 92557089003	Water	8/19/2021		X	X	X
UP-DUP-2	92557070004 92557089004	Water	8/19/2021	YGWA-14S	X	X	X
YGWA-1D	92557070005 92557089005	Water	8/19/2021		X	X	X
YGWA-1I	92557070006 92557089006	Water	8/19/2021		X	X	X
YGWA-3D	92557070007 92557089007	Water	8/19/2021		X	X	X
YGWA-47	92557070008 92557089008	Water	8/19/2021		X	X	X
YGWA-30I	92557070009 92557089009	Water	8/19/2021		X	X	X
YGWA-39	92557719005 92557720005	Water	8/26/2021		X	X	X
UP-FB-2	92558240001 92558254001	Water	8/26/2021		X	X	X
YGWA-4I	92558240002 92558254002	Water	8/26/2021		X	X	X

Data Review Report

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YGWA-5I	92558240003 92558254003	Water	8/26/2021		X	X	X
UP-DUP-3	92558240004 92558254004	Water	8/26/2021	YGWA-5I	X	X	X
YGWA-5D	92558240005 92558254005	Water	8/26/2021		X	X	X
YGWA-17S	92558240006 92558254006	Water	8/27/2021		X	X	X
YGWA-18S	92558240007 92558254007	Water	8/26/2021		X	X	X
YGWA-18I	92558240008 92558254008	Water	8/27/2021		X	X	X
YGWA-20S	92558240009 92558254009	Water	8/27/2021		X	X	X
YGWA-21I	92558240014 92558254014	Water	9/1/2021		X	X	X
YGWA-40	92559523001 92559527001	Water	9/3/2021		X	X	X
YGWA-2I	92558238001 92558251001	Water	8/27/2021		X	X	X
YGWA-3I	92558238002 92558251002	Water	8/27/2021		X	X	X

Notes:

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

Analytical Data Package Documentation

The table below evaluates the data package completeness.

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

Note:

QA = quality assurance

Inorganic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010D, 6020B, 7470A, 9315, and 9320; Standard Method (SM) SM4500-H+ B, SM2540C, and SM2320B; 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 (January 2017).

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

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

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

Two facts should be noted by all data users. First, the “R” flag means that the associated value is unusable. In other words, due to significant quality control (QC) problems, the analysis is invalid and provides no information as to whether the compound is present or not. “R” values should not appear on data tables because they cannot be relied upon, even as a last resort. The second fact to keep in mind is that no compound concentration, even if

Data Review Report

it has passed all QC tests, is guaranteed to be accurate. Strict QC serves to increase confidence in data but any value potentially contains error.

Metals Analyses

1. Holding Times

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

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

Note:

s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

The MS/MSD analysis performed using sample YGWA-2I in association with SW-846 6010D analysis. The concentration of calcium in the unspiked sample was greater than four-times the amount of spike added; hence the recoveries were not evaluated, and no qualification of the results was required.

The MS/MSD analysis performed using sample YGWA-4I in association with SW-846 6010D analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample YGWA-5D in association with SW-846 6020B analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample UP-FB-2 in association with SW-846 6010D and SW-846 7470A analysis exhibited recoveries within the control limits.

3.2 Laboratory Duplicate Analysis

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

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

4. Field Duplicate Analysis

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

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
GWA-2 / UP-DUP-1	Calcium	26.5	26.0	1.9%
	Barium	0.036	0.033	8.7%
	Cobalt	0.074	0.065	12.9%
	Copper	0.0012 J	0.00087 J	AC
	Lithium	0.0028 J	0.0027 J	
	Nickel	0.014	0.013	
	Zinc	0.014	0.012	
YGWA-14S / UP-DUP-2	Calcium	1.2	1.3	AC
	Barium	0.0077	0.0080	
	Beryllium	0.00022 J	0.00020 J	
	Boron	0.018 J	0.017 J	

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YGWA-5I / UP-DUP-3	Calcium	2.5	2.5	AC
	Barium	0.019	0.018	
	Lithium	0.0032 J	0.0031 J	

Note:

AC = Acceptable

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

The differences in the results between the parent sample YGWA-14S and field duplicate sample UP-DUP-2 were acceptable.

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

5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

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

Data Validation Checklist for Metals

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

Notes:

%R Percent recovery

RPD Relative percent difference

General Chemistry Analyses

1. Holding Times

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

Method	Matrix	Holding Time	Preservation
pH by SM4500-H+ B	Water	ASAP	Cool to <6°C
Total Dissolved Solids (TDS) by SM2540C	Water	7 days from collection to analysis	Cool to <6°C
Alkalinity by SM2320B	Water	14 days from collection to analysis	Cool to <6°C
Chloride, Fluoride, and Sulfate by USEPA 300.0	Water	28 days from collection to analysis	Cool to <6°C

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

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

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

3.1 MS/MSD Analysis

All analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/MSD recovery control limits do not apply for MS/MSD performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS/MSD concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits and the laboratory flag will be removed.

The MS/MSD analysis performed using sample YGWA-40 in association with alkalinity analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample UP-DUP-2 in association with anions analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed on sample locations YGWA-2A and YGWA-2S in association with anions analysis exhibited recoveries outside of the acceptance limits as presented in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
YGWA-2A	Chloride	> 125%	> 125%
	Fluoride		
	Sulfate		
YGWA-20S	Chloride	> 125%	> 125%
	Fluoride		
	Sulfate		

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

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

3.2 Laboratory Duplicate Analysis

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

The laboratory duplicate analysis performed using samples YGWA-47, YGWA-5D, and YGWA-2I in association with TDS analysis exhibited an RPD within the control limit.

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

4. Field Duplicate Analysis

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

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
GWA-2 / UP-DUP-1	TDS	254	245	3.6%
	Chloride	5.2	5.2	0.0%
	Fluoride	0.060 J	0.079 J	AC
	Sulfate	121	120	0.8%
YGWA-14S / UP-DUP-2	TDS	54.0	55.0	1.8%
	Chloride	5.0	5.0	AC
	Sulfate	6.7	6.7	0.0%
YGWA-5I / UP-DUP-3	TDS	86.0	80.0	7.2%
	Chloride	4.3	4.3	AC
	Sulfate	2.4	2.5	

Note:

AC = Acceptable

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

The differences in the results between the parent sample YGWA-14S and field duplicate sample UP-DUP-2 were acceptable.

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

5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

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

Data Validation Checklist for General Chemistry

General Chemistry: SM4500-H+ B, SM2540C, SM2320B, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X	X		
Matrix Spike Duplicate (MSD) %R		X	X		
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)		X		X	

Notes:

%R Percent recovery

RPD Relative percent difference

Radiological Analyses

1. Holding Times

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

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

Note:

s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

Blank results should be verified to be accurately reported and that tolerance limits (± 2 sigma or standard deviation) were not exceeded; and blank results verified to be less than the 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:

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

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

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

Note:

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

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

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

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

3.1 MS Analysis

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

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

In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of ± 3 sigma for either.

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

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

Where:

x = measured concentration of the spiked sample.

x₀ = measured concentration of the unspiked sample.

c = spike concentration added.

u²(x), u²(x₀), u²(c) = the squares of the respective standard uncertainties of these values.

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

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

3.2 Laboratory Duplicate Analysis

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

The numerical performance indicator for laboratory duplicates is calculated by:

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

Where:

x_1, x_2 = two measured activity concentrations.

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

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

Laboratory duplicate analysis was performed using sample UP-DUP-1 in association with SW-846 9315 analysis. Since the activities were less than the MDC in the parent sample and laboratory duplicate sample, the evaluation of the laboratory duplicate samples is not applicable.

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 results are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
GWA-2 / UP-DUP-1	Radium-226	0.0454 \pm 0.104	0.325 \pm 0.195	AC
	Radium-228	0.483 \pm 0.364	0.333 \pm 0.342	
	Total Radium	0.528 \pm 0.468	0.658 \pm 0.537	
YGWA-14S / UP-DUP-2	Radium-226	0.00466 \pm 0.157	0.111 \pm 0.167	AC
	Radium-228	0.781 \pm 0.436	1.08 \pm 0.491	

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
	Total Radium	0.786 ± 0.593	1.19 ± 0.658	
YGWI-5I / UP-DUP-3	Radium-226	0.173 ± 0.181	0.101 ± 0.197	AC
	Radium-228	0.625 ± 0.402	0.620 ± 0.425	
	Total Radium	0.798 ± 0.583	0.721 ± 0.622	

Note:

AC = Acceptable

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

The differences in the results between the parent sample YGWA-14S and field duplicate sample UP-DUP-2 were acceptable.

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

5. Tracer or Carrier

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

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

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

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

The numerical performance indicator for a laboratory control sample is calculated

by:

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

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

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

$u^2(c)$ = combined standard uncertainty of the LCS value squared.

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

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

7. Isotope Identification

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

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

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

- GWA-2, YGWA-1I, YGWA-47, YGWA-30I, UP-FB-2, YGWA-5I, UP-DUP-3, YGWA-18S, YGWA-18I, and YGWA-2I – Radium-226, Radium-228, and total Radium
- YGWA-14S and YGWA-1D – Radium-226 and total Radium
- UP-DUP-1, YGWA-39, YGWA-4I, YGWA-17S, YGWA-20S, and YGWA-40 – Radium-228 and total Radium
- UP-DUP-2 – Radium-226
- YGWA-3I – Radium-228

8. System Performance and Overall Assessment

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

Data Validation Checklist for Radiologicals

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

Notes:

%R Percent recovery

RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE: 

DATE: November 23, 2021

PEER REVIEW: Dennis Capria

DATE: December 2, 2021

Chain of Custody / Data Qualifier Summary Table

CHAIN-OF-CUSTODY / Analytical Request Document

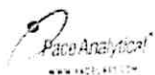
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Page: <u>1</u> of <u>45</u>	
Company: Georgia Power	Address: Atlanta, GA	Report To: SCS Contacts	Copy To: Arcadis Contacts	Attention: Southern Co.	Company Name:	Address:	Regulatory Agency:
Email To: SCS and Arcadis Contacts	Phone: / Fax:	Purchase Order #: UPGRADNEW	Project Name: Water System Pond Upgrade	Place Project Manager: Kevin Herring/Nicole D'Oleo	Place Profile #: 10840	Regulatory Agency: CCR	
Requested Due Date: 10 Day	Project Number:					State / Location: GA	

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique</small>	MATRIX CODE <small>Drinking Water DW Water WT Waste Water WW Product P Solid/Solid SL Oil OL Wipe WVR Air LR Other OT Tissue TS</small>	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (S=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)					
						START		END				Unpreserved	H2SO4	HNO3	HCl	HClO4	Na2S2O3	Methanol				Other	Analyses Test			
						DATE	TIME	DATE	TIME																	
1	UP-DUP-1	WT	G			8/20	1730				5													pH	5.36	
2	GWA-2	WT	G			8/20	1200				5														pH	5.36
3		WT	G																							
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																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
Amions Suite 300 C (Cl F Sulfate)	<i>JJ</i> Arcadis	8/20	1730	<i>ML</i> Arcadis	8/20/12	1745	5.0	Y	N	Y
App II Metals, Boron 60206, Ca 60100										
App IV Metals 60209: 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		TEMP in C	Received on Ice (Y/N)	Custody Sealed/Cooled (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER:	<i>Jake Swanson</i>				
SIGNATURE of SAMPLER:	<i>Jake Swanson</i>				
DATE Signed:	8/20/12				



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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:	Company Name:	Address:	Regulatory Agency:
Address: 2835 Pacas Ferry Rd	Copy To:	Company Name:	Address:	State / Location:	GA
City: Atlanta, GA 30339	Purchase Order #:	Pace Quote:	Pace Project Manager: nicole.doleg@pacelabs.com		
Phone:	Project Name: <u>Yatesville UG</u>	Pace Profile #: 10840			
Fax:	Project #:				
Requested Due Date:					

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-CRAB, C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	PRESERVATIVES								ANALYSIS TEST	REQUESTED ANALYSIS FILTERED (Y/N)	RESIDUAL CHARGE (Y/N)			
				START		END			# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other		
				DATE	TIME	DATE	TIME															
1	AP-2-EB-1	WT		8/20	1070	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-L-1	WT														X	X	X	X			
5	YGWA-11	WT														X	X	X	X			
6	YGWA-10	WT														X	X	X	X			
7	YGWA-29	WT														X	X	X	X			
8	YGWA-36	WT														X	X	X	X			
9	YGWA-30	WT														X	X	X	X			
10	YGWA-145	WT		8/19	732	1100		4	✓	✓						X	X	X	X			Ph: 7.32
11	UP-DUP-2	WT		8/19	-			4	✓	✓						X	X	X	X			
12	YGWA-32	WT														X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	<i>[Signature]</i>	8/20	1730	<i>[Signature]</i>	8/21	1730	5.0	Y	N	Y

SAMPLER NAME AND SIGNATURE				TEMP in C	Received on	Sealed	Cooler	Samples intact
PRINT Name of SAMPLER: <i>Jabe Swanson</i>					ice	(Y/N)	(Y/N)	(Y/N)
SIGNATURE of SAMPLER: <i>[Signature]</i>				DATE Signed: <i>8/20/2</i>				

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Section A	Section B	Section C	
Required Client Information:		Required Project Information:	
Company: Georgia Power	Report To: SCS Contacts	Invoice Information:	Page : Of
Address: Atlanta, GA	Copy To: Arcadis Contacts	Attention: Southern Co.	
Email To: SCS and Arcadis Contacts	Purchase Order #:	Company Name:	Regulatory Agency
Phone: Fax:	Project Name: Yates AMA-R6 (downgradient)	Address:	CCR
Requested Due Date: 10 Day	Project Number:	Pace Quote:	State / Location
		Pace Project Manager: Kevin Herring/Nicole D'Oleo	GA
		Pace Profile #: 10840	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique	MATRIX Drinking Water Water Waste Water Product Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyzes Test	Y/N	Requested Analysis Filtered (Y/N)															
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other	TDS, 2450C	Anions Suite 300.0	App III Metals	App IV Metals (No Tl)	Radium 226/228, 9315/9320	Alkalinity (2320B)	Cations (Na, K, Mg, Ca)	Mercury (7470A)	Residual Chlorine (Y/N)						
						DATE	TIME	DATE	TIME																											
1	YGWA 24				WT	G																														
2	YGWA 39				WT	G	8/26/21	12:35			2	3																							pH: pH 6.91	
3	YGWA 10				WT	G																														
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																														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
							Received on Ice (Y/N)	Samples intact (Y/N)
Anions Suite 300.0 (Cl, F, Sulfate)	<i>[Signature]</i> Arcadis	8/26/21	1410	<i>[Signature]</i>	8/26	1410		
App III Metals: Boron 6020B, Ca 6010D	<i>[Signature]</i>	8/27	1640	Charles Herring	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		TEMP n C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: Kate Popkewicz					
SIGNATURE of SAMPLER: <i>[Signature]</i>					
DATE Signed: 8-26-21					

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Georgia Power	Address: Atlanta, GA	Report To: SCS Contacts	Copy To: Arcadis Contacts	Attention: Southern Co.	Company Name:
Email To: SCS and Arcadis Contacts	Phone:	Purchase Order #:	Project Name: Yates AP-2 (upgradient)	Pace Quote:	Pace Project Manager: Kevin Herring/Nicole D'Oleo
Requested Due Date: 10 Day	Fax:	Project Number:		Pace Profile #: 10840	

Page: 1 Of 1

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample Ids must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Y/N	Requested Analysis Filtered (Y/N)					Residual Chlorine (Y/N)		
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2SO3	Methanol		Other	Analyses Test	TDS: 2450C	Anions Suite 300.0	App III Metals		App IV Metals (No Tl)	Radium 226/228: 9315/9320
						DATE	TIME	DATE	TIME																		
YGWA-2I					WT G	8/27/14	1133			X	X	X	X	X	X	X	X	X	X	X	X		PH: 7.14				
YGWA-3I					WT G	8/27/14	0955			X	X	X	X	X	X	X	X	X	X	X	X		PH: 7.59				

		DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)		8/27/14	1440	Arcadis	8/27	1440	
App III Metals: Boron 6020B, Ca 6010D		8/27/14	1640	Arcadis	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		TEMP in C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: Mark Chest					
SIGNATURE of SAMPLER:					



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Section A

Required Client Information:
 Company: Arcadis (GA Power)
 Address: 2839 Paces Ferry Rd
 Suite 900, Atlanta, GA 30339
 Email:
 Phone: 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: nicole.d'olea@pacelabs.com
 Pace Profile #: 10840

Page : 1 Of 1

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				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analytes Test	Requested Analysis Filtered (Y/N)					Residual Chlorine (Y/N)			
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol		Other	TDS	Cl, F, SO4	App III/IV Metals	RAD 93159320		Alkalinity		
				DATE	TIME	DATE	TIME																			
1	AMA-EB-1	WT																								
2	AMA-EB-2	WT																								
3	AMA-FB-1	WT																								
4	AMA-FB-2	WT																								
5	UP-EB-1	WT																								
6	UP-FB-1	WT	8/24	1710				5	X	X																
7	UP-EB-2	WT																								
8	UP-FB-2	WT																								
9	YGWA-4I	WT	8/26/24	1129				5	X	X																5.82
10	YGWA-5I	WT	8/26/24	1628				5	X	X																5.51 SU
11	UP-DUP-3	WT	8/26/24	-				5	X	X																-
12	YGWA-5D	WT	8/26/24	1355				5	X	X																7.16 SU

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<i>Mark Chest</i> / ACS	8/27/24	1640	<i>Chad Hule</i>	8/27/24	1640	

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: Mark Chest
 SIGNATURE of SAMPLER: *Mark Chest*
 DATE Signed: 8/27/24

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



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Page : 2 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:		Regulatory Agency	
Company: Arcadis (GA Power)		Report To: Becky Steever		Attention:		State / Location	
Address: 2839 Paces Ferry Rd		Copy To:		Company Name:		GA	
Suite 900, Atlanta, GA 30339		Purchase Order #:		Address:			
Email:		Project Name: Yates AMA		Pace Quote:			
Phone:		Project #:		Pace Project Manager: nicole.d'olier@pacelabs.com			
Requested Due Date:				Pace Profile #: 10840			

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	CODE	COLLECTED START DATE TIME END DATE TIME	SAMPLE TYPE (see valid codes to left) (G=GRAB C=COMP)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	
								Preservatives						Y/N	Analyses Test						
								Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2SO3		Methanol	Other	TDS	Cl, F, SO4	App III/IV Metals		RAD 9315/9320
13	YGWA-17S	WT		8/27 1045			5	✓	✓											Ph: 5.27	
14	YGWA-18S YGWA-18S	WT		8/26 1535			5	✓	✓											Ph: 4.40	
15	YGWA-18I	WT		8/27 0935			5	✓	✓											Ph: 5.40	
16	YGWA-20S	WT		8/27 1310			5	✓	✓											Ph: 5.37	
17	YGWA-21I	WT																			
18	YGWC-23S	WT																			
19	YGWC-24SA	WT																			
20	AMA-DUP 1	WT																			
21	YGWC-36A	WT																			
22	YGWC-49	WT																			
23	AMA-EB-1			8/26 1600			5														
24	AMA-EB-2			8/27 1340			5														

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<i>JS</i> / Arcadis	8/27		Charles Hake	8/27/24	1640	

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:						
SIGNATURE of SAMPLER:	DATE Signed: 8/27/24					

CHAIN-OF-CUSTODY / Analytical Request Document

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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 Stewart*
 Copy To: ~~SCS Contacts~~
 Purchase Order #:
 Project Name: Yates AMA ~~XXXXXX~~
 Project Number: ~~XXXXXX~~

Section C

Invoice Information:
 Attention: Southern Co.
 Company Name:
 Address:
 Pace Quote:
 Pace Project Manager: Kevin Herring/Nicole D'Oleo
 Pace Profile #: 10840

Page: of

Regulatory Agency: CCR
State / Location: GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, . -) Sample Ids must be unique	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)																	
						START DATE	START TIME	END DATE	END TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other		Analyses Test	TDS: 2450C	Amions Suite 300.0	App III Metals	App. IV Metals (No Ti)	Radium 226/228: 0315:0320	Alkalinity	Cations (Na, K, Mg, Ca)	pH:																					
																														DATE	TIME	DATE		TIME																
1	OP-FBT 07		WT	G																																														
2	OP-FBT 05		WT	G																																														
3	OP-FBT 05		WT	G																																														
4	OP-FBT 05		WT	G																																														
6	YGWA 09		WT	G																																														
6	YGWA 09		WT	G																																														
7	LIP-DUP 09		WT	G																																														
8	YGWA 09		WT	G																																														
9	YGWA 17S 09		WT	G																																														
10	YGWA 18S 09	AMA-DUP-1	WT	G		9/1					5	✓	✓																																					
11	YGWA 19 09	YGWA-LISA	WT	G		9/1	1025				5	✓	✓																																					
12	YGWA 20S 09	YGWA-2IE	WT	G		9/1	1440				5	✓	✓																																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, sulfate)	<i>[Signature]</i> /Arcadis	9/2/21	1530	<i>[Signature]</i> /Arcadis	9/2/21	1530	
App III Metals: Boron 6020B Ca 60160	<i>[Signature]</i>	9/2/21	1702	<i>[Signature]</i> / 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 (Y/N)
 Cooled (Y/N)
 Samples (Y/N)



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Section A

Required Client Information:
 Company: Arcadis (GA Power)
 Address: 2839 Paces Ferry Rd
 Suite 900, Atlanta, GA 30339
 Email:
 Phone: 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: nicole.dolec@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				# OF CONTAINERS	Preservatives								Y/N	Requested Analysis Filtered (Y/N)						Residual Chlorine (Y/N)		
				START		END			SAMPLE TEMP AT COLLECTION	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol		Other	Analyses Test	TDS	Cl F. SO4	App III/IV Metals	III/IV + Cations		RAD 9315/9320	Alkalinity
				DATE	TIME	DATE	TIME																			
1	YGWA-50	WT														X	X	X	X	X						
2	YGWA-40	WT		9/3/21	1020											X	X	X	X	X				475		
3	YGWA-38	WT														X	X	X	X	X						
4	YGWA-41	WT														X	X	X	X	X						
5	AWR-DUP-2	WT														X	X		X							
6	YGWA-42	WT														X	X	X	X	X						
7	YGWA-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	YGWA-52	WT																X								
12	YGWA-44	WT																X								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	<i>[Signature]</i> A&S	9/3/21	1730	<i>[Signature]</i> M/POU	9/3/21	1735	4.9	4	N	Y

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: *Maje Chest*
 SIGNATURE of SAMPLER: *[Signature]* DATE Signed: 9/3/21

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

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92557070	No qualifiers assigned						
92557089	YGWA-2I	EPA 300.0	Chloride	0.99	mg/L	J	MS %R > UCL, MSD %R >UCL
			Fluoride	0.12	mg/L	J	MS %R > UCL, MSD %R >UCL
			Sulfate	16.7	mg/L	J	MS %R > UCL, MSD %R >UCL
	YGWA-20S	EPA 300.0	Chloride	2.8	mg/L	J	MS %R > UCL, MSD %R >UCL

Abbreviations:

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

Qualifiers:

J = estimated result

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

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CERTIFICATIONS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Pace Analytical Services Charlotte

9800 Kinsey 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

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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

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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

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92557720005	YGWA-39	SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	4
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
92558251001	YGWA-2I	SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		SM 2540C-2011	ALW	1
92558251002	YGWA-3I	EPA 300.0 Rev 2.1 1993	CDC	3
		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

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92558254006	YGWA-17S	EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
92558254007	YGWA-18S	SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
92558254008	YGWA-18I	EPA 300.0 Rev 2.1 1993	CDC	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
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
		EPA 6010D	DRB	1
92558254014	YGWA-21I	EPA 6020B	CW1	12
		EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	15
92559527001	YGWA-40	EPA 7470A	VB	1
		SM 2540C-2011	ALW	1
		SM 2320B-2011	ECH	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	15

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

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES UPGRADIENT

Pace Project No.: 92557089

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
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

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SUMMARY OF DETECTION

Project: YATES UPGRADIENT

Pace Project No.: 92557089

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92557089005	YGWA-1D					
	Performed by	CUSTOME			08/23/21 17:46	
		R				
	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	CUSTOME			08/23/21 17:46	
		R				
	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	CUSTOME			08/23/21 17:46	
		R				
	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	CUSTOME			08/23/21 17:46	
		R				
	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

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SUMMARY OF DETECTION

Project: YATES UPGRADIENT

Pace Project No.: 92557089

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
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	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
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	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES UPGRADIENT

Pace Project No.: 92557089

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
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	CUSTOME			08/30/21 10:07	
		R				
	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	CUSTOME			08/30/21 10:07	
		R				
	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	CUSTOME			08/30/21 10:07	
		R				
	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	CUSTOME			08/30/21 10:07	
		R				
	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

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92558254014	YGWA-21I					
	Performed by	CUSTOME			09/03/21 11:11	
		R				
	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	CUSTOME			09/03/21 17:47	
		R				
	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	

REPORT OF LABORATORY ANALYSIS

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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

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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	

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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	

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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

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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	

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ANALYTICAL RESULTS

Project: YATES UPGRADIENT

Pace Project No.: 92557089

Sample: YGWA-11		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	

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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	

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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	

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ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-301		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	

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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	

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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

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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	

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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	

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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	

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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	

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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	

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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	

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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

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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	

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ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-181		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	

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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

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ANALYTICAL RESULTS

Project: YATES UPGRADIENT
Pace Project No.: 92557089

Sample: YGWA-211		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	

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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	

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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
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	

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch:	644090	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	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 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A 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	3381033		3381034		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	22.6	1	24.4	24.2	181	153	75-125	1	20	M1

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 645799 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A 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	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92557720001 Result	Spike Conc.	Spike Conc.	Result						
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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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 646610	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	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		3391821		3391822		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Calcium	mg/L	1.4	1	1	2.5	2.5	106	109	75-125	1	20

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT

Pace Project No.: 92557089

QC Batch: 647011	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	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	3393696		3393697		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92558254001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	ND	1	1	1.1	1.0	108	103	75-125	4	20

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch:	647336	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	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	

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 644091 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A 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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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	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92555948009 Result	Spike Conc.	Spike Conc.	MS Result								
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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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 645800 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A 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	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92557720004	Result	Spike Conc.	Spike Conc.							Result
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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QUALITY CONTROL DATA

Project: YATES UPGRADIENT

Pace Project No.: 92557089

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3387413 3387414												
Parameter	Units	92557720004		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	RPD	
Boron	mg/L	1.3	1	1	1	2.1	2.1	85	78	75-125	3	20
Cadmium	mg/L	ND	0.1	0.1	0.1	0.10	0.10	101	102	75-125	2	20
Chromium	mg/L	ND	0.1	0.1	0.1	0.10	0.10	102	100	75-125	2	20
Cobalt	mg/L	ND	0.1	0.1	0.1	0.10	0.098	101	98	75-125	3	20
Lead	mg/L	ND	0.1	0.1	0.1	0.099	0.099	99	99	75-125	0	20
Lithium	mg/L	0.0026J	0.1	0.1	0.1	0.10	0.097	100	94	75-125	6	20
Molybdenum	mg/L	ND	0.1	0.1	0.1	0.10	0.11	104	106	75-125	2	20
Selenium	mg/L	0.032	0.1	0.1	0.1	0.13	0.13	102	103	75-125	1	20

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 646612	Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A	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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QUALITY CONTROL DATA

Project: YATES UPGRADIENT

Pace Project No.: 92557089

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3391829 3391830												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92559417001 Result	Spike Conc.	Spike Conc.	MS Result							
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

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 647371 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A 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	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		254005	Spike Conc.	Spike Conc.	254005								
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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QUALITY CONTROL DATA

Project: YATES UPGRADIENT

Pace Project No.: 92557089

Parameter	Units	3395599		3395600		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
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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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 643872 Analysis Method: EPA 7470A
QC Batch 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	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		92557081001	Spike Conc.	Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Mercury	mg/L	ND	0.0025	0.0025	0.0020	0.0020	80	82	75-125	2	20		

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch: 646057	Analysis Method: EPA 7470A
QC Batch 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		3388624		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0025	98	88	75-125	12	20	

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch:	647249	Analysis Method:	EPA 7470A
QC Batch 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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QUALITY CONTROL DATA

Project: YATES UPGRADIENT

Pace Project No.: 92557089

QC Batch: 648334

Analysis Method: EPA 7470A

QC Batch 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	3400301		3400302		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Mercury	mg/L	ND	0.0025	0.0024	0.0023	92	91	75-125	2	20	

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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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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

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: 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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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	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: 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	Analysis Method: SM 2540C-2011
QC Batch Method: SM 2540C-2011	Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 92559527001	Laboratory: Pace Analytical Services - Peachtree Corners, GA

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 Analysis Method: SM 2320B-2011
QC Batch 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	3390350		3390351		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Alkalinity, Total as CaCO3	mg/L	92559892005 <5.0	MS Spike Conc. 50	MS Result 51.8	MSD Spike Conc. 50	104	100	80-120	3	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3390352 3390353

Parameter	Units	3390352		3390353		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Alkalinity, Total as CaCO3	mg/L	92559527001 13.8	MS Spike Conc. 50	MS Result 69.9	MSD Spike Conc. 50	112	112	80-120	0	25	

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QUALITY CONTROL DATA

Project: YATES UPGRADIENT
Pace Project No.: 92557089

QC Batch:	644028	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: 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		3379269		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
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		3379271		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
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	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: 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		3385179		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
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		3385181		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
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 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: 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		3385186		3385187		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Chloride	mg/L	2.8	2.8	50	50	68.7	69.4	132	133	90-110	1	10 M1
Fluoride	mg/L	ND	ND	2.5	2.5	3.3	3.3	130	130	90-110	0	10 M1
Sulfate	mg/L	ND	ND	50	50	69.3	69.9	138	140	90-110	1	10 M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3385188 3385189

Parameter	Units	92558560001		3385188		3385189		% Rec Limits	RPD	Max RPD	Qual	
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					MS % Rec
Chloride	mg/L	13.8	13.8	50	50	67.3	67.5	107	107	90-110	0	10
Fluoride	mg/L	0.29	0.29	2.5	2.5	3.0	3.0	110	109	90-110	1	10
Sulfate	mg/L	27.9	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 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: 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	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92559210006	Result	Spike Conc.	Spike Conc.								
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	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92559417003	Result	Spike Conc.	Spike Conc.								
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 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: 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	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92560111002 Result	Spike Conc.	Spike Conc.	Conc.								
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	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92559452001 Result	Spike Conc.	Spike Conc.	Conc.								
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	

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REPORT OF LABORATORY ANALYSIS

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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.

REPORT OF LABORATORY ANALYSIS

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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

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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		

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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		

REPORT OF LABORATORY ANALYSIS

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

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: Gf Power

Project #:

WO# : 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 CR

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: 2.0 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): 2.0

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	9.	EB-1 + FB-1 collection time relative listed on COC but containers are on AP2 work order
-Includes Date/Time/ID/Analysis Matrix: <u>W</u>			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: **Section B** Required Project Information: **Section C** Invoice Information

Company: Georgia Power Atlanta, GA	Report To: SCS Contacts Copy To: Arcadis Contacts	Address: Southern Co Company Name
Requested Due Date: 10 Day	Project Name: <u>USCARBIS</u>	State Project Manager: Kevin Hering/Nicole D'Onofrio
	Project Number: <u>10640</u>	State Location: GA

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB, C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other	Analyses Test	Requestor Analysis Filtered (Y/N)	Residual Chlorine (Y/N)								
			START	END														
			DATE	TIME							DATE	TIME						
1	UP-DUP-1	WT G	8/20	1														
2	GVA-2	WT G	8/20	200		5	V											
3		WT G																
4		WT G																
5		WT G																
6		WT G																
7		WT G																
8		WT G																
9		WT G																
10																		
11																		
12																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	<u>[Signature]</u> Inmate	8/20	1730	<u>[Signature]</u> Inmate	8/20	1745	5.0 Y N Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Steve Sisson

SIGNATURE OF SAMPLER: [Signature]

DATE Signed: 8/20/12

TEMP in C: _____

Received on Ice (Y/N): _____

Custody Sealed Cooler (Y/N): _____

Samples Intact (Y/N): _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Page Terms and Conditions found at <https://info.parchlabs.com/instru/pys-standard-terms.pdf>

Section B
Required Project Information:
Report To: Becky Steyer
Copy To: _____
Project Name: _____
Project #: _____

Section C
Invoice Information:
Attention: _____
Company Name: _____
Address: _____
Page Order #: _____
Page Project Manager: nicole.d@parchlabs.com
Pack Profile #: 10543

Client Information:
Client: Archdiocese of Atlanta
Address: 2835 Peach Ferry Rd
City: Atlanta, GA 30329
Phone: _____
Fax: _____
Requested Due Date: _____

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		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analyses Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	TEMP in C	SAMPLE CONDITIONS		
				START	END			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	TDS	Cl, F, SO4						App III/IV Metals	RAD 9315/9320	Received on Ice (Y/N)
1	WT	WT	WT	08/20	070	5	✓																		
2	WT	WT	WT	08/17	15:30	5	✓																		
3	WT	WT	WT	08/17	15:30	5	✓																		
4	WT	WT	WT																						
5	WT	WT	WT																						
6	WT	WT	WT																						
7	WT	WT	WT																						
8	WT	WT	WT																						
9	WT	WT	WT																						
10	WT	WT	WT																						
11	WT	WT	WT																						
12	WT	WT	WT																						

ADDITIONAL COMMENTS: _____

RELINQUISHED BY / AFFILIATION: _____ DATE: 8/20/12 TIME: 17:30

ACCEPTED BY / AFFILIATION: _____ DATE: 8/20/12 TIME: 17:30

TEMP in C: 5.0

Received on Ice (Y/N): Y

Custody Sealed Cooler (Y/N): N

Samples Intact (Y/N): Y

SAMPLER NAME AND SIGNATURE: _____

PRINT Name of SAMPLER: _____

SIGNATURE of SAMPLER: _____

DATE Signed: 8/20/12



CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: **2** of **4**

Section A
 Required Client Information:
 Company: Pacelabs (CA Power)
 Address: 2835 Paces Ferry Rd
 City: 980 Atlanta, GA 30339
 Phone: _____ Fax: _____
 Project # _____

Section B
 Required Project Information:
 Report To: Buck Stever
 Copy To: _____
 Purchase Order # _____
 Project Name: **YCW**
 Project # _____

Section C
 Invoice Information:
 Attention: _____
 Company Name: _____
 Address: _____
 Pace Queue: _____
 Pace Project Manager: nicole.d@pacelabs.com
 Pace Profile #: 10240

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 IAH)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analyse Test	Y/N	Requested Analysis Filled (Y/N)	Residual Chlorine (Y/N)			
				START	END	TIME	TIME										
1	YCW-A-1	WT	WT	8/19	17:30	8/19	17:30	5	✓		X	X	X	X	X		
2	YCW-A-2	WT	WT	8/19	15:30	8/19	15:30	5	✓		X	X	X	X	X		
3	YCW-A-3	WT	WT								X	X	X	X	X		
4	YCW-A-4	WT	WT								X	X	X	X	X		
5	YCW-A-5	WT	WT								X	X	X	X	X		
6	YCW-A-6	WT	WT								X	X	X	X	X		
7	YCW-A-7	WT	WT								X	X	X	X	X		
8	YCW-A-8	WT	WT								X	X	X	X	X		
9	YCW-A-9	WT	WT								X	X	X	X	X		
10	YCW-A-10	WT	WT	8/19	17:30	8/19	17:30	4	✓		X	X	X	X	X		
11	YCW-A-11	WT	WT	8/19	17:30	8/19	17:30	4	✓		X	X	X	X	X		
12	YCW-A-12	WT	WT	8/19	17:30	8/19	17:30	4	✓		X	X	X	X	X		

ADDITIONAL COMMENTS: JS YCWA-30I

RELINQUISHED BY / AFFILIATION: _____

DATE: 8/19/11 **TIME:** 17:30

ACCEPTED BY / AFFILIATION: _____

DATE: 8/19/11 **TIME:** 17:32

TEMP in C: 5.0

RECEIVED ON: _____

Signature and Stamp:
 PRINT NAME of SAMPLER: **JANE S. SUANSON**
 SIGNATURE of SAMPLER: _____
 DATE Signed: 8/19/11

TEMPERATURE: _____

RECEIVED ON: _____

Signature and Stamp:
 PRINT NAME of SAMPLER: _____
 SIGNATURE of SAMPLER: _____
 DATE Signed: _____

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:

Section B
Required Project Information:

Section C
Invoice Information:

Company	Georgia Power	Report To	SCS Contacts	Member	Southern Co
Address	Atlanta, GA	Corp To	Arcadis-Contacts	Address	
Email To	SCS and Arcadis Contacts	Purchase Order #		Page Quote	
Phone		Project Name		Page Project Manager	Kevin Herring/Nicole D'Orso
Requested Due Date	10 Day	Project Number	10840	Page Profile #	10840
				Requested Analysis Filtered (Y/N)	
				Residual Chlorine (Y/N)	
				Regulatory Agency	CCR
				State / Location	GA

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	Preservatives							Analyses Test	Y/N	Requester	Residual Chlorine (Y/N)	PH
					START DATE	END DATE				H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other					
1	ADP-113																				
2	ADP-113																				
3	ADP-113																				
4	ADP-113																				
5	YUDA-1D						8/19 1110													6.32	
6	YUDA-1E						8/19 1240													6.38	
7	YUDA-3D						8/19 1445													5.34	
8	ADP-113																				
9	ADP-113																				
10	ADP-113																				
11	ADP-113																				
12	ADP-113																				

ADDITIONAL COMMENTS

RELINQUISHED BY / AFFILIATION

DATE

TIME

ACCEPTED BY / AFFILIATION

DATE

TIME

TEMP in C

Received on Ice (Y/N)

Cooling Sealed Cooler (Y/N)

Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER

SIGNATURE of SAMPLER

DATE Signed

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		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company	Georgia Power	Report To	SCS Contacts	Location	Southern Co
Address	Atlanta, GA	Copy To	Arcadis Contacts	Address	
Email To	SCS Contacts	Purchase Order #		City/State	
Phone		Project Name	UPGRAD (upgraded)	Page Project Manager	Kevin Herring/Nicole D'Olivo
Requested Due Date	10 Day	Project Number		Page Profile #	10840
				Regulatory Agency	
				CCR	
				State / Location	
				GA	

ITEM #	SAMPLE ID (A-Z, 0-9 / -) Sample IDs must be unique	MATRIX	CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	Preservatives							Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	
				START	END		# OF CONTAINERS	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other
1	YGWA-47	Water	022	DATE	TIME	DATE	TIME	X	X							
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																

ADDITIONAL COMMENTS				RELINQUISHED BY / AFFILIATION				ACCEPTED BY / AFFILIATION				SAMPLE CONDITIONS							
				App III Metals: Brown 802028 CA 60103 (Arcadis) 4/20/13 1730 Nicole Miller				App II Metals: Brown 802028 CA 60103 (Arcadis) 4/20/13 1730 Nicole Miller				App IV Metals: Arcadis (S&P) Andong (AS) Brown (SA) Boronium (B&P) Cadmium (CA) Chromium (CR) Lead (Pb) Selenium (SE) Manganese (MN) Silver (SR) Thallium (TL)				TEMP = C Received on Ice (Y/N) Custody Sealed (Y/N) Coded (Y/N) Samples Intact (Y/N)			

SAMPLER NAME AND SIGNATURE	
PRINT NAME OF SAMPLER:	
SIGNATURE OF SAMPLER:	



Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
 Page 1 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

GA Power

Project #:

WO# : 92557720

PM: NMG

Due Date: 09/09/21

CLIENT: GA-GA Power

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *8/27/21*
COH

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Required Client Information:

Company: 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 AHA-R6 (downgradient)
 Project Number: _____

Section C

Invoice Information:

Member: Southern Co.
 Company Name: _____
 Address: _____
 Pace Order: _____
 Pace Project Manager: Kevin Hemming/Nicole D'Oliva
 Pace Profile #: 10840

Page: _____ of _____

Regulatory Agency: COR

State / Location: GA

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analyses Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	pH:
					START	END			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3					
1	YSMA 39	WT G			8/20/21	12:35		2											
2		WT G																	
3		WT G																	
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																	

ADDITIONAL COMMENTS: Antons Suite 300.0 (Cl, F, Sulfate)

REINQUISHED BY / AFFILIATION: Arcadis
 DATE: 8/20/21
 TIME: 14:10

ACCEPTED BY / AFFILIATION: [Signature]
 DATE: 8/26
 TIME: 14:10

SAMPLER NAME AND SIGNATURE: Kate Prokencoc
 PRINT Name of SAMPLER: Kate Prokencoc
 SIGNATURE OF SAMPLER: [Signature]
 DATE Signed: 8-26-21

TEMP in C: _____

Received on Ice (Y/N): _____

Custody Sealed Cooler (Y/N): _____

Samples Intact (Y/N): _____



Document Name:
Sample Condition Upon Receipt(SCUR)

Document 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



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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/initials Person Examining Contents: 8/27/21
COM

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

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

Yes No N/A

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)?

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

Yes No

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Section B

Section C

Required Client Information:

Required Project Information:

Invoice Information:

Company: Georgia Power		Report To: SCS Contacts		Attention: Southern Co.	
Address: Atlanta, GA		Copy To: Arcadis Contacts		Company Name	
Email To: SCS and Arcadis Contacts		Purchase Order #:		Address:	
Phone:		Project Name: Yates AP-2 (upgradient)		Pace Quote:	
Requested Due Date: 10 Day		Project Number:		Pace Project Manager: Kevin Herring/Nicole D'Ono	
				Pace Profile #: 10840	
				Regulatory Agency: CCR	
				State / Location: GA	

Page : 1 of

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample Ids must be unique	MATRIX Drinking Water Wastewater Process Water Product Sea/Soil Oil Wsp Air Other Tissue	CODE DW WT WW P SL OL WP AR QT TS	COLLECTED			SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives					Analyses Test	Residual Chlorine (Y/N)				
				DATE	TIME	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH			Na2S2O3	Methanol	Other	
YGWA-21				WT G	11/33									X	X	X	X	X	
YGWA-31				WT G	5/21/17	5:55									X	X	X	X	
							ACCEPTED BY / AFFILIATION												
Anions Suite 300.0 (Cl, F, Sulfate)				[Signature]			DATE	TIME	ACCEPTED BY / AFFILIATION			DATE	TIME	SAMPLE CONDITIONS					
App III Metals: Barium 60208, Ca 60100				[Signature]			8/27/14	1440	[Signature]			8/27/14	1640	[Signature]					
App IV Metals: Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)				[Signature]					[Signature]					[Signature]					

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chest

SIGNATURE OF SAMPLER: [Signature]

DATE Signed: [Date]

TEMP in C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)



Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
 Page 1 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

GA Power

Project #:

WO# : 92558254

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



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 8/27/21
COH

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:

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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	9. <u>AMA-EB-1 labeled UP-EB-1 but time match 8/26/21 1600</u>
-Includes Date/Time/ID/Analysis Matrix: <u>W</u>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Company: Arcadis (GA Power) Address: 2839 Paces Ferry Rd Suite 900, Atlanta, GA 30339
Section B Required Project Information: Report To: Emily Stever Project Name: Yates AMA
Section C Invoice Information: Attention: Company Name: Pace Quote Address: Pace Project Manager: nicole.dolewis@pacelabs.com
 Requested Due Date: _____
 State / Location: GA

ITEM #	MATRIX Drinking Water Water Waste Water Product Sewer/Solid CN Wipe Air Other Tissue	CODE DW WW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	DATE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Analytes Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)				
						START	END			Unpreserved		H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	TDS					Cl, F, SO4	App III/IV Metals	RAD 9315/9320	Alkalinity
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-EB-1	WT			8/24/17	10											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			8/24/17	11:59											X	X	X	X							
10	YGWA-5I	WT			8/24/17	14:28											X	X	X	X							
11	UP-DUP-3	WT			8/24/17	-											X	X	X	X							
12	YGWA-5D	WT			8/24/17	13:55											X	X	X	X							

REQUISITIONED 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)
Michelle Pass	8/27/17	1640	Camille Fuke	8/27/17	1640				
ADDITIONAL COMMENTS		7.1650							
ADDITIONAL COMMENTS		5.82							
ADDITIONAL COMMENTS		5.5150							

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: MARCHESI
 SIGNATURE OF SAMPLER: *[Signature]* DATE Signed: 8/27/17



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

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

PM: NMG Due Date: 09/13/21
CLIENT: GA-GA Power

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 9/21/21 kevl

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

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

Yes No N/A

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Company: Georgia Power Address: Atlanta, GA

Section B Required Project Information: Report To: SCS Contacts Copy To: SCS Contacts

Section C Invoice Information: Attention: Southern Co. Company Name: _____

Email To: SCS Contacts Fax: _____ Purchase Order #: _____
 Phone: _____ Project Name: VADA AMA Address: _____
 Requested Due Date: 10 Day Project Number: _____ Pace Quote: _____
 Pace Project Manager: Kevin Herring/Nicole D'Ono Pace Profile #: 10840 State / Location: GA

ITEM #	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	SAMPLE TEMP AT COLLECTION		# OF CONTAINERS	PRESERVATIVES								Analyses Test	Y/N	Requested Analysis Filtered (Y/N)		Residual Chlorine (Y/N)	PH
			START	END			UNPRESERVED	H2SO4		HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	TDS: 2450C	Anions Suite 300.0			App III Metals	App IV Metals (No Tl)		
1	UNPRES-13	WT G																					
2	UNPRES-13	WT G																					
3	UNPRES-13	WT G																					
4	UNPRES-13	WT G																					
5	UNPRES-13	WT G																					
6	UNPRES-13	WT G																					
7	UNPRES-13	WT G																					
8	UNPRES-13	WT G																					
9	UNPRES-13	WT G																					
10	UNPRES-13	WT G																					
11	UNPRES-13	WT G																					
12	UNPRES-13	WT G																					

ADDITIONAL COMMENTS
 Anions Suite 300.0 (Cl, F, sulfate)
 App III Metals: Barium 60209 Ca 60100
 App IV: Metals 60208, Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on Ice (Y/N)	Custody Sealed	Cooler (Y/N)	Samples
(Signature)	9/22/11	15:30	(Signature) / Arcadis	9/21/11	15:30					
(Signature)	9/21/11	17:02	(Signature) / Pace	9/21/11	17:02					
(Signature)			(Signature) / Arcadis	9/21/11	15:30					
(Signature)			(Signature)	9/21/11	17:02					



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 - GALOWE

Project: **WO# : 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
COJ

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: 4.9 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): 5.0

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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>9/3/21 COJ W</u>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY Field Data Required? Yes No

Lot ID of split containers: _____

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

www.pace.com

Section A Required Client Information: Company: Arcadis (GA Power) Address: 2839 Paces Ferry Rd Suite 900 Atlanta, GA 30339 Phone: Fax: Email: Requested Due Date:

Section B Required Project Information: Report To: Becky Steever Copy To: Project Name: Yates R6 Purchase Order #: Original #:

Section C Invoice Information: Attention: Company Name: Address: Pace Quote: Pace Project Manager: nicole.dolan@pace-labs.com Pace Profile #: 10840

Regulatory Agency: State/Location: GA

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyzes Test	Y/N	Requested Analytes Filtered (Y/N)	Residual Chlorine (Y/N)				
					START	END							Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other					TDS	Cl, F, SO4	App III/IV Metals	III/IV + Cations
1	ACIDIC	DW		WT																								
2	YGWA-40	WT		WT			9/12/10																					
3	WCWC-38	WT		WT																								
4	XCWC-41	WT		WT																								
5	ACWC-22	WT		WT																								
6	WCWC-22	WT		WT																								
7	YWC-48	WT		WT																								
8	AC-48	WT		WT																								
9	WC-48	WT		WT																								
10	YWC-48	WT		WT																								
11	YWC-52	WT		WT																								
12	YWC-52	WT		WT																								

REQUISITIONED BY/AFFILIATION	DATE	TIME	ACCEPTED BY/AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Michelle Pass	9/13/10	1730	Michelle Pass	9/13/10	1735	4.9 Y N Y

SAMPLER NAME AND SIGNATURE: Michelle Pass

PRINT Name of SAMPLER: Michelle Pass

SIGNATURE of SAMPLER: Michelle Pass

DATE Signed: 9/13/10

TEMP in C

Received on Ice (Y/N)

Cusody Sealed Cooler (Y/N)

Samples Intact (Y/N)

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@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

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

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

REPORT OF LABORATORY ANALYSIS

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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

REPORT OF LABORATORY ANALYSIS

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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

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: YATES UPGRADIENT RADS
Pace Project No.: 92557070

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92558240004	UP-DUP-3	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92558240005	YGWA-5D	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92558240006	YGWA-17S	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92558240007	YGWA-18S	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92558240008	YGWA-18I	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92558240009	YGWA-20S	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92558240014	YGWA-21I	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92559523001	YGWA-40	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92558238001	YGWA-2I	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
92558238002	YGWA-3I	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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
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	

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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)	pCi/L		09/21/21 08:07	
EPA 9320	Radium-228	C:95% T:NA -0.0548 ± 0.544 (1.29)	pCi/L		09/17/21 17:12	
Total Radium Calculation	Total Radium	C:67% T:77% 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)	pCi/L		09/21/21 09:36	
EPA 9320	Radium-228	C:90% T:NA -0.0610 ± 0.461 (1.09)	pCi/L		09/17/21 17:18	
Total Radium Calculation	Total Radium	C:74% T:82% 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)	pCi/L		09/22/21 08:47	
EPA 9320	Radium-228	C:98% T:NA 0.327 ± 0.417 (0.886)	pCi/L		09/20/21 14:36	
Total Radium Calculation	Total Radium	C:79% T:79% 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)	pCi/L		09/22/21 08:47	
EPA 9320	Radium-228	C:94% T:NA 0.419 ± 0.429 (0.888)	pCi/L		09/20/21 14:36	
Total Radium Calculation	Total Radium	C:82% T:80% 1.17 ± 0.742 (1.25)	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
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	

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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	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS

Pace Project No.: 92557070

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
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:						
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	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS

Pace Project No.: 92557070

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
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:						
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	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS

Pace Project No.: 92557070

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
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:						
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	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS

Pace Project No.: 92557070

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
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:						
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	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS

Pace Project No.: 92557070

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
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:						
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	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS

Pace Project No.: 92557070

Sample: YGWA-11 **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

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
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:						
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	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS

Pace Project No.: 92557070

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
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:						
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	

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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	

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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	

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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	

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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	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS

Pace Project No.: 92557070

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
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:						
	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

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
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:						
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	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS

Pace Project No.: 92557070

Sample: YGWA-181 **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	

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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	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS

Pace Project No.: 92557070

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YGWA-211 Lab ID: 92558240014 Collected: 09/01/21 14:40 Received: 09/02/21 17:02 Matrix: Water PWS: Site ID: Sample Type:						
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	

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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	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS

Pace Project No.: 92557070

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
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:						
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	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS

Pace Project No.: 92557070

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
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:						
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	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES UPGRADIENT RADS

Pace Project No.: 92557070

QC Batch:	463915	Analysis Method:	EPA 9315
QC Batch 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
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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

Analysis Method: EPA 9320

QC Batch 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

Analysis Method: EPA 9320

QC Batch 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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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.

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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		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES 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-11	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		

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name: Gf Power

Project #:

WO# : 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 CNR

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: 2.0 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): 2.0

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	9.	EB-1 + FB-1 collection time relative listed on COC but containers are on AP2 work order
-Includes Date/Time/ID/Analysis Matrix: <u>W</u>			
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A
 Required Client Information:
 Company: Georgia Power
 Address: Atlanta, GA

Section B
 Required Project Information:
 Report To: SCS Contacts
 Copy To: Arcadis Contacts

Section C
 Invoice Information:
 Address: Southern Co
 Company Name: Southern Co
 State: GA

Special To: SCS and Arcadis Contacts
 From: [Blank]
 Requested Due Date: 10 Day

Purchase Order #: [Blank]
 Project Name: [Blank]
 Project Number: [Blank]

Regulatory Agency: [Blank]
 CCR: [Blank]
 State Location: GA

ITEM #	DESCRIPTION	MATRIX	CODES	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB, C-COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES		ANALYSES TEST	Y/N	REQUESTED ANALYSIS FILTERED (Y/N)	RESIDUAL CHLORINE (Y/N)
						START DATE	END DATE		UNPRESERVED	H2SO4				
1	UP DUP 1	Drinking Water	WT		G	8/20	8/20							
2	GWA 3	Water	WT		G	8/20	8/20	51						
3		Water Vapor	WT		G									
4		Drinking Water	WT		G									
5		Drinking Water	WT		G									
6		Drinking Water	WT		G									
7		Drinking Water	WT		G									
8		Drinking Water	WT		G									
9		Drinking Water	WT		G									
10		Drinking Water	WT		G									
11		Drinking Water	WT		G									
12		Drinking Water	WT		G									

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
[Signature]	8/20	1745	[Signature]	8/20	1745	Y Y Y

ADDITIONAL COMMENTS
 Arsenic State 200.0 (OI F. sulfate)
 App III Metals: Barium 80008, Ca 80100
 App IV Metals 80208: Antimony (88), Arsenic (84), Barium (84), Bismuth (80), Cadmium (83), Chromium (82), Cobalt (80), Lead (85), Lithium (4), Manganese (86), Selenium (89), Thallium (81)

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: [Blank]
 SIGNATURE of SAMPLER: [Signature]
 DATE Signed: [Signature]

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



Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Page Terms and Conditions found at <https://info.pacelabs.com/terms-conditions>

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:

Company	Pacelabs (CA Power)
Address	2835 Paces Ferry Rd
City	Atlanta, GA 30339
State	GA
Country	USA
Phone	
Fax	
Requested Date/Time	

Section B
Required Project Information:

Report To	Beck, Stever
Copy To	
Purchase Order #	
Project Name	Y2012
Project #	05
Attention	
Company Name	
Address	
City	
State	
Country	
Phone Project Manager	nicole.d@pacelabs.com
Phone Profile #	10240
Requested Analysis Filled (Y/N)	
State / Location	GA

Page: 2 of 4

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / . -) Sample IDs must be unique	MATRIX CODE (see valid codes to L&N)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analyse Test				Residual Chlorine (Y/N)	
				START	END			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	TDS	Cl, F, SO4	App. Heavy Metals	RAD 9215/9320		
1	UP-DUP-2	WT		8/19	1220		5										X	X	X	X	
2	Y2012-301	WT		8/19	1530	5	5										X	X	X	X	
3	Y2012-301	WT					5										X	X	X	X	
4	Y2012-301	WT					5										X	X	X	X	
5	Y2012-301	WT					5										X	X	X	X	
6	Y2012-301	WT					5										X	X	X	X	
7	Y2012-301	WT					5										X	X	X	X	
8	Y2012-301	WT					5										X	X	X	X	
9	Y2012-301	WT					5										X	X	X	X	
10	Y2012-301	WT					5										X	X	X	X	
11	Y2012-301	WT					5										X	X	X	X	
12	Y2012-301	WT					5										X	X	X	X	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on Location (Y/N)	Custody (Y/N)	Sealed Cooler (Y/N)	Samples Intact (Y/N)
		8/19	1220		8/19	1732	5.0	Y	Y	Y	Y
		8/19	1530		8/19	1732	5.0	Y	Y	Y	Y
		8/19	1530		8/19	1732	5.0	Y	Y	Y	Y
		8/19	1530		8/19	1732	5.0	Y	Y	Y	Y
		8/19	1530		8/19	1732	5.0	Y	Y	Y	Y
		8/19	1530		8/19	1732	5.0	Y	Y	Y	Y
		8/19	1530		8/19	1732	5.0	Y	Y	Y	Y
		8/19	1530		8/19	1732	5.0	Y	Y	Y	Y
		8/19	1530		8/19	1732	5.0	Y	Y	Y	Y
		8/19	1530		8/19	1732	5.0	Y	Y	Y	Y
		8/19	1530		8/19	1732	5.0	Y	Y	Y	Y

SAMPLER NAME AND SIGNATURE		DATE SIGNED
PRINT NAME of SAMPLER: JAMES SWANSON		8/19/12
SIGNATURE of SAMPLER:		

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: **3** of **9**

Section A Required Client Information: **Section B** Required Project Information: **Section C** Invoice Information:

Company: Georgia Power		Report To: SCS Contacts		Member: Southern Co	
Address: Atlanta, GA		Corp To: Arcadis-Contacts		Address:	
Email To: SCS and Arcadis Contacts		Purchase Order #: <u>1185-ABD</u>		Page Quote:	
Phone:		Project Name: <u>SPBRADSON</u>		Page Project Manager: Kevin Herring/Nicole D'Orso	
Requested Due Date: 10 Day		Project Number:		Page Profile #: 10840	
				Requested Analysis Filtered (Y/N)	
				Residual Chlorine (Y/N)	
				Regulatory Agency: CCR	
				State/Location: GA	

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	PH			
					START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol						Other	TDS 2450C	Amperis Suite 300 0
1	ADVERTISED	WT G																					
2	ADVERTISED	WT G																					
3	ADVERTISED	WT G																					
4	ADVERTISED	WT G																					
5	YHDA-1D	WT G			8/19	1110																6.32	
6	YHDA-1E	WT G			8/19	1249																	6.38
7	YHDA-3D	WT G			8/19	1445																	5.34
8	ADVERTISED	WT G																					
9	ADVERTISED	WT G																					
10	ADVERTISED	WT G																					
11	ADVERTISED	WT G																					
12	ADVERTISED	WT G																					

ADDITIONAL COMMENTS: _____

RELINQUISHED BY / AFFILIATION: _____ DATE: _____ TIME: _____

ACCEPTED BY / AFFILIATION: _____ DATE: _____ TIME: _____

SAMPLER NAME AND SIGNATURE: _____

PRINT Name of SAMPLER: MARK CHESE

SIGNATURE of SAMPLER: _____ DATE Signed: 8/20/12

TEMP in C: _____

Received on Ice (Y/N): _____

Cooling Sealed Cooler (Y/N): _____

Samples Intact (Y/N): _____



Document Name:
Sample Condition Upon Receipt (SCUR)
 Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
 Page 1 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO# : 92557720

PM: NMG

Due Date: 09/09/21

CLIENT: GA-GA Power

Courier: Fed Ex UPS USPS Client
 Commercial Pace Other:

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 8/27/21
CMH

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Georgia Power, Atlanta, GA

Section B Required Project Information: Report To: SCS Contacts, Copy To: Arcadis Contacts

Section C Invoice Information: Attention: Southern Co., Company Name:

Company: Georgia Power
 Address: Atlanta, GA
 Email To: SCS and Arcadis Contacts
 Phone: _____
 Requested Due Date: 10 Day

Report To: SCS Contacts
 Copy To: Arcadis Contacts
 Project Name: Yates AHA-R6 (downgradient)
 Project Number: _____

Address: Southern Co.
 Company Name: _____
 Attention: _____
 Invoice Information: _____

Page Order: _____
 Pace Project Manager: Kevin Hemming/Nicole D'Oliva
 Pace Profile #: 10840

Regulatory Agency: COR
 State / Location: GA

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analyses Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	pH:
					START	END			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3					
1	YSMA 39	WT G	WT G	WT G	8/20/21	12:35		2											
2		WT G		WT G															
3		WT G		WT G															
4		WT G		WT G															
5		WT G		WT G															
6		WT G		WT G															
7		WT G		WT G															
8		WT G		WT G															
9		WT G		WT G															
10		WT G		WT G															
11		WT G		WT G															
12		WT G		WT G															

ADDITIONAL COMMENTS: Antons Suite 300.0 (Cl, F, Sulfate)

REINQUISHED BY / AFFILIATION: Arcadis
 DATE: 8/20/21
 TIME: 1410

ACCEPTED BY / AFFILIATION: *[Signature]*
 DATE: 8/26
 TIME: 1410

App III Metals: Boron (B), Calcium (Ca), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)

App IV Metals: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)

SAMPLER NAME AND SIGNATURE: Kate Prokencoc
 PRINT Name of SAMPLER: Kate Prokencoc
 SIGNATURE OF SAMPLER: *[Signature]*
 DATE Signed: 8-26-21

TEMP in C: _____

Received on Ice (Y/N): _____
 Custody Sealed Cooler (Y/N): _____
 Samples Intact (Y/N): _____



Document Name:
Sample Condition Upon Receipt(SCUR)

Document 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



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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/initials Person Examining Contents: *8/27/21*
COH

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

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

Yes No N/A

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)?

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

Yes No

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Required Client Information:

Company	Georgia Power	Report To	SCS Contacts
Address	Atlanta, GA	Copy To	Arcadis Contacts
Email To	SCS and Arcadis Contacts	Purchase Order #	
Phone		Project Name	Yates AP-2 (upgradient)
Requested Due Date	10 Day	Project Number	

Section B

Required Project Information:

Section C

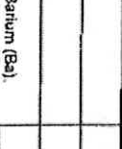

Invoice Information:

Company Name	Southern Co.
Address	
Attention	
Pace Quote	
Pace Project Manager	Kevin Herring/Nicole D'Ono
Pace Profile #	10840

Regulatory Agency	
CCR	
State / Location	GA

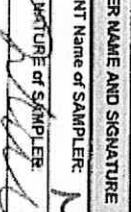
Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID			MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED			SAMPLE TEMP AT COLLECTION	PRESERVATIVES			ANALYSES TEST	Residual Chlorine (Y/N)	
	MATRIX	Code				START DATE	START TIME	END DATE		END TIME	Unpreserved	H2SO4			HNO3
YGWA-2I	DW	P		WT G	WT G	08/21	1133	21	X	X	X	X	X		SH 7.14
YGWA-3I	WV	SL		WT G	WT G	08/21	1755	21	X	X	X	X	X		SH 7.34

Ammons Suite 300.0 (Cl, F, Sulfide)	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
App III Metals: Barium 60208, Ca 60100	08/21	1440	 Arcadis	08/27	1640	Received on Ice (Y/N) _____ Custody Sealed Cooler (Y/N) _____ Samples Intact (Y/N) _____
App IV Metals: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)	08/27	1640	 Kevin Herring Pace Profile	08/27	1640	TEMP in C _____

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chest

SIGNATURE OF SAMPLER: 

DATE Signed: _____



Document Name:
Sample Condition Upon Receipt(SCUR)
 Document No.:
F-CAR-CS-033-Rev.07

Document Revised: October 28, 2020
 Page 1 of 2
 Issuing Authority:
 Pace Carolinas Quality Office

Laboratory receiving samples:

Asheville Eden Greenwood Huntersville Raleigh Mechanicsville Atlanta Kernersville

Sample Condition
Upon Receipt

Client Name:

GA Power

Project #:

WO# : 92558254

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



Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: *8/27/21*
COH

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

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

Yes No N/A

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Short Hold Time Analysis (<72 hr.)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.	
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.	
Sample Labels Match COC?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	9.	<i>AMA-EB-1 labeled UP-EB-1 but time match 8/26/21 1600</i>
-Includes Date/Time/ID/Analysis Matrix:	<i>W</i>		
Headspace in VOA Vials (>5-6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.	
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____

Date: _____

Project Manager SRF Review: _____

Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/dfs/pas-standard-terms.pdf>.

Required Client Information:
 Company: Arcadis (GA Power)
 Address: 2839 Peace Farm Rd
 Suite 900, Atlanta, GA 30339

Required Project Information:
 Report To: Brady Steever
 Copy To: []
 Project Name: Yates AMA
 Project Order #: []
 Project #:

Invoice Information:
 Attention: []
 Company Name: []
 Address: []
 Pace Quote: []
 Pace Project Manager: nicole.dolewis@pacelabs.com
 Pace Profile #: 10840

Requested Due Date: []
 Phone: []
 Fax: []

Regulatory Agency: []
State / Location: GA

ITEM #	MATRIX Drinking Water Waste Water Product Water Surface Other	CODE DW WW PW SL AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyse Test	Y/N	Residual Chlorine (Y/N)	
					START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other
1	AMA-EB-1	WT														X	X	X	
2	AMA-EB-2	WT														X	X	X	
3	AMA-FB-1	WT														X	X	X	
4	AMA-FB-2	WT														X	X	X	
5	UP-EB-1	WT														X	X	X	
6	UP-EB-1	WT														X	X	X	
7	UP-EB-2	WT														X	X	X	
8	UP-FB-2	WT														X	X	X	
9	YGWA-4I	WT														X	X	X	
10	YGWA-5I	WT														X	X	X	
11	UP-DUP-3	WT														X	X	X	
12	YGWA-5D	WT														X	X	X	

ADDITIONAL COMMENTS	REQUISITIONED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	[Signature]	8/27/12	1640	[Signature]	8/27/12	1640	7.1g SO
	[Signature]			[Signature]			5.82
	[Signature]			[Signature]			5.51 SO

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [Signature]
 SIGNATURE OF SAMPLER: [Signature]

DATE Signed: 8/27/12

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



CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/ubtr/pas-standard-terms.pdf>

Section A Required Client Information: Section B Required Project Information: Section C Invoice Information:

Company: Arcadis (GA Power) | Address: 2539 Paces Ferry Rd, Suite 500, Atlanta, GA 30339
 Report To: Becky Steever | Copy To: _____
 Project Name: Yates AMA | Purchase Order #: _____
 Project #: _____ | Pool Profile #: 10840
 Attention: _____ | Company Name: _____
 Address: _____ | Pool Quote: _____
 Pool Manager: nicole.d@arcadis.com | Pool Profile #: 10840
 Regulatory Agency: _____
 State / Location: GA

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analytes Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
					START	END			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			
13	YGWA-17S	WT	WT	WT	8/17	1045		5										
14	YGWA-18S	WT	WT	WT	8/16	1535		5										
15	YGWA-181	WT	WT	WT	8/17	0935		5										
16	YGWA-20S	WT	WT	WT	8/17	1310		5										
17	YGWA-211	WT	WT	WT														
18	YGWC-23S	WT	WT	WT														
19	YGWC-24SA	WT	WT	WT														
20	AMA-DUP 1	WT	WT	WT														
21	YGWC-36A	WT	WT	WT														
22	YGWC-49	WT	WT	WT														
23	AMA-EB-1				8/16	1600		5										
24	AMA-EB-2				8/17	1340		5										

ADDITIONAL COMMENTS: _____
 RELINQUISHED BY / AFFILIATION: JTB Arcadis | DATE: 8/17
 ACCEPTED BY / AFFILIATION: Nicole Kelle | DATE: 8/16/16

SAMPLER NAME AND SIGNATURE: _____
 PRINT Name of SAMPLER: Kate Swanson
 SIGNATURE of SAMPLER: _____
 DATE Signed: 8/17/12
 TEMP in C: _____
 Received on Ice (Y/N): _____
 Custody Sealed Cooler (Y/N): _____
 Samples Intact (Y/N): _____



Document Name: Sample Condition Upon Receipt(SCUR)	Document 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

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

PM: NMG Due Date: 09/13/21
CLIENT: GA-GA Power

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 9/21/21 kevl

Packing Material: Bubble Wrap Bubble Bags None Other

Biological Tissue Frozen?

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

Yes No N/A

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A		Section B	
Required Client Information:		Reported Project Information:	
Company: Georgia Power Address: Atlanta, GA		Report To: <i>See Contacts</i> Copy To: <i>See Contacts</i>	
Email To: SCS Contacts		Purchase Order #: _____	
Phone: _____ Fax: _____		Project Name: <i>Yates AMA</i>	
Requested Due Date: 10 Day		Project Number: _____	
Address: _____		Company Name: Southern Co.	
City/State: _____		Address: _____	
Zip: _____		City/State: _____	
State: _____		City: _____	
Country: _____		City: _____	
Country: _____		City: _____	
Country: _____		City: _____	
Country: _____		City: _____	
Country: _____		City: _____	
Country: _____		City: _____	
Country: _____		City: _____	
Country: _____		City: _____	

ITEM #	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Y/N	Requester Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	PH				
					START	END							Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol						Other			
1	UPPER-12	WT G																										
2	UPPER-25	WT G																										
3	UPPER-25	WT G																										
4	UPPER-25	WT G																										
5	UPPER-25	WT G																										
6	UPPER-25	WT G																										
7	UPPER-25	WT G																										
8	UPPER-25	WT G																										
9	UPPER-25	WT G																										
10	UPPER-25	WT G																										
11	UPPER-25	WT G																										
12	UPPER-25	WT G																										
ADDITIONAL COMMENTS																												
Anions Suite 300.0 (Cl, F, sulfate)												RELINQUISHED BY / AFFILIATION												DATE			TIME	
App III Metals: Boron 60209 Ca 60100												Acadise												9/22/15			15:30	
App IV Metals: Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)												Acadise												9/21/15			17:02	

SAMPLER NAME AND SIGNATURE		DATE SIGNED	
PRINT Name of SAMPLER: <i>Jack Swanson</i>		9/22/15	
SIGNATURE of SAMPLER: <i>[Signature]</i>			
TEMP in C		Received on Ice (Y/N)	
		Custody Sealed (Y/N)	
		Cooler (Y/N)	
		Samples (Y/N)	



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 - GALOWE

Project: **WO# : 92559527**

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

Custody Seal Present? Yes No Seals Intact? Yes No

Date/Initials Person Examining Contents: 9/3/21
COJ

Packing Material: Bubble Wrap Bubble Bags None Other
 Thermometer: IR Gun ID: 230 Type of Ice: Wet Blue None

Biological Tissue Frozen? Yes No N/A

Cooler Temp: 4.9 Correction Factor: Add/Subtract (°C) 10.1
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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Samples Arrived within Hold Time? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Short Hold Time Analysis (<72 hr.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	3.
Rush Turn Around Time Requested? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Sufficient Volume? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Correct Containers Used? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
-Pace Containers Used? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Dissolved analysis: Samples Field Filtered? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	8.
Sample Labels Match COC? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Includes Date/Time/ID/Analysis Matrix: <u>9/3/21 COJ W</u>	
Headspace in VOA Vials (>5-6mm)? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	10.
Trip Blank Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Trip Blank Custody Seals Present? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY Field Data Required? Yes No

Lot ID of split containers: _____

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____
 Project Manager SRF Review: _____ Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

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

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>

Section A
Required Client Information:

Company: Arcadis (GA Power)
Address: 2839 Paces Ferry Rd
Suite 900 Atlanta, GA 30339
Phone: _____
Fax: _____
Requested Date: _____

Section B
Required Project Information:

Report To: Becky Steaver
Copy To: _____
Purchase Order #: _____
Project Name: Yates R6
Original # _____

Section C
Invoice Information:

Attention: _____
Company Name: _____
Address: _____
Pace Quote #: _____
Pace Project Manager: nicole.dolce@pacelabs.com
Pace Profile #: 10840

Page: 1 of 1

Regulatory Agency: _____
State/Location: GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -,) Sample IDs must be unique	MATRIX Drinking Water Waste Water Process Surface Water Air Other Tissue	CODE DW WW P SL SW WP AR OT TS	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other	Analyzes Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	
				START DATE	END DATE								
				MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)								
1	XXXXXXXX												
2	YGWA-40				9/12/10 10:20							475	
3	YCWVC-38												
4	YCALC-41												
5	AMPCDTP-2												
6	YCALC-42												
7	YCWVC-48												
8	APL-48-1												
9	APL-48-2												
10	YSWA-45												
11	TSWVC-52												
12	TSWVC-54												
ADDITIONAL COMMENTS				RECEIVED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
				Michelle Pass	9/13/10	1730	mm/mal	9/13/10	1735	4.9	Y	N	Y

SAMPLER NAME AND SIGNATURE: _____
 PRINT Name of SAMPLER: MAFE CROST
 SIGNATURE of SAMPLER: *[Signature]* DATE Signed: 9/13/10

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

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: JC2
Date: 9/15/2021
Worklist: 62588
Matrix: WT

Method Blank Assessment	
MB Sample ID	2237303
MB concentration:	0.384
MB 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 NJ)?	Y
Count Date:	9/17/2021	LCSD62588	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):	4.667		4.757
Uncertainty (Calculated):	0.230		4.993
Result (pCi/L, g, F):	5.454		1.116
LCSD/LCSD 2 Sigma CSU (pCi/L, g, F):	1.22		0.41
Numerical Performance Indicator:	116.37%		104.96%
Percent Recovery:	N/A		N/A
Status vs Numerical Indicator:	Pass		Pass
Upper % Recovery Limits:	135%		135%
Lower % Recovery Limits:	60%		60%

Duplicate Sample Assessment		Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	LCSD62588	Sample I.D.:	Sample I.D.
Duplicate Sample I.D.:	LCSD62588	Sample MS I.D.:	Sample MS I.D.
Sample Result (pCi/L, g, F):	5.454	Sample MSD I.D.:	Sample MSD I.D.
Sample Duplicate Result (pCi/L, g, F):	1.212	Sample Matrix Spike Result:	Sample Matrix Spike Result
Sample Duplicate Result (pCi/L, g, F):	4.993	Sample Matrix Spike Duplicate Result:	Sample Matrix Spike Duplicate Result
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.116	Duplicate Numerical Performance Indicator:	Duplicate Numerical Performance Indicator
Are sample and/or duplicate results below RL?	NO	(Based on the Percent Recoveries) MS/MSD Duplicate RPD:	MS/MSD Duplicate Status vs Numerical Indicator:
Duplicate Numerical Performance Indicator:	0.549	MS/MSD Duplicate Status vs Numerical Indicator:	MS/MSD Duplicate Status vs RPD:
(Based on the LCSD/LCSD Percent Recoveries) Duplicate RPD:	10.31%	% RPD Limit:	% RPD Limit:
Duplicate Status vs RPD:	Pass		
Duplicate Status vs RPD:	36%		

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

Comments:

g. J. J. J.

Chlorine

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: CLA
Date: 9/13/2021
Worklist: 62589
Matrix: DW



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	LCS/D (Y or N)?	
	LCS62589	Y
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):	0.566	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%

Duplicate Sample Assessment	LCS/D (Y or N)?	
	LCS62589	Y
Sample I.D.:	92557070001	92557070001
Duplicate Sample I.D.:	92557070001DUP	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%

*** 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

LAN 9/12/21

Followed MDC

LAN 9/12/21

Appendix B

Field Sampling Reports

Client:		Georgia Power			
Project Location:		Gypsum Landfill			
Date:		8/16/2021			
Sampler:		Jake Swanson			
Equipment:		water probe			
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
GWC-3R	8/16/2021	12:15:00	26.66	38.35	--
GWC-5R	8/16/2021	12:27:00	27.35	42.77	--
GWA-2	8/16/2021	12:34:00	35.73	52.13	--
GWC-6R	8/16/2021	12:43:00	33.59	51.87	--
GWC-1R	8/16/2021	12:54:00	21.26	36.41	--
GWC-4R	8/16/2021	12:59:00	15.46	30.20	--
GWC-2R	8/16/2021	13:05:00	27.70	44.00	--

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: 8/20/21 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 - Nephelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = not used that day

-- calibration not conducted

Groundwater Sampling Form

Project Number	30052922	Well ID	GWA-2	Date	08/20/2021		
Project Location	Gypsum Landfill		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)	42.1	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	35.74	Total Depth (ft-bmp)	52.13	Water Column(ft)	16.39	Gallons in Well	2.66
MP Elevation	805.62	Pump Intake (ft-bmp)	47	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	12:00	Well Volumes Purged	0.58	Sample ID	GWA-2	Sampled by	Jake Swanson
Purge Start	10:54	Gallons Purged	1.53	Replicate/ Code No.	Dup-1 and G-EB-1	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)
10:54:01	00:00	100	35.74	6.00	457.65	11.04	7.89	21.9	113.52
10:59:01	05:00	100	35.96	5.99	438.01	4.75	6.35	22.3	122.75
11:04:01	10:00	100	36.16	5.99	427.30	6.24	4.55	22.4	132.24
11:09:01	15:00	100	36.21	5.98	424.13	7.65	4.16	22.7	143.10
11:14:01	20:00	100	36.21	5.98	421.49	3.79	3.64	22.8	151.83
11:19:01	25:00	100	36.21	5.96	418.08	8.07	3.38	23.0	159.28
11:24:01	30:00	100	36.21	5.94	416.63	9.96	3.08	23.3	164.77
11:29:01	35:00	100	36.21	5.92	415.66	9.63	2.82	23.3	168.77
11:34:01	40:00	100	36.21	5.90	415.73	5.60	2.50	23.3	171.89
11:39:01	45:00	100	36.21	5.90	413.73	12.10	2.33	23.4	173.87
11:44:01	50:00	100	36.21	5.88	413.54	11.91	2.18	23.6	174.95
11:47:01	53:00	100	36.21	5.87	411.89	15.44	2.09	23.5	175.52
11:52:01	58:00	100	36.21	5.86	411.76	18.15	1.99	23.6	175.28

Constituent Sampled	Container	Number	Preservative
Chloride	250 mL Plastic	3	None
TDS	500 mL Plastic	3	None
RAD Chem	1L Plastic	6	HNO3
Metals	250 mL Plastic	3	HNO3

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

Comments: Lamotte turbidity readings (in minutes)
Time=NTU
10:54=9.34
10:59=6.13
11:04=5.87
11:09=5.43
11:14=4.06
11:19=3.46
11:24=3.17
11:29=2.89
11:34=2.69
11:39=2.52
11:47=2.43
11:52=2.38

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
 μ S/cm = microSiemens per centimeters

mV = millivolts
 $^{\circ}$ F = degrees Fahrenheit
 $^{\circ}$ C = degrees Celsius

Groundwater Sampling Form



Project Number 30052922 **Well ID** GWC-1R **Date** 08/18/2021

Project Location Gypsum Landfill **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)** 26.11 **Casing Diameter (in)** 2 **Well Casing Material** PVC

Static Water Level (ft-bmp) 21.29 **Total Depth (ft-bmp)** 36.41 **Water Column(ft)** 15.12 **Gallons in Well** 2.46

MP Elevation 773.27 **Pump Intake (ft-bmp)** 31 **Purge Method** Low-Flow **Sample Method** Low-Flow

Sample Time 12:25 **Well Volumes Purged** 0.44 **Sample ID** GWC-1R **Sampled by** Jake Swanson

Purge Start 11:38 **Gallons Purged** 1.09 **Replicate/ Code No.** G-FB-1 **Color** Clear

Purge End 12:19

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:38:03	00:00	100	21.28	5.14	1415.34	3.91	7.05	22.3	192.15
11:43:03	05:00	100	22	5.09	1412.83	4.98	6.74	22.5	202.09
11:48:03	10:00	100	22.07	5.07	1415.91	2.76	6.79	22.0	208.38
11:49:12	11:09	100	22.07	5.06	1399.45	2.56	6.75	21.8	209.45
11:54:12	16:09	100	22.1	5.10	1410.54	2.46	6.78	22.7	211.92
11:59:12	21:09	100	22.11	5.12	1417.32	3.40	6.48	24.0	215.01
12:04:12	26:09	100	22.12	5.12	1426.15	2.74	6.38	24.6	217.81
12:09:12	31:09	100	22.13	5.09	1432.76	2.57	6.39	24.1	220.58
12:14:12	36:09	100	22.14	5.10	1448.29	1.63	6.45	23.3	223.58
12:19:12	41:09	100	22.14	5.08	1443.01	1.93	6.40	24.6	224.32

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

Comments: Lamotte turbidity readings (in minutes)
 Time=NTU
 11:43= 5.34
 11:49=2.77
 11:54= 2.34
 11:59=4.56
 12:04=6.22
 12:09=3.78
 12:14=3.23
 12:19=3.02

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

ft-bmp = feet below measuring point mS/cm = milliSiemens per centimeter mV = millivolts
 in = inches NTU = Nephelometric Turbidity Unit °F = degrees Fahrenheit
 ft = feet mg/L = milligrams per liter °C = degrees Celsius
 mL/min = milliliters per minute µS/cm = microSiemens per centimeters

Groundwater Sampling Form



Project Number	30052922	Well ID	GWC-2R	Date	08/18/2021		
Project Location	Gypsum Landfill		Weather(°F)	86.5 degrees F and Partly Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	33.7	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	27.74	Total Depth (ft-bmp)	44	Water Column(ft)	16.26	Gallons in Well	2.64
MP Elevation	769.76	Pump Intake (ft-bmp)	39	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	16:30	Well Volumes Purged	0.20	Sample ID	GWC-2R	Sampled by	Jake Swanson
Purge Start	15:59	Gallons Purged	0.53	Replicate/ Code No.		Color	Clear
Purge End	16:20						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:59:25	00:00	100	27.74	5.26	664.66	6.35	6.03	24.9	209.00
16:04:25	05:00	100	27.89	5.09	666.22	2.28	5.12	23.4	218.44
16:09:25	10:00	100	27.93	5.00	673.65	1.88	4.96	22.7	226.89
16:14:25	15:00	100	27.96	4.95	680.77	2.63	4.90	22.5	229.72
16:19:25	20:00	100	27.96	4.96	681.16	2.23	4.88	22.3	229.52

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

Comments: Lamotte turbidity readings (in minutes)
 Time=NTU
 16:04= 2.87
 16:09=2.70
 16:14= 2.90
 16:19=2.88

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	30053438	Well ID	GWC-3R	Date	08/18/2021		
Project Location	Gypsum Landfill	Weather(°F)	Sunny				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	28.05	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	26.71	Total Depth (ft-bmp)	38.35	Water Column(ft)	11.64	Gallons in Well	1.89
MP Elevation	775.25	Pump Intake (ft-bmp)	33	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	16:35	Well Volumes Purged	1.19	Sample ID	GWC-3R	Sampled by	Ash Willis
Purge Start	15:03	Gallons Purged	2.25	Replicate/ Code No.		Color	Clear
Purge End	16:28						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:03:37	00:00	100	26.8	4.57	473.68	120.70	6.08	36.5	87.65
15:08:37	05:00	100	26.8	4.58	477.59	133.14	5.65	39.3	96.23
15:13:37	10:00	100	26.8	4.66	479.89	188.23	5.55	41.2	103.18
15:18:37	15:00	100	26.78	4.53	487.52	199.89	5.57	42.6	105.85
15:23:37	20:00	100	26.78	4.49	483.54	225.84	5.46	43.5	110.51
15:28:37	25:00	100	26.78	4.52	483.30	288.37	5.34	44.4	111.88
15:33:37	30:00	100	26.78	4.52	479.07	297.99	5.36	45.2	114.55
15:38:37	35:00	100	26.78	4.51	475.19	271.32	5.42	44.9	118.48
15:43:37	40:00	100	26.81	4.54	463.96	335.74	5.35	44.9	124.16
15:48:37	45:00	100	26.83	4.57	451.02	363.47	5.53	41.3	113.47
15:53:37	50:00	100	26.89	4.65	436.35	393.55	5.68	37.8	109.34
15:58:37	55:00	100	26.94	4.70	424.95	454.81	6.02	35.1	110.11
16:03:37	00:00	100	26.94	4.69	396.19	465.25	6.42	32.1	111.11
16:08:37	05:00	100	26.94	4.70	382.09	486.93	6.24	32.8	112.29
16:13:37	10:00	100	26.94	4.71	359.11	527.40	5.90	34.4	113.63
16:18:37	15:00	100	26.94	4.72	345.30	579.87	6.33	35.0	113.25
16:23:37	20:00	100	26.94	4.73	338.03	633.41	6.04	35.2	113.42
16:28:37	25:00	100	26.94	4.73	319.33	684.05	6.11	35.2	113.16

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

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



Comments: LaMotte turbidity meter readings (Time: NTU) 1505: 12.98; 1510: 11.18; 1515: 10.92; 1520: 8.41; 1525: 8.63; 1530: 7.04; 1535: 7.91; 1540: 6.51; 1545: 6.38; 1550: 6.29; 1555: 5.77; 1600: 5.19; 1605: 3.85; 1610: 3.22; 1615: 2.57; 1620: 2.58; 1625: 2.69; 1630: 2.38

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
 μ S/cm = microSiemens per centimeters

mV = millivolts
 $^{\circ}$ F = degrees Fahrenheit
 $^{\circ}$ C = degrees Celsius

Groundwater Sampling Form

Project Number 30052922 **Well ID** GWC-4R **Date** 08/18/2021

Project Location Gypsum Landfill **Weather(°F)** 86.5 degrees F and Partly Cloudy. The wind is blowing undefined at 0.0 mph.

Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	19.9	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	15.21	Total Depth (ft-bmp)	30.2	Water Column(ft)	14.99	Gallons in Well	2.44
MP Elevation	757.48	Pump Intake (ft-bmp)	25	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:25	Well Volumes Purged	0.38	Sample ID	GWC-4R	Sampled by	Jake Swanson
Purge Start	13:29	Gallons Purged	0.92	Replicate/ Code No.		Color	Clear
Purge End	14:04						

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)
13:29:59	00:00	100	15.21	5.48	1327.71	4.54	2.01	25.7	206.39
13:34:59	05:00	100	15.28	5.48	1349.46	2.80	1.37	28.0	195.31
13:39:59	10:00	100	15.39	5.47	1331.04	4.52	2.20	26.7	190.21
13:44:59	15:00	100	15.61	5.51	1336.00	8.35	1.33	26.3	189.22
13:49:59	20:00	100	15.56	5.48	1287.58	13.35	1.37	27.1	192.02
13:54:59	25:00	100	15.52	5.46	1267.31	22.35	1.53	27.5	194.48
13:59:59	30:00	100	15.54	5.46	1237.31	34.15	1.57	27.8	195.49
14:04:59	35:00	100	15.54	5.46	1209.64	51.64	1.48	28.2	196.76

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

Comments: Lamotte turbidity readings
 Time=NTU
 13:34= 4.36
 13:39=4.12
 13:44= 3.77
 13:49=3.17
 13:54=3.12
 13:59=3.10
 14:04=3.02

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



Project Number 30053437	Well ID GWC-5R	Date 08/18/2021
Project Location Gypsum Landfill	Weather(°F) 86.5 degrees F and Partly Cloudy. The wind is blowing undefined at 0.0 mph.	
Measuring Pt. Description Top of Inner Casing	Screen Setting (ft-bmp) 32.47	Casing Diameter (in) 2
Static Water Level (ft-bmp) 27.4	Total Depth (ft-bmp) 42.77	Water Column(ft) 15.37
MP Elevation 782.45	Pump Intake (ft-bmp) 37	Purge Method Low-Flow
Sample Time 11:54	Well Volumes Purged 0.70	Sample ID GWC-5R
Purge Start 10:24	Gallons Purged 1.75	Replicate/ Code No.
Purge End 11:53		Color Clear

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:24:48	00:00	100	27.36	5.93	1793.50	45.49	8.84	24.9	130.46
10:29:48	05:00	100	28	5.01	1953.70	28.57	8.50	24.1	135.43
10:34:48	10:00	75	27.97	5.34	1965.41	25.79	8.25	23.9	141.15
10:39:48	15:00	75	27.97	5.73	1941.21	22.69	8.18	23.3	144.20
10:44:48	20:00	75	27.96	5.53	1916.98	30.74	8.10	23.0	142.53
10:49:48	25:00	75	27.97	6.08	1962.11	36.22	7.92	24.5	144.73
10:54:48	30:00	75	27.97	5.53	1930.70	57.20	8.01	24.9	142.30
10:59:48	35:00	75	27.97	5.79	1930.60	64.02	7.93	25.1	142.38
11:04:48	40:00	75	27.97	4.98	1910.18	13.06	8.63	24.5	125.04
11:09:48	45:00	75	27.97	4.75	1913.53	8.65	8.70	23.9	127.98
11:14:48	50:00	75	27.98	4.72	1915.71	6.65	8.65	23.7	131.76
11:19:48	55:00	75	27.97	4.72	1905.97	5.13	8.56	23.6	133.91
11:24:48	00:00	75	27.97	4.72	1894.59	6.33	8.60	23.3	136.43
11:29:48	05:00	75	27.97	4.73	1887.20	7.65	8.47	24.0	136.58
11:34:48	10:00	75	27.97	4.73	1881.56	10.14	8.40	24.0	138.41
11:39:48	15:00	75	27.97	4.75	1883.54	14.61	8.42	23.5	138.21
11:44:48	20:00	75	27.97	4.76	1890.15	24.21	8.15	23.5	139.60
11:49:48	25:00	75	27.97	4.76	1898.43	31.72	8.24	23.3	140.09

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

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

Comments: Fulcrum crashed during save. Confirmation turbidity readings were between 3.6 and 4.7

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
 μ S/cm = microSiemens per centimeters

mV = millivolts
 $^{\circ}$ F = degrees Fahrenheit
 $^{\circ}$ C = degrees Celsius

Groundwater Sampling Form

Project Number	30052922	Well ID	GWC-6R	Date	08/18/2021		
Project Location	Gypsum Landfill	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)	41.6	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	33.78	Total Depth (ft-bmp)	51.87	Water Column(ft)	18.09	Gallons in Well	2.94
MP Elevation	788.98	Pump Intake (ft-bmp)	46	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	09:45	Well Volumes Purged	0.32	Sample ID	GWC-6R	Sampled by	Jake Swanson
Purge Start	09:00	Gallons Purged	0.94	Replicate/ Code No.		Color	Clear
Purge End	09:36						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:00:29	00:00	100	33.78	6.40	1152.88	1.30	7.92	21.9	99.09
09:05:29	05:00	100	34	6.02	1019.02	1.26	6.59	21.5	123.60
09:10:29	10:00	100	34	5.90	952.00	1.23	5.59	21.3	136.32
09:11:07	10:38	100	34	5.89	951.00	1.31	5.53	21.4	137.66
09:16:07	15:38	100	34	5.84	927.33	1.44	5.09	21.6	144.07
09:21:07	20:38	100	34	5.85	915.68	1.62	4.97	21.8	149.66
09:26:07	25:38	100	34	5.84	901.27	1.57	4.78	21.9	154.37
09:31:07	30:38	100	34	5.83	891.00	1.56	4.63	21.6	159.50
09:36:07	35:38	100	34	5.82	886.90	1.93	4.54	21.3	164.69

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

Comments: Lamotte turbidity readings (in minutes)
 Time=NTU
 9:05= 2.25
 9:11=2.41
 9:16= 2.33
 9:21=1.89
 9:26=2.01
 9:31=2.23
 9:36=2.89

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

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

Project Location: Gypsum Landfill			Yes	No	N/A
Permit Number:					
Well ID: GWC-5R					
Person Gauging: Jake Swanson					
Date: 8/16/2021					
Time: 12:27:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
Trim grass around well pad.					
Well l'd reads GWC-r5					
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: Gypsum Landfill			Yes	No	N/A
Permit Number:					
Well ID: GWC-2R					
Person Gauging: Jake Swanson					
Date: 8/16/2021					
Time: 13:05:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
	Trim grass around well pad				
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: Gypsum Landfill			Yes	No	N/A
Permit Number:					
Well ID: GWC-4R					
Person Gauging: Jake Swanson					
Date: 8/16/2021					
Time: 12:59:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
	Trim grass around well pad				
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: Gypsum Landfill			Yes	No	N/A
Permit Number:					
Well ID: GWC-1R					
Person Gauging: Jake Swanson					
Date: 8/16/2021					
Time: 12:54:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
	Trim grass around well pad				
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: Gypsum Landfill			Yes	No	N/A
Permit Number:					
Well ID: GWC-6R					
Person Gauging: Jake Swanson					
Date: 8/16/2021					
Time: 12:43:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
	Trim grass around well pad				
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: Gypsum Landfill			Yes	No	N/A
Permit Number:					
Well ID: GWA-2					
Person Gauging: Jake Swanson					
Date: 8/16/2021					
Time: 12:34:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
	Trim grass around well pad				
8 Date by when corrective actions are needed:					

Groundwater Gauging Well Inspection Report

Project Location: Gypsum Landfill			Yes	No	N/A
Permit Number:					
Well ID: GWC-3R					
Person Gauging: Jake Swanson					
Date: 8/16/2021					
Time: 12:15:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
Trim grass around well pad.					
Well l'd reads GWC-R3					
Well needs tow slip cap.					
8 Date by when corrective actions are needed:					

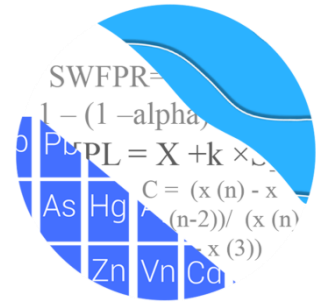
Appendix C

Statistical Analysis Results

Appendix III Statistically Significant Increase Summary (August 2021)

Appendix III Parameter	Monitoring Wells
Boron	GWC-4R
Calcium	GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R
Chloride	GWC-2R, GWC-4R
Sulfate	GWC-1R, GWC-2R, GWC-5R, TWC-6R
Total Dissolved Solids	GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R

GROUNDWATER STATS CONSULTING



February 28, 2022

Southern Company Services
Attn: Ms. Lauren Coker
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Yates Ash Pond 1 (AP-1)
August/September 2021 Sample Event

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-1. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10, and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling for the Appendix III parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of Appendix IV constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:**
 - **AP-1:** YGWA-47
 - **AP-2:** YGWA-1D, YGWA-1I, YGWA-2I, YGWA-3D, YGWA-3I, YGWA-14S and, YGWA-30I
 - **Gypsum Landfill:** GWA-2
 - **AMA-R6:** YGWA-17S, YGWA-18I, YGWA-18S, YGWA-20S, YGWA-21I, YGWA-39, YGWA-40, YGWA-4I, YGWA-5D, and YGWA-5I
- **Downgradient wells:** YGWC-44, YGWC-45, YGWC-46A, and YGWC-52

Well YGWC-46 was abandoned in June 2020, and baseline sampling began at well YGWC-46A in July 2020 to supplement existing data in well YGWC-46. YGWC-46 was screened during the 2019 evaluation and the findings of that report are summarized below. Reported observations from the August/September 2021 sample event for Appendix III constituent at YGWC-46A are compared to established interwell prediction limits in this analysis.

Currently, confidence intervals are used to evaluate the combined data from both wells for the Appendix IV constituents. All concentrations from both wells are below established MCLs. When a minimum of 8 samples have been collected from new well YGWC-46A, the Mann-Whitney test of medians will be used to evaluate whether the medians of both wells are statistically similar for the Appendix IV constituents. In cases where statistically significant differences are identified at the 99% confidence level, the historical record will be truncated so that only data from new well YGWC-46A, which may be more representative of present-day groundwater quality, are evaluated with confidence interval comparisons to respective Groundwater Protection Standards. Well YGWC-52 was installed in June 2020, and baseline sampling began in August 2020.

All data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Groundwater Statistician 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. 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 AP-2: mercury 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 Screening – Appendix III and IV Constituents - Conducted in April 2019

Outlier Analysis

Time series plots were used to identify suspected outliers for the original well network which consisted of upgradient well YGWA-47 and downgradient wells YGWC-44, YGWC-45, and YGWC-46, or extreme values that would result in limits that are not representative of the current background data population. All other upgradient well data from neighboring units were previously screened for outliers with their respective reports. Suspected outliers at all wells for Appendix III and IV parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey box plot method, a couple outliers were identified. While this did not occur 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.

The reported non-detect value of 0.01 mg/L for cobalt at well YGWC-45 and the detected value of 6.3 s.u. for pH at well YGWA-47 were flagged as outliers because they were both unusually high during a single event compared to all other values at neighboring wells. The high non-detect value for cobalt does not provide any useful information. When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages will display the flagged value in a lighter font as well.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Test Evaluation

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at upgradient well YGWA-47 and downgradient wells YGWC-44, YGWC-45, and YGWC-46 to identify whether statistically significant increasing or decreasing trends were present. The trend analyses showed a statistically significant increasing trend for lithium in well YGWC-46. Concentrations of lithium at this well decreased in 2019 and increased again in 2020.

The reports were submitted with the background screening analysis, and all other upgradient wells at neighboring units were evaluated for trends with their respective reports. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. While no records required adjustment at this time, if that is necessary in the future a summary report will be provided to show the date ranges used in construction of the statistical limits.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) is typically used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach (interwell or intrawell). However, only one upgradient well was present at the time of the screening and the ANOVA requires a minimum of two wells. Therefore, the ANOVA was not utilized in the background screening.

Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a

single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter. While data were further tested for intrawell eligibility during the screening, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Statistical Analysis of Appendix III Parameters – August/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. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. No new values were flagged for Appendix III parameters, and a summary of flagged outliers follows this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical pooled upgradient well data through 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 there are statistically significant increases (SSIs).

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. Therefore, no exceedance is noted, and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. A summary table of the interwell prediction limits follows this letter (Figure D). Prediction limit exceedances were noted for the following Appendix III well/constituent pairs:

- Boron: YGWC-44, YGWC-45, and YGWC-46A
- Calcium: YGWC-45, YGWC-46A, and YGWC-52
- Chloride: YGWC-44 and YGWC-46A
- Sulfate: YGWC-46A

- TDS: YGWC-44, YGWC-45, YGWC-46A, and YGWC-52

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen’s Slope/Mann Kendall trend test 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. No statistically significant increasing trends were identified for any downgradient wells. The following statistically significant trends were identified:

Increasing:

- Calcium: YGWA-1D, YGWA-21I, YGWA-17S, and GWA-2 (all upgradient)
- Chloride: YGWA-17S and YGWA-20S (both upgradient)
- Sulfate: YGWA-1D, YGWA-3D, YGWA-5I, and GWA-2 (all upgradient)

Decreasing:

- Boron: YGWA-40 and YGWA-47 (both upgradient)
- Calcium: YGWA-1I, YGWA-5D, YGWA-18S, YGWA-47, and YGWA-40 (all upgradient)
- Chloride: YGWA-3D, YGWA-3I, YGWA-5D, and YGWA-47 (all upgradient)
- Sulfate: YGWA-5D (upgradient), YGWA-39 (upgradient), YGWA-40 (upgradient), YGWA-47 (upgradient), and YGWC-46A
- 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. Downgradient 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 each of the detected Appendix IV constituents in 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 cadmium, mercury, selenium, and thallium. Beryllium and selenium were 100% non-detects at all downgradient wells.

The Sanitas software was used to calculate the tolerance limits and the confidence intervals. Those confidence intervals were compared to the Federal GWPS and to the State GWPS defined above. Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Summaries of confidence intervals and complete graphical results follow this letter. For both Federal and State confidence intervals, no exceedances were identified.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Yates AP-1. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Andrew T. Collins
Project Manager



Kristina L. Rayner
Groundwater Statistician

100% Non-Detects - Appendix I & II

Analysis Run 10/29/2021 7:30 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Antimony (mg/L)
GWC-1R, GWC-3R, GWC-6R

Arsenic (mg/L)
GWA-1

Beryllium (mg/L)
GWA-1, GWA-2, GWC-6R

Cadmium (mg/L)
GWA-2, GWC-6R

Lead (mg/L)
GWC-6R

Molybdenum (mg/L)
GWA-2, GWC-1R, GWC-2R, GWC-3R, GWC-4R, GWC-5R, GWC-6R

Selenium (mg/L)
GWA-2

Silver (mg/L)
GWA-2, GWC-1R, GWC-2R, GWC-3R, GWC-4R, GWC-6R

Thallium (mg/L)
GWC-1R, GWC-3R, GWC-4R, GWC-6R

100% Non-Detects - Appendix IV Downgradient

Analysis Run 10/28/2021 5:40 PM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Antimony (mg/L)
GWC-1R, GWC-3R, GWC-6R

Beryllium (mg/L)
GWC-6R

Cadmium (mg/L)
GWC-6R

Lead (mg/L)
GWC-6R

Molybdenum (mg/L)
GWC-1R, GWC-2R, GWC-3R, GWC-4R, GWC-5R, GWC-6R

Thallium (mg/L)
GWC-1R, GWC-3R, GWC-4R, GWC-6R

Date Ranges

Date: 10/28/2021 5:27 PM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Barium (mg/L)

GWC-4R background:3/28/2011-8/8/2018

GWC-5R background:8/14/2013-8/7/2018

Appendix I & II Intrawell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 8:05 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	GWC-5R	0.003	n/a	8/18/2021	0.0033	Yes	18	n/a	n/a	38.89	n/a	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Cobalt (mg/L)	GWC-3R	0.005	n/a	8/18/2021	0.01	Yes	18	n/a	n/a	100	n/a	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-1R	0.01	n/a	8/18/2021	0.019	Yes	18	n/a	n/a	66.67	n/a	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-3R	0.01	n/a	8/18/2021	0.017	Yes	18	n/a	n/a	61.11	n/a	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-2	0.009584	n/a	8/20/2021	0.014	Yes	23	0.004991	0.002	4.348	None	No	No	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-5R	0.01798	n/a	8/18/2021	0.026	Yes	15	0.00738	0.004189	0	None	No	No	0.0005852	Param Intra 1 of 2

Appendix I & II Intrawell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 8:05 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-2	0.003	n/a	8/20/2021	0.003ND	No	27	n/a	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-2R	0.003	n/a	8/18/2021	0.003ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-4R	0.003	n/a	8/18/2021	0.003ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-5R	0.003	n/a	8/18/2021	0.003ND	No	18	n/a	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-2	0.005	n/a	8/20/2021	0.005ND	No	27	n/a	n/a	n/a	100	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-1R	0.005	n/a	8/18/2021	0.0016J	No	18	n/a	n/a	n/a	88.89	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-2R	0.005	n/a	8/18/2021	0.005ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-3R	0.005	n/a	8/18/2021	0.0028J	No	18	n/a	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-4R	0.005	n/a	8/18/2021	0.005ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-5R	0.005	n/a	8/18/2021	0.0021J	No	18	n/a	n/a	n/a	72.22	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-6R	0.005	n/a	8/18/2021	0.005ND	No	24	n/a	n/a	n/a	83.33	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWA-2	0.07943	n/a	8/20/2021	0.036	No	27	0.05023	0.01305	0	None	No	0.0005852	Param Intra 1 of 2	
Barium (mg/L)	GWC-1R	0.09203	n/a	8/18/2021	0.076	No	18	0.04614	0.01903	0	None	No	0.0005852	Param Intra 1 of 2	
Barium (mg/L)	GWC-2R	0.13	n/a	8/18/2021	0.033	No	23	n/a	n/a	0	n/a	n/a	0.003415	NP Intra (normality) 1 of 2	
Barium (mg/L)	GWC-3R	0.1072	n/a	8/18/2021	0.014	No	18	0.1832	0.05976	0	None	sqrt(x)	0.0005852	Param Intra 1 of 2	
Barium (mg/L)	GWC-4R	0.0778	n/a	8/18/2021	0.04	No	19	0.1732	0.04443	0	None	sqrt(x)	0.0005852	Param Intra 1 of 2	
Barium (mg/L)	GWC-5R	0.06311	n/a	8/18/2021	0.013	No	14	0.03304	0.01162	0	None	No	0.0005852	Param Intra 1 of 2	
Barium (mg/L)	GWC-6R	0.1025	n/a	8/18/2021	0.035	No	24	0.04776	0.02401	0	None	No	0.0005852	Param Intra 1 of 2	
Beryllium (mg/L)	GWC-1R	0.003	n/a	8/18/2021	0.0003J	No	18	n/a	n/a	n/a	66.67	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-2R	0.003	n/a	8/18/2021	0.00022J	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-3R	0.003	n/a	8/18/2021	0.0011	No	18	n/a	n/a	n/a	38.89	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWC-4R	0.003	n/a	8/18/2021	0.00011J	No	23	n/a	n/a	n/a	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-5R	0.003	n/a	8/18/2021	0.0033	Yes	18	n/a	n/a	38.89	n/a	n/a	0.005373	NP Intra (normality) 1 of 2	
Cadmium (mg/L)	GWC-1R	0.0025	n/a	8/18/2021	0.00017J	No	18	n/a	n/a	n/a	94.44	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-2R	0.0025	n/a	8/18/2021	0.00016J	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-3R	0.0025	n/a	8/18/2021	0.00022J	No	18	n/a	n/a	n/a	88.89	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-4R	0.0005	n/a	8/18/2021	0.0005ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-5R	0.001	n/a	8/18/2021	0.001	No	18	n/a	n/a	n/a	44.44	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWA-2	0.0084	n/a	8/20/2021	0.005ND	No	27	n/a	n/a	n/a	70.37	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-1R	0.01	n/a	8/18/2021	0.0015J	No	18	n/a	n/a	n/a	61.11	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-2R	0.005	n/a	8/18/2021	0.005ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-3R	0.005	n/a	8/18/2021	0.005ND	No	18	n/a	n/a	n/a	33.33	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-4R	0.0062	n/a	8/18/2021	0.005ND	No	23	n/a	n/a	n/a	82.61	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-5R	0.01	n/a	8/18/2021	0.0023J	No	18	n/a	n/a	n/a	27.78	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-6R	0.01	n/a	8/18/2021	0.0015J	No	24	n/a	n/a	n/a	41.67	n/a	n/a	0.003124	NP Intra (normality) 1 of 2
Cobalt (mg/L)	GWA-2	0.006994	n/a	3/17/2020	0.003J	No	27	0.003556	0.001537	40.74	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2	
Cobalt (mg/L)	GWC-1R	0.008717	n/a	8/18/2021	0.0014J	No	18	-6.613	0.7756	50	Kaplan-Meier	ln(x)	0.0005852	Param Intra 1 of 2	
Cobalt (mg/L)	GWC-2R	0.04742	n/a	8/18/2021	0.00066J	No	23	0.02477	0.009863	4.348	None	No	0.0005852	Param Intra 1 of 2	
Cobalt (mg/L)	GWC-3R	0.005	n/a	8/18/2021	0.01	Yes	18	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2	
Cobalt (mg/L)	GWC-4R	0.007137	n/a	8/18/2021	0.0027J	No	23	0.002697	0.001934	34.78	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2	
Cobalt (mg/L)	GWC-5R	0.005	n/a	8/18/2021	0.00053J	No	18	n/a	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-6R	0.005	n/a	8/18/2021	0.005ND	No	24	n/a	n/a	n/a	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-2	0.025	n/a	8/20/2021	0.0012J	No	22	n/a	n/a	n/a	54.55	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-1R	0.005	n/a	8/18/2021	0.00067J	No	13	n/a	n/a	n/a	92.31	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-2R	0.005	n/a	8/18/2021	0.005ND	No	18	n/a	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-3R	0.016	n/a	8/18/2021	0.005ND	No	13	n/a	n/a	n/a	76.92	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-4R	0.005	n/a	8/18/2021	0.005ND	No	18	n/a	n/a	n/a	88.89	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-5R	0.005	n/a	8/18/2021	0.0022J	No	13	n/a	n/a	n/a	92.31	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-6R	0.005	n/a	8/18/2021	0.00083J	No	19	n/a	n/a	n/a	57.89	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-2	0.001	n/a	8/20/2021	0.001ND	No	27	n/a	n/a	n/a	100	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2

Appendix I & II Intrawell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 8:05 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	GWC-1R	0.001	n/a	8/18/2021	0.001ND	No	18	n/a	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-2R	0.001	n/a	8/18/2021	0.001ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-3R	0.001	n/a	8/18/2021	0.001ND	No	18	n/a	n/a	n/a	88.89	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-4R	0.001	n/a	8/18/2021	0.001ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-5R	0.001	n/a	8/18/2021	0.001ND	No	18	n/a	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWA-2	0.0002	n/a	8/20/2021	0.0002ND	No	27	n/a	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-1R	0.0002	n/a	8/18/2021	0.0002ND	No	18	n/a	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-2R	0.0002	n/a	8/18/2021	0.0002ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-3R	0.0002	n/a	8/18/2021	0.0002ND	No	18	n/a	n/a	n/a	94.44	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-4R	0.0002	n/a	8/18/2021	0.0002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-5R	0.0002	n/a	8/18/2021	0.0002ND	No	18	n/a	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-6R	0.0002	n/a	8/18/2021	0.0002ND	No	24	n/a	n/a	n/a	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-2	0.021	n/a	8/20/2021	0.014	No	22	n/a	n/a	n/a	13.64	n/a	n/a	0.003707	NP Intra (normality) 1 of 2
Nickel (mg/L)	GWC-1R	0.01331	n/a	8/18/2021	0.0028J	No	13	-6.05	0.655	38.46	Kaplan-Meier	ln(x)	0.0005852	Param Intra 1 of 2	
Nickel (mg/L)	GWC-2R	0.01015	n/a	8/18/2021	0.005ND	No	18	0.003546	0.00274	44.44	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2	
Nickel (mg/L)	GWC-3R	0.0054	n/a	8/18/2021	0.005ND	No	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2	
Nickel (mg/L)	GWC-4R	0.01	n/a	8/18/2021	0.0026J	No	18	n/a	n/a	77.78	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2	
Nickel (mg/L)	GWC-5R	0.005956	n/a	8/18/2021	0.0016J	No	13	0.002281	0.00139	30.77	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2	
Nickel (mg/L)	GWC-6R	0.005	n/a	8/18/2021	0.0012J	No	19	n/a	n/a	89.47	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2	
Selenium (mg/L)	GWC-1R	0.01	n/a	8/18/2021	0.019	Yes	18	n/a	n/a	66.67	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2	
Selenium (mg/L)	GWC-2R	0.01	n/a	8/18/2021	0.0042J	No	23	n/a	n/a	69.57	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2	
Selenium (mg/L)	GWC-3R	0.01	n/a	8/18/2021	0.017	Yes	18	n/a	n/a	61.11	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2	
Selenium (mg/L)	GWC-4R	0.01548	n/a	8/18/2021	0.0046J	No	23	0.007285	0.003569	34.78	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2	
Selenium (mg/L)	GWC-5R	0.04273	n/a	8/18/2021	0.017	No	18	0.1371	0.02884	5.556	None	sqrt(x)	0.0005852	Param Intra 1 of 2	
Selenium (mg/L)	GWC-6R	0.01	n/a	8/18/2021	0.0016J	No	24	n/a	n/a	70.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2	
Silver (mg/L)	GWC-5R	0.005	n/a	8/18/2021	0.00084J	No	13	n/a	n/a	100	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2	
Thallium (mg/L)	GWA-2	0.001	n/a	8/20/2021	0.001ND	No	26	n/a	n/a	n/a	88.46	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-2R	0.001	n/a	8/18/2021	0.001ND	No	21	n/a	n/a	n/a	95.24	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-5R	0.001	n/a	8/18/2021	0.001ND	No	17	n/a	n/a	n/a	100	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-2	0.01	n/a	8/20/2021	0.01ND	No	24	n/a	n/a	n/a	83.33	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-1R	0.01	n/a	8/18/2021	0.01ND	No	15	n/a	n/a	n/a	80	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-2R	0.01	n/a	8/18/2021	0.01ND	No	20	n/a	n/a	n/a	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-3R	0.01	n/a	8/18/2021	0.01ND	No	15	n/a	n/a	n/a	100	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-4R	0.01	n/a	8/18/2021	0.01ND	No	20	n/a	n/a	n/a	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-5R	0.01	n/a	8/18/2021	0.01ND	No	15	n/a	n/a	n/a	80	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-6R	0.01	n/a	8/18/2021	0.01ND	No	21	n/a	n/a	n/a	76.19	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-2	0.009584	n/a	8/20/2021	0.014	Yes	23	0.004991	0.002	4.348	None	No	0.0005852	Param Intra 1 of 2	
Zinc (mg/L)	GWC-1R	0.007102	n/a	8/18/2021	0.01ND	No	15	0.05264	0.0125	20	Kaplan-Meier	sqrt(x)	0.0005852	Param Intra 1 of 2	
Zinc (mg/L)	GWC-2R	0.01249	n/a	8/18/2021	0.01ND	No	20	0.0653	0.01977	10	None	sqrt(x)	0.0005852	Param Intra 1 of 2	
Zinc (mg/L)	GWC-3R	0.01462	n/a	8/18/2021	0.011	No	14	0.00605	0.003313	7.143	None	No	0.0005852	Param Intra 1 of 2	
Zinc (mg/L)	GWC-4R	0.01	n/a	8/18/2021	0.01ND	No	19	n/a	n/a	63.16	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2	
Zinc (mg/L)	GWC-5R	0.01798	n/a	8/18/2021	0.026	Yes	15	0.00738	0.004189	0	None	No	0.0005852	Param Intra 1 of 2	
Zinc (mg/L)	GWC-6R	0.01	n/a	8/18/2021	0.01ND	No	21	n/a	n/a	33.33	n/a	n/a	0.003999	NP Intra (normality) 1 of 2	

Appendix I & II Trend Test Summary - Intrawell Exceedances - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 8:10 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Zinc (mg/L)	GWC-5R	0.001961	170	98	Yes	23	0	n/a	n/a	0.01	NP

Appendix I & II Trend Test Summary - Prediction Limit Exceedances - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 8:10 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Beryllium (mg/L)	GWA-2 (bg)	0	0	191	No	36	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	GWC-5R	0.0000398	50	124	No	27	25.93	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-2 (bg)	-0.0001578	-161	-161	No	32	34.38	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWC-3R	0	22	124	No	27	74.07	n/a	n/a	0.01	NP
Selenium (mg/L)	GWA-2 (bg)	0	0	191	No	36	100	n/a	n/a	0.01	NP
Selenium (mg/L)	GWC-1R	0	-20	-124	No	27	48.15	n/a	n/a	0.01	NP
Selenium (mg/L)	GWC-3R	-0.00004976	-59	-124	No	27	40.74	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-2 (bg)	0.000108	54	146	No	30	10	n/a	n/a	0.01	NP
Zinc (mg/L)	GWC-5R	0.001961	170	98	Yes	23	0	n/a	n/a	0.01	NP

Appendix III Intrawell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/28/2021, 5:09 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg.	NBg.	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (S.U.)	GWC-5R	5.711	4.765	8/18/2021	4.76	Yes	9	5.238	0.1758	0	None	No	0.0006268	Param Intra	1 of 2

Appendix III Intrawell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/28/2021, 5:09 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBq	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GWA-2	0.2151	n/a	8/20/2021	0.06J	No	9	0.1174	0.03628	0	None	No	0.001254	Param Intra 1 of 2	
Fluoride (mg/L)	GWC-1R	0.1	n/a	8/18/2021	0.1ND	No	9	n/a	n/a	55.56	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2	
Fluoride (mg/L)	GWC-2R	0.1	n/a	8/18/2021	0.1ND	No	9	n/a	n/a	55.56	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2	
Fluoride (mg/L)	GWC-3R	0.22	n/a	8/18/2021	0.16	No	9	n/a	n/a	55.56	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2	
Fluoride (mg/L)	GWC-4R	0.15	n/a	8/18/2021	0.1ND	No	9	n/a	n/a	55.56	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2	
Fluoride (mg/L)	GWC-5R	0.37	n/a	8/18/2021	0.056J	No	9	n/a	n/a	55.56	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2	
Fluoride (mg/L)	GWC-6R	0.28	n/a	8/18/2021	0.1ND	No	9	n/a	n/a	55.56	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2	
pH (S.U.)	GWA-2	7.106	5.427	8/20/2021	5.86	No	21	6.266	0.401	0	None	No	0.0006268	Param Intra 1 of 2	
pH (S.U.)	GWC-1R	5.52	4.49	8/18/2021	5.08	No	9	n/a	n/a	0	n/a	n/a	0.03619	NP Intra (normality) 1 of 2	
pH (S.U.)	GWC-2R	6.8	4.35	8/18/2021	4.96	No	16	n/a	n/a	0	n/a	n/a	0.01291	NP Intra (normality) 1 of 2	
pH (S.U.)	GWC-3R	5.28	4.31	8/18/2021	4.73	No	9	n/a	n/a	0	n/a	n/a	0.03619	NP Intra (normality) 1 of 2	
pH (S.U.)	GWC-4R	6.245	4.827	8/18/2021	5.46	No	10	5.536	0.2783	0	None	No	0.0006268	Param Intra 1 of 2	
pH (S.U.)	GWC-5R	5.711	4.765	8/18/2021	4.76	Yes	9	5.238	0.1758	0	None	No	0.0006268	Param Intra 1 of 2	
pH (S.U.)	GWC-6R	6.687	5.169	8/18/2021	5.82	No	19	5.928	0.3559	0	None	No	0.0006268	Param Intra 1 of 2	

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 4:04 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg.NBg	Mean	Std.Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-4R	0.16	n/a	8/18/2021	4.5	Yes	312	n/a	n/a	47.12	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1R	37	n/a	8/18/2021	154	Yes	312	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2R	37	n/a	8/18/2021	45.8	Yes	312	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-4R	37	n/a	8/18/2021	56.2	Yes	312	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-5R	37	n/a	8/18/2021	159	Yes	312	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-6R	37	n/a	8/18/2021	74.5	Yes	312	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2R	8.5	n/a	8/18/2021	26.2	Yes	312	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-4R	8.5	n/a	8/18/2021	150	Yes	312	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-1R	160	n/a	8/18/2021	675	Yes	312	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2R	160	n/a	8/18/2021	223	Yes	312	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-5R	160	n/a	8/18/2021	946	Yes	312	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-6R	160	n/a	8/18/2021	345	Yes	312	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
TDS (mg/L)	GWC-1R	217.3	n/a	8/18/2021	1200	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-2R	217.3	n/a	8/18/2021	474	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-4R	217.3	n/a	8/18/2021	630	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-5R	217.3	n/a	8/18/2021	1660	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-6R	217.3	n/a	8/18/2021	682	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 4:04 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-1R	0.16	n/a	8/18/2021	0.029J	No	312	n/a	n/a	n/a	47.12	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-2R	0.16	n/a	8/18/2021	0.14	No	312	n/a	n/a	n/a	47.12	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-3R	0.16	n/a	8/18/2021	0.04ND	No	312	n/a	n/a	n/a	47.12	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-4R	0.16	n/a	8/18/2021	4.5	Yes	312	n/a	n/a	n/a	47.12	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-5R	0.16	n/a	8/18/2021	0.021J	No	312	n/a	n/a	n/a	47.12	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-6R	0.16	n/a	8/18/2021	0.04ND	No	312	n/a	n/a	n/a	47.12	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1R	37	n/a	8/18/2021	154	Yes	312	n/a	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2R	37	n/a	8/18/2021	45.8	Yes	312	n/a	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-3R	37	n/a	8/18/2021	20.2	No	312	n/a	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-4R	37	n/a	8/18/2021	56.2	Yes	312	n/a	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-5R	37	n/a	8/18/2021	159	Yes	312	n/a	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-6R	37	n/a	8/18/2021	74.5	Yes	312	n/a	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-1R	8.5	n/a	8/18/2021	5.2	No	312	n/a	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2R	8.5	n/a	8/18/2021	26.2	Yes	312	n/a	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-3R	8.5	n/a	8/18/2021	4.6	No	312	n/a	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-4R	8.5	n/a	8/18/2021	150	Yes	312	n/a	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-5R	8.5	n/a	8/18/2021	2.3	No	312	n/a	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6R	8.5	n/a	8/18/2021	5.4	No	312	n/a	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-1R	160	n/a	8/18/2021	675	Yes	312	n/a	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2R	160	n/a	8/18/2021	223	Yes	312	n/a	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-3R	160	n/a	8/18/2021	114	No	312	n/a	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-4R	160	n/a	8/18/2021	118	No	312	n/a	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-5R	160	n/a	8/18/2021	946	Yes	312	n/a	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-6R	160	n/a	8/18/2021	345	Yes	312	n/a	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
TDS (mg/L)	GWC-1R	217.3	n/a	8/18/2021	1200	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2	
TDS (mg/L)	GWC-2R	217.3	n/a	8/18/2021	474	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2	
TDS (mg/L)	GWC-3R	217.3	n/a	8/18/2021	214	No	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2	
TDS (mg/L)	GWC-4R	217.3	n/a	8/18/2021	630	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2	
TDS (mg/L)	GWC-5R	217.3	n/a	8/18/2021	1660	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2	
TDS (mg/L)	GWC-6R	217.3	n/a	8/18/2021	682	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2	

Appendix III Trend Test Summary - Intrawell Exceedances - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/28/2021, 5:30 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
pH (S.U.)	GWC-5R	-0.09154	-109	-74	Yes	19	0	n/a	n/a	0.01	NP

Appendix III Trend Test Summary - Intrawell Exceedances - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/28/2021, 5:30 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH (S.U.)	GWA-2 (bg)	-0.03819	-145	-146	No	30	0	n/a	n/a	0.01	NP
pH (S.U.)	GWC-5R	-0.09154	-109	-74	Yes	19	0	n/a	n/a	0.01	NP

Appendix III Trend Test Summary - Interwell Exceedances - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 4:11 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-40 (bg)	-0.01963	-52	-48	Yes	14	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
Calcium (mg/L)	GWA-2 (bg)	4.423	71	53	Yes	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-2R	7.598	63	53	Yes	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.12	74	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.07527	-79	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.7142	68	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.1058	-73	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	1.218	82	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.845	-69	-48	Yes	14	7.143	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-2.169	-74	-63	Yes	17	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-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)	YGWA-47 (bg)	-0.4824	-58	-48	Yes	14	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
Sulfate (mg/L)	GWA-2 (bg)	23.3	74	53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	1.025	88	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-3.378	-51	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.4885	74	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-10.75	-65	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-21.6	-78	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-3.658	-104	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.09609	85	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-2R	64.22	57	53	Yes	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-40 (bg)	-16.17	-53	-48	Yes	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-47 (bg)	-15.69	-67	-48	Yes	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-5D (bg)	-17	-86	-63	Yes	17	0	n/a	n/a	0.01	NP

Appendix III Trend Test Summary - Interwell Exceedances - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 4:11 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GWA-2 (bg)	0	11	53	No	15	60	n/a	n/a	0.01	NP
Boron (mg/L)	GWC-4R	0.1339	13	53	No	15	0	n/a	n/a	0.01	NP
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-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-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-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-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-39 (bg)	0.004253	27	48	No	14	7.143	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)	YGWA-40 (bg)	-0.01963	-52	-48	Yes	14	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-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
Calcium (mg/L)	GWA-2 (bg)	4.423	71	53	Yes	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-1R	3.808	9	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-2R	7.598	63	53	Yes	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-4R	3.444	29	53	No	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-5R	7.109	43	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-6R	4.534	12	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-14S (bg)	-0.01957	-45	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.12	74	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18I (bg)	0.02122	10	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.07527	-79	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.7142	68	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.1058	-73	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-20S (bg)	0.06963	56	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	1.218	82	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-2I (bg)	0.3107	22	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0	0	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	0.6588	26	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.5989	46	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.5549	41	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-40 (bg)	-0.8022	-47	-48	No	14	7.143	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.845	-69	-48	Yes	14	7.143	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-4I (bg)	0.2132	21	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-2.169	-74	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.07389	58	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
Chloride (mg/L)	GWC-2R	1.955	50	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-4R	3.199	11	53	No	15	0	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-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-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-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

Appendix III Trend Test Summary - Interwell Exceedances - All Results Page 2

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 4:11 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
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-39 (bg)	0.3996	26	48	No	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)	YGWA-40 (bg)	0.2116	37	48	No	14	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-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
Sulfate (mg/L)	GWA-2 (bg)	23.3	74	53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-1R	7.337	1	53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-2R	26.07	45	53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-5R	-5.034	-3	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-6R	-3.022	-1	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-14S (bg)	0.08247	21	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0.1098	59	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.1768	-60	-63	No	17	23.53	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18S (bg)	-0.1647	-50	-63	No	17	11.76	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	1.025	88	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1I (bg)	-0.2433	-23	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	30	63	No	17	64.71	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.1968	-22	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	0.4455	27	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.07072	-31	-63	No	17	11.76	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-3.378	-51	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.4885	74	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	1.181	61	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-10.75	-65	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-21.6	-78	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-4I (bg)	0.1495	44	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-3.658	-104	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.09609	85	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-2 (bg)	25.14	48	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-1R	10.15	3	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-2R	64.22	57	53	Yes	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-4R	11.94	12	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-5R	-27.21	-9	-53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-6R	21.01	9	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-14S (bg)	1.46	17	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-17S (bg)	5.4	32	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-18I (bg)	-1.272	-13	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-18S (bg)	0.4413	9	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-1D (bg)	0.915	10	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-1I (bg)	-3.586	-32	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-20S (bg)	3.135	31	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-21I (bg)	13.94	56	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-2I (bg)	-2.761	-35	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-30I (bg)	1.885	20	63	No	17	11.76	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-39 (bg)	25.58	41	48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-3D (bg)	1.346	10	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-3I (bg)	1.702	14	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-40 (bg)	-16.17	-53	-48	Yes	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-47 (bg)	-15.69	-67	-48	Yes	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-4I (bg)	0.3992	4	63	No	17	0	n/a	n/a	0.01	NP

Appendix III Trend Test Summary - Interwell Exceedances - All Results Page 3

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 4:11 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
TDS (mg/L)	YGWA-5D (bg)	-17	-86	-63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-5I (bg)	0	-1	-63	No	17	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 3:43 PM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.0047	334	n/a	n/a	86.83	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	382	n/a	n/a	78.8	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.071	382	n/a	n/a	2.88	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0005	366	n/a	n/a	80.87	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.0005	366	n/a	n/a	95.63	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	334	n/a	n/a	78.74	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	378	n/a	n/a	69.31	n/a	n/a	NaN	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	6.92	361	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	0.68	381	n/a	n/a	67.98	n/a	n/a	NaN	NP Inter(normality)
Lead (mg/L)	0.0013	336	n/a	n/a	83.63	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	361	n/a	n/a	27.15	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.0002	290	n/a	n/a	93.1	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.014	325	n/a	n/a	60	n/a	n/a	NaN	NP Inter(normality)
Selenium (mg/L)	0.005	364	n/a	n/a	92.03	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	300	n/a	n/a	96.67	n/a	n/a	NaN	NP Inter(NDs)

YATES LANDFILL GYPSUM STACK GWPS			
Constituent Name	MCL	Background Limit	GWPS
Antimony, Total (mg/L)	0.006	0.0047	0.006
Arsenic, Total (mg/L)	0.01	0.005	0.01
Barium, Total (mg/L)	2	0.071	2
Beryllium, Total (mg/L)	0.004	0.0005	0.004
Cadmium, Total (mg/L)	0.005	0.0005	0.005
Chromium, Total (mg/L)	0.1	0.0093	0.1
Cobalt, Total (mg/L)	n/a	0.035	0.035
Combined Radium, Total (pCi/L)	5	6.92	6.92
Fluoride, Total (mg/L)	4	0.68	4
Lead, Total (mg/L)	n/a	0.0013	0.0013
Lithium, Total (mg/L)	n/a	0.03	0.03
Mercury, Total (mg/L)	0.002	0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.014	0.014
Selenium, Total (mg/L)	0.05	0.005	0.05
Thallium, Total (mg/L)	0.002	0.001	0.002

**Grey cell indicates Background Limit is higher than MCL*

**MCL = Maximum Contaminant Level*

**GWPS = Groundwater Protection Standard*

Appendix IV Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 7:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWC-2R	0.003	0.0017	0.006	No	18	0.002928	0.0003064	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-4R	0.003	0.0014	0.006	No	18	0.002623	0.0008911	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-5R	0.003	0.00054	0.006	No	18	0.002714	0.0008336	88.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-1R	0.005	0.0011	0.01	No	18	0.003708	0.001916	66.67	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-2R	0.005	0.0011	0.01	No	18	0.004547	0.001319	88.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-3R	0.005	0.0017	0.01	No	18	0.004073	0.001584	72.22	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-4R	0.005	0.00059	0.01	No	18	0.004498	0.001462	88.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-5R	0.0024	0.00092	0.01	No	18	0.002131	0.001646	22.22	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-6R	0.005	0.00072	0.01	No	18	0.002994	0.002096	50	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-1R	0.0711	0.0322	2	No	18	0.05153	0.01848	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-2R	0.0526	0.04389	2	No	18	0.04824	0.007204	0	None	No	0.01	Param.
Barium (mg/L)	GWC-3R	0.03169	0.01989	2	No	18	0.02579	0.009758	0	None	No	0.01	Param.
Barium (mg/L)	GWC-4R	0.035	0.017	2	No	18	0.02429	0.008831	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-5R	0.0345	0.013	2	No	18	0.02087	0.01027	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-6R	0.06957	0.04746	2	No	18	0.05852	0.01827	0	None	No	0.01	Param.
Beryllium (mg/L)	GWC-1R	0.003	0.00008	0.004	No	18	0.001095	0.001387	33.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-2R	0.003	0.00014	0.004	No	18	0.001584	0.001459	50	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-3R	0.0007298	0.0003243	0.004	No	18	0.0006344	0.0006449	5.556	None	ln(x)	0.01	Param.
Beryllium (mg/L)	GWC-4R	0.003	0.00011	0.004	No	18	0.002513	0.001121	83.33	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-5R	0.00219	0.0007502	0.004	No	18	0.001619	0.001192	5.556	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	GWC-1R	0.0005	0.00016	0.005	No	18	0.0003978	0.0001705	72.22	None	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-2R	0.0005	0.00016	0.005	No	18	0.0003794	0.0001762	66.67	None	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-3R	0.0005	0.00018	0.005	No	18	0.0003511	0.0001623	50	None	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-4R	0.0005	0.0001	0.005	No	18	0.0004778	0.00009428	94.44	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-5R	0.0009532	0.000579	0.005	No	18	0.0007661	0.0003093	5.556	None	No	0.01	Param.
Chromium (mg/L)	GWC-1R	0.0015	0.001	0.1	No	18	0.001967	0.001676	22.22	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-2R	0.005	0.0008	0.1	No	18	0.00402	0.001888	77.78	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-3R	0.0017	0.0009	0.1	No	18	0.002006	0.001665	22.22	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-4R	0.005	0.0011	0.1	No	18	0.003843	0.001926	72.22	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-5R	0.0024	0.0018	0.1	No	18	0.002311	0.0007332	5.556	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-6R	0.0017	0.0012	0.1	No	18	0.001966	0.001412	16.67	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-1R	0.005	0.00064	0.035	No	18	0.002074	0.001962	27.78	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-2R	0.02103	0.0104	0.035	No	18	0.01571	0.008785	5.556	None	No	0.01	Param.
Cobalt (mg/L)	GWC-3R	0.0086	0.0041	0.035	No	18	0.005689	0.002558	61.11	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-4R	0.0031	0.0006	0.035	No	18	0.002331	0.002179	16.67	None	No	0.01	NP (Cohens/xfrm)
Cobalt (mg/L)	GWC-5R	0.005	0.00044	0.035	No	18	0.003723	0.00212	72.22	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-6R	0.005	0.005	0.035	No	18	0.005	0	100	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GWC-1R	1.037	0.5505	6.92	No	14	0.7939	0.3436	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2R	1.466	0.6398	6.92	No	14	1.053	0.5835	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-3R	1.073	0.2435	6.92	No	14	0.7206	0.7039	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-4R	0.6158	0.2042	6.92	No	14	0.41	0.2905	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-5R	0.8872	0.2357	6.92	No	14	0.6058	0.4502	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-6R	1.117	0.4306	6.92	No	14	0.8079	0.5687	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GWC-1R	0.1	0.06	4	No	17	0.08882	0.02118	76.47	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-2R	0.58	0.08	4	No	17	0.1165	0.1218	70.59	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-3R	0.15	0.07	4	No	17	0.1285	0.1251	41.18	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-4R	0.11	0.08	4	No	17	0.09882	0.02027	76.47	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-5R	0.35	0.056	4	No	17	0.1135	0.0967	52.94	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-6R	0.28	0.07	4	No	17	0.1012	0.05134	76.47	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-1R	0.001	0.000067	0.0013	No	18	0.0008955	0.0003042	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-2R	0.001	0.00007	0.0013	No	18	0.0006402	0.0004642	61.11	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-3R	0.001	0.000082	0.0013	No	18	0.0006459	0.0004571	61.11	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-4R	0.001	0.000041	0.0013	No	18	0.0009467	0.000226	94.44	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-5R	0.001	0.00007	0.0013	No	18	0.0006945	0.0004455	66.67	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-1R	0.03	0.0012	0.03	No	15	0.007229	0.01179	20	None	No	0.01	NP (normality)

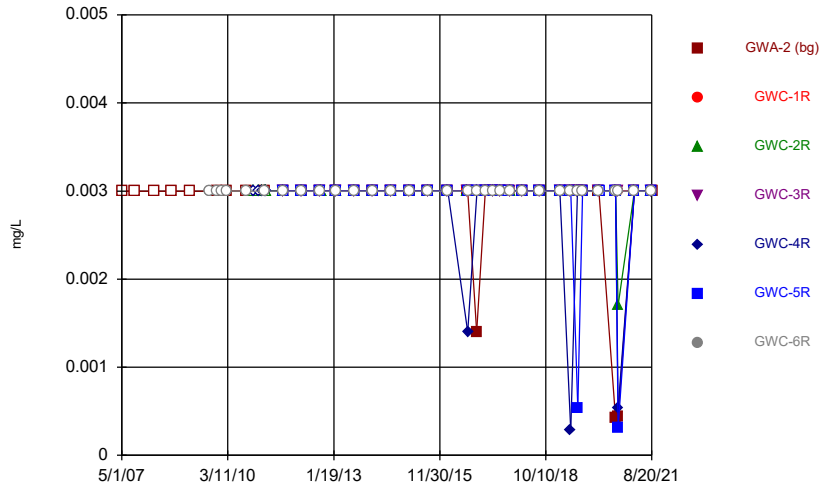
Appendix IV Confidence Intervals - All Results (No Significant) Page 2

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 7:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	GWC-2R	0.03	0.0035	0.03	No	15	0.00928	0.01074	20	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-3R	0.03	0.0012	0.03	No	15	0.02421	0.012	80	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-4R	0.03	0.0011	0.03	No	15	0.02037	0.0141	66.67	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-5R	0.03	0.0014	0.03	No	15	0.01669	0.01473	53.33	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-6R	0.03	0.0018	0.03	No	15	0.01018	0.01249	26.67	None	No	0.01	NP (normality)
Mercury (mg/L)	GWC-1R	0.0002	0.000059	0.002	No	18	0.0001922	0.00003323	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-2R	0.0002	0.000071	0.002	No	18	0.0001928	0.00003041	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-3R	0.00043	0.000064	0.002	No	18	0.0001949	0.00007887	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-4R	0.0002	0.000058	0.002	No	18	0.0001921	0.00003347	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-5R	0.0002	0.00006	0.002	No	18	0.0001922	0.000033	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-6R	0.0002	0.000067	0.002	No	18	0.0001821	0.00005289	88.89	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-1R	0.011	0.0022	0.05	No	18	0.006067	0.004707	22.22	None	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWC-2R	0.003979	0.002554	0.05	No	18	0.003267	0.001178	11.11	None	No	0.01	Param.
Selenium (mg/L)	GWC-3R	0.0091	0.0021	0.05	No	18	0.0058	0.004065	16.67	None	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWC-4R	0.005	0.003	0.05	No	18	0.004839	0.002778	5.556	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-5R	0.0263	0.01833	0.05	No	18	0.02232	0.006591	0	None	No	0.01	Param.
Selenium (mg/L)	GWC-6R	0.004023	0.002459	0.05	No	18	0.003317	0.001294	11.11	None	sqrt(x)	0.01	Param.
Thallium (mg/L)	GWC-2R	0.001	0.00007	0.002	No	18	0.0009483	0.0002192	94.44	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-5R	0.001	0.000053	0.002	No	18	0.0009474	0.0002232	94.44	None	No	0.01	NP (NDs)

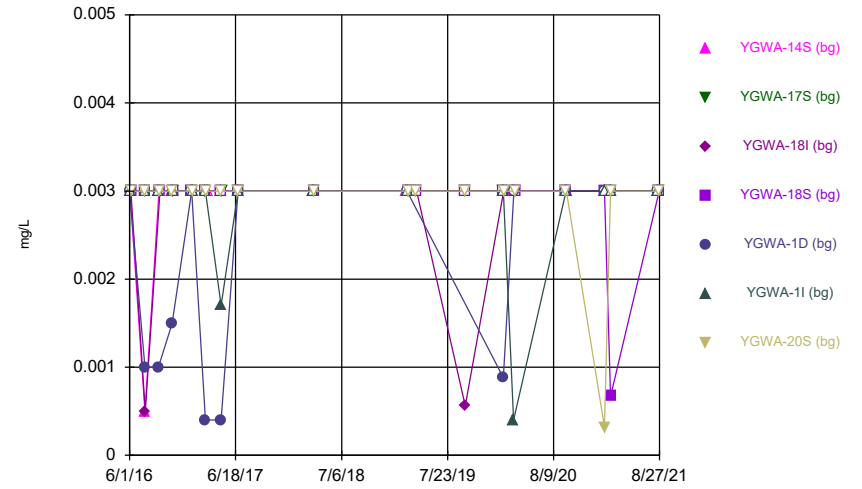
FIGURE A.

Time Series



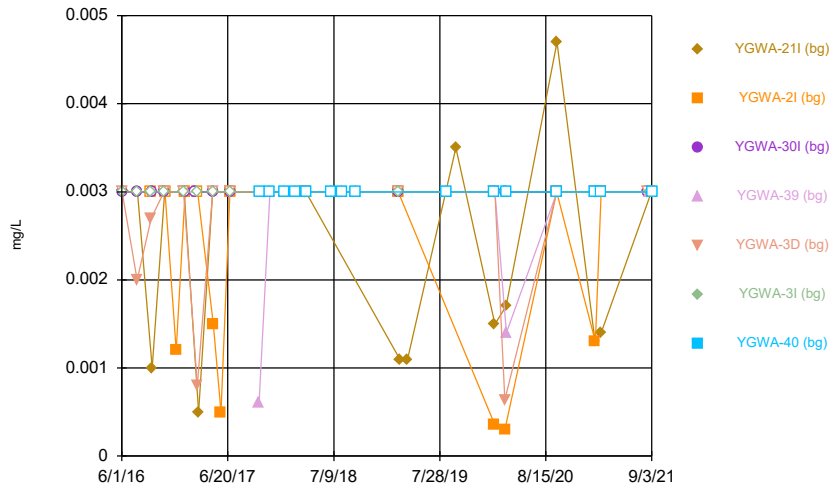
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



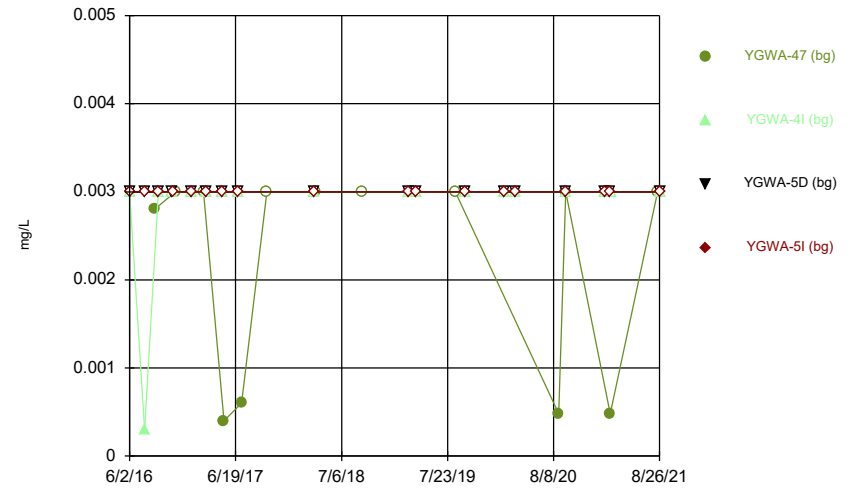
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Time Series



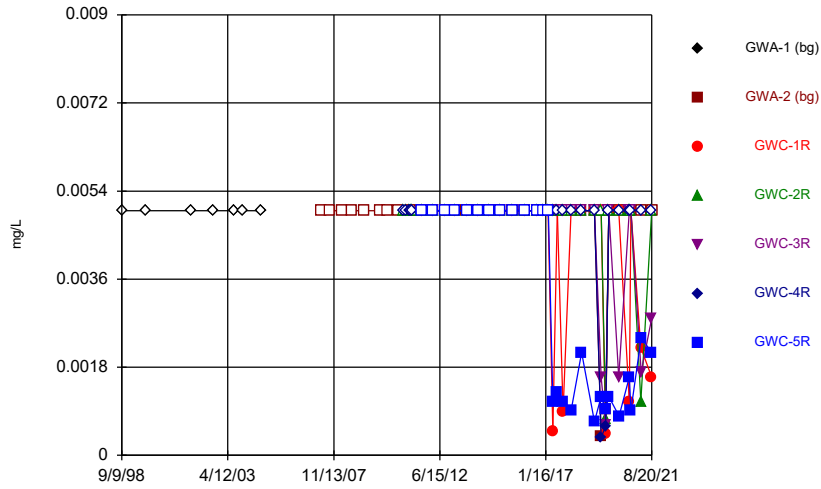
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Time Series



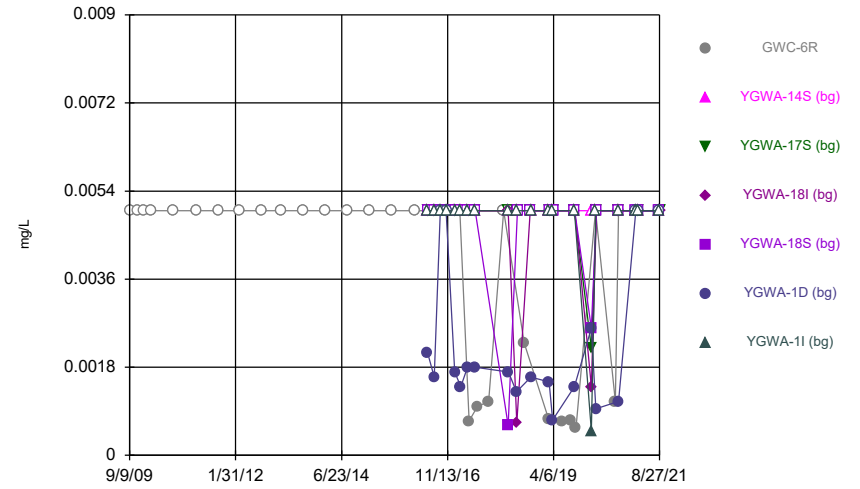
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Time Series



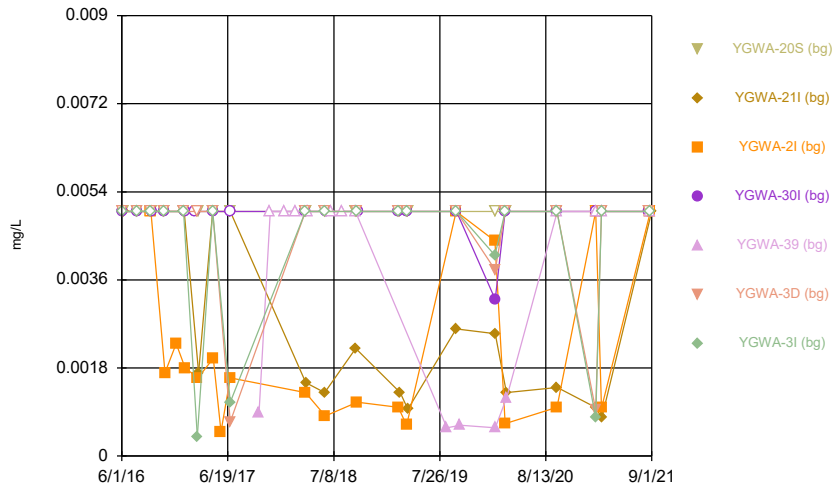
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Time Series



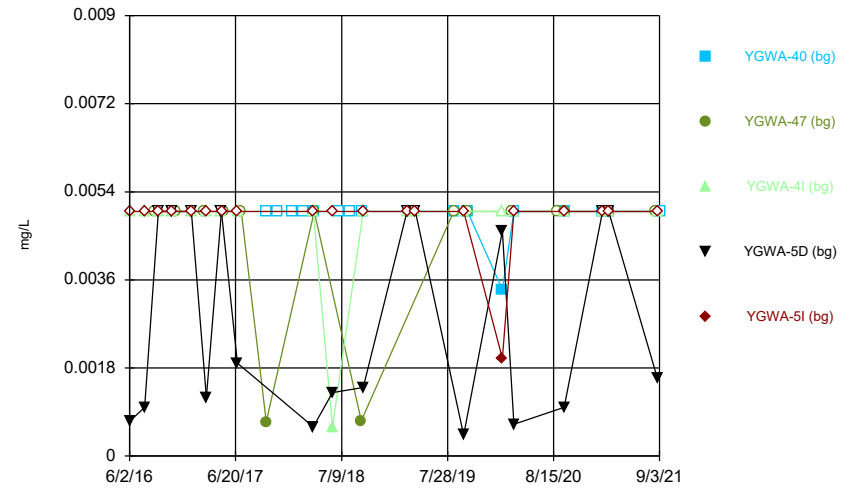
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Time Series



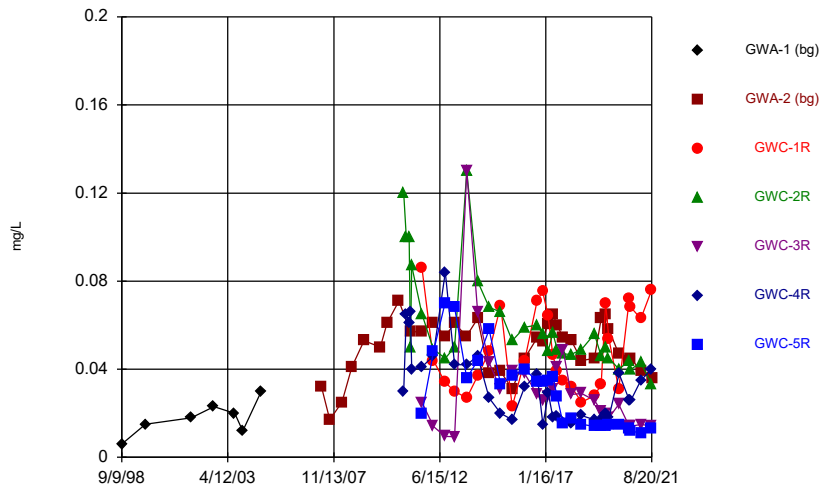
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

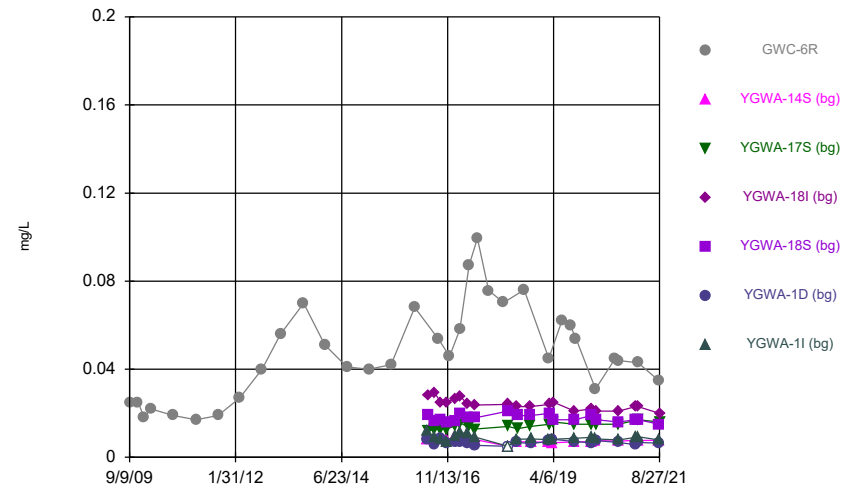
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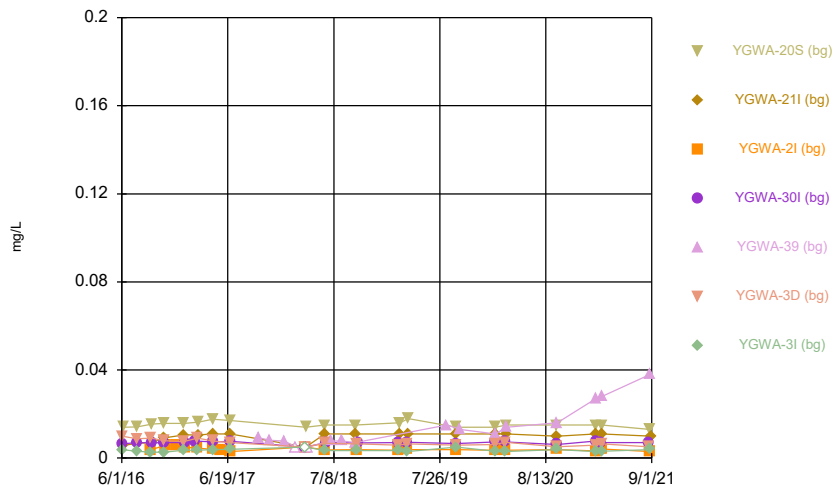
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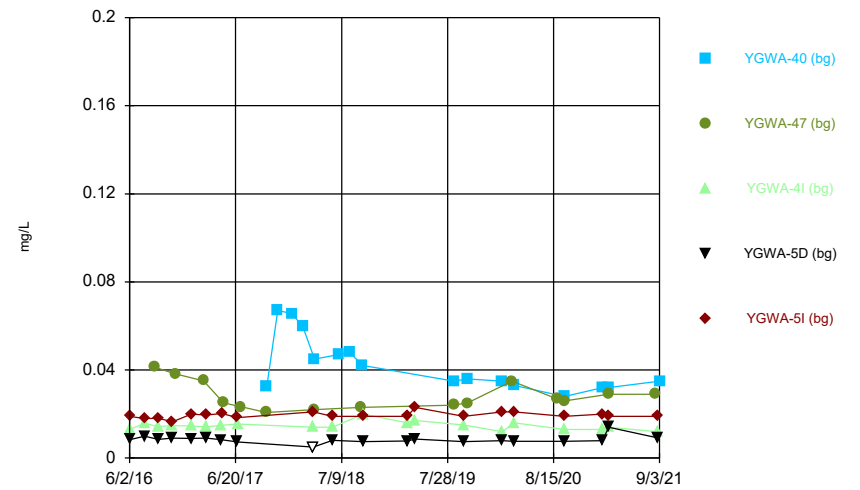
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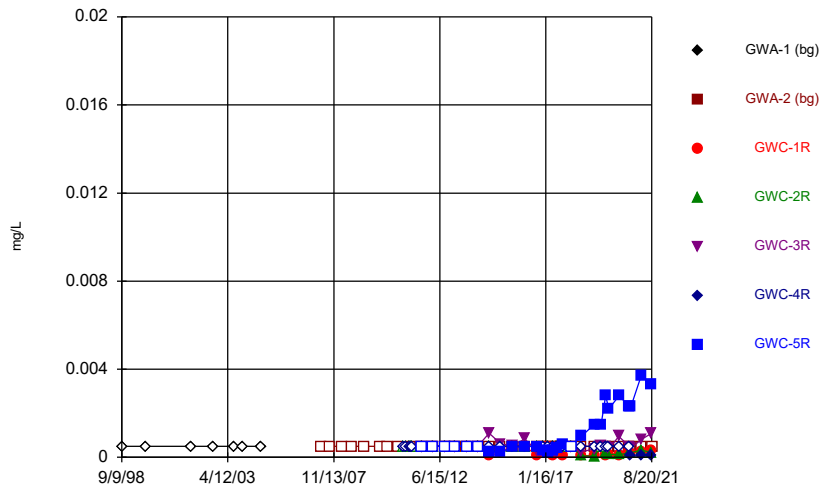
Hollow symbols indicate censored values.

Time Series



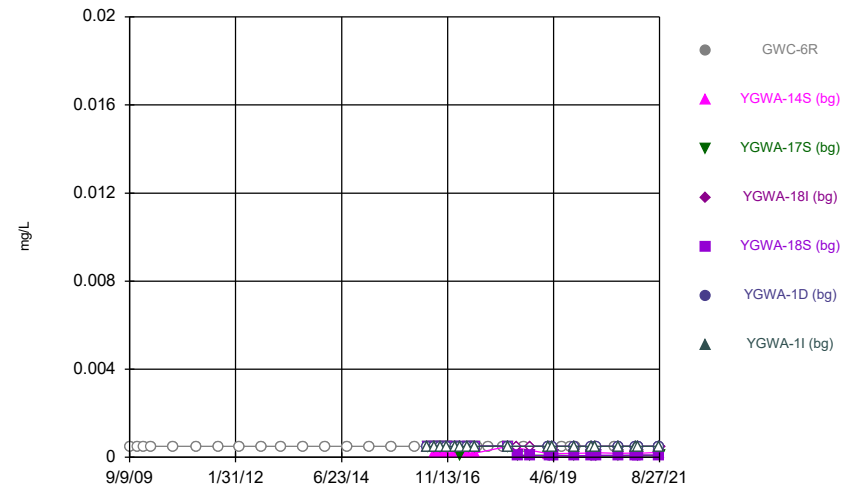
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Time Series



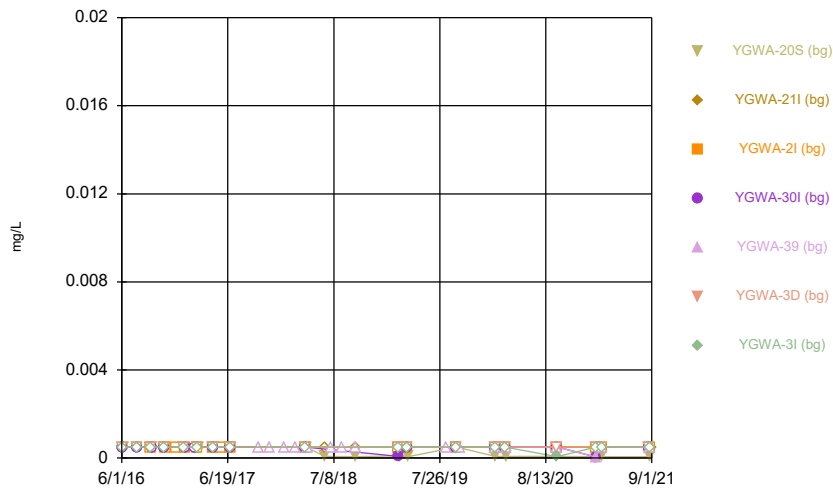
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Time Series



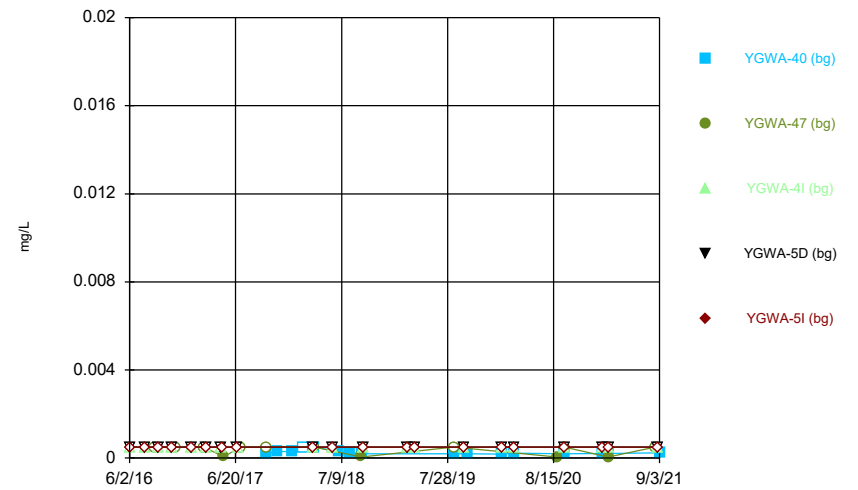
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Time Series



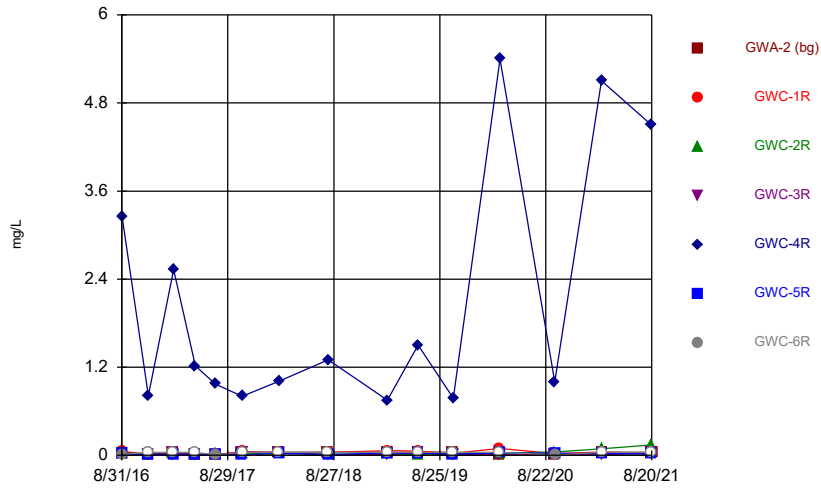
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Time Series



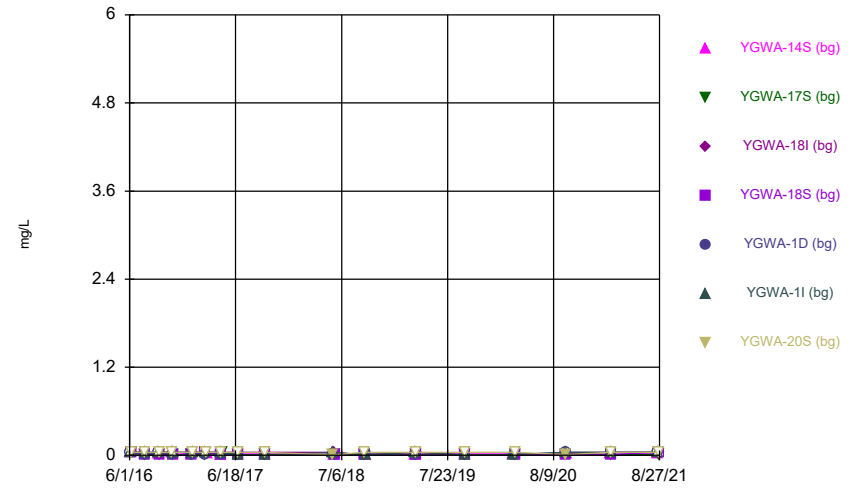
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Time Series



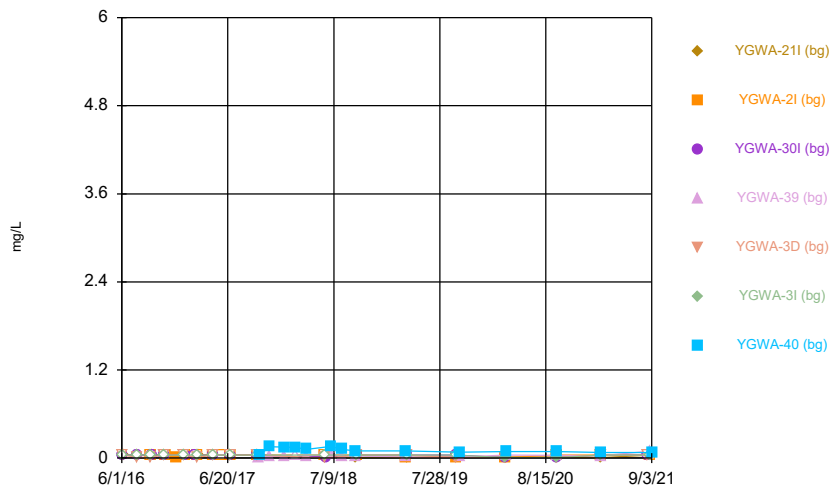
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Time Series



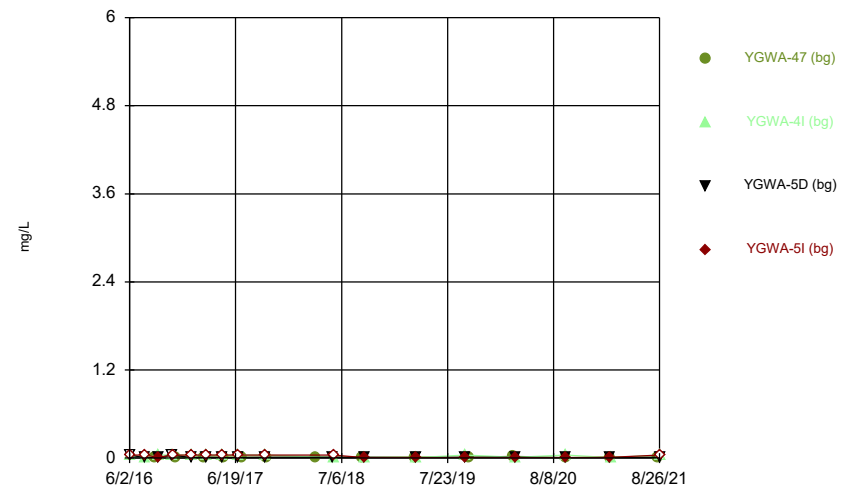
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Time Series



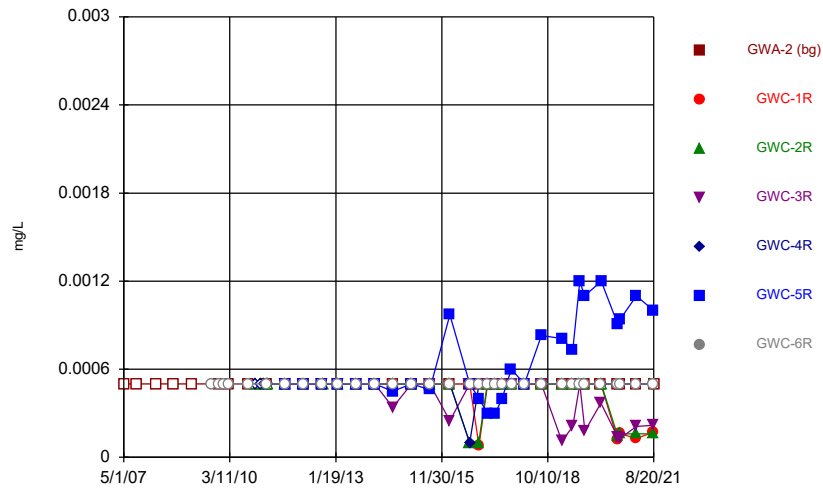
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Time Series



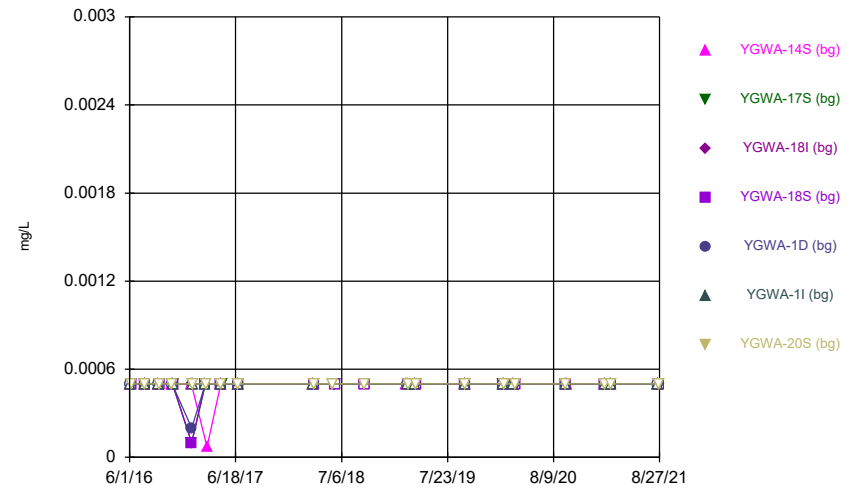
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Time Series



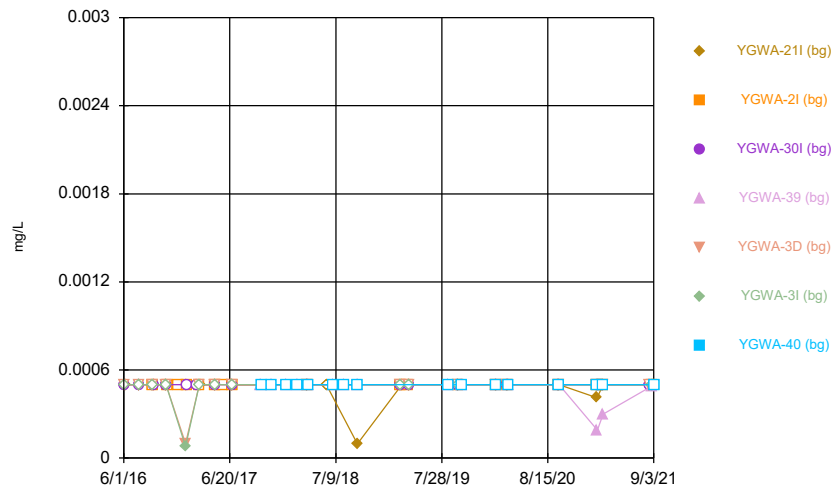
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Time Series



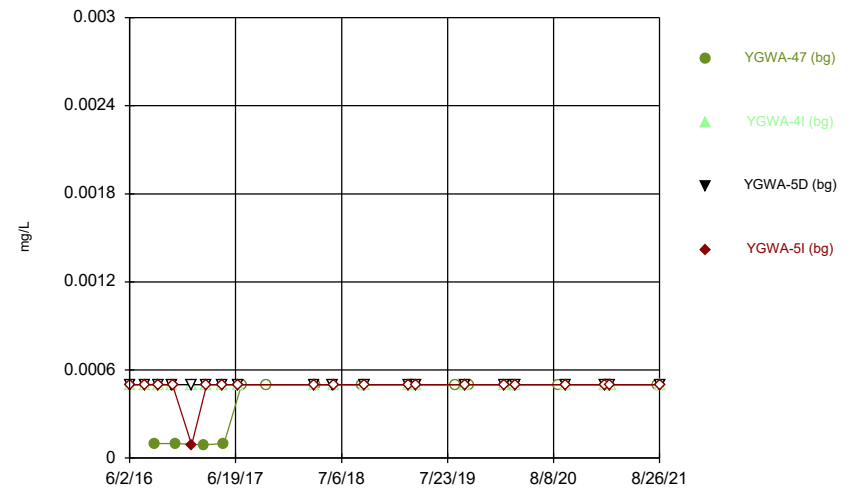
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Time Series



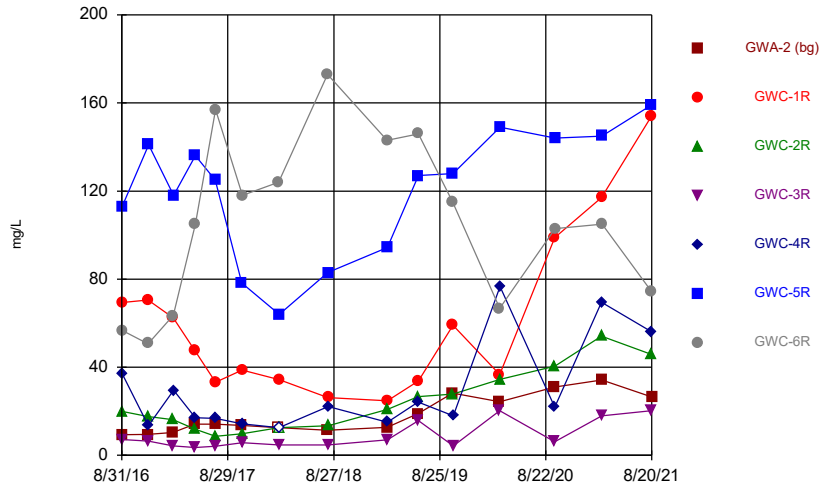
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Time Series



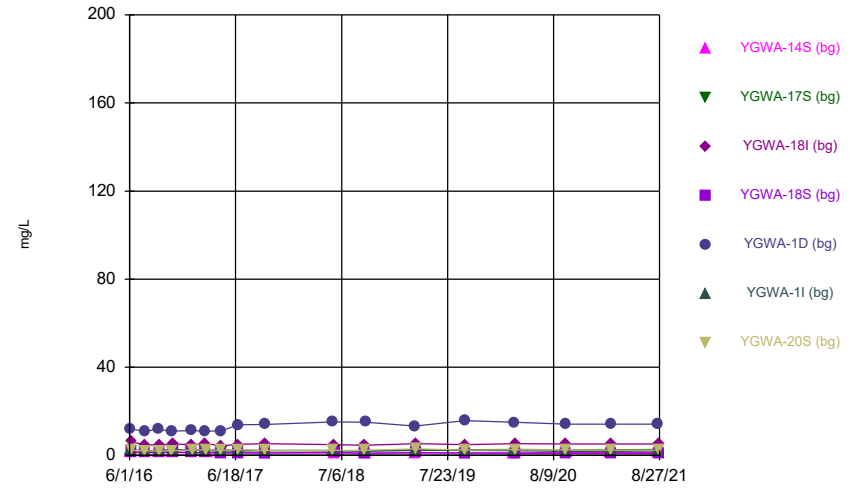
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Time Series



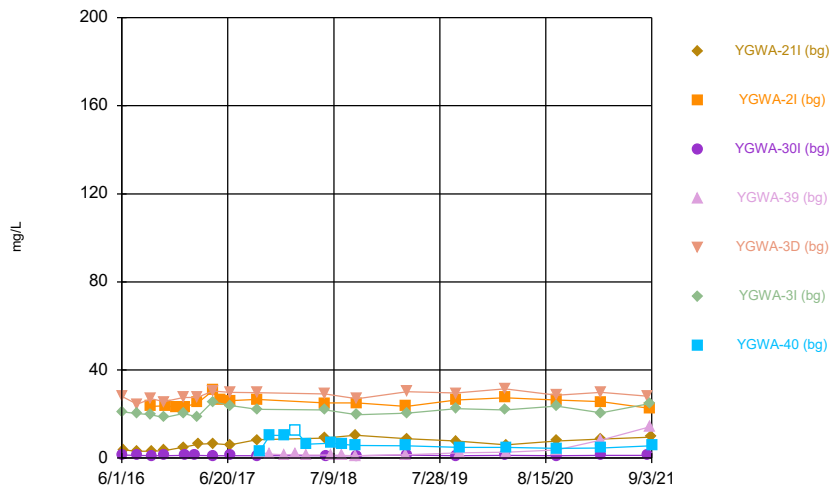
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Time Series



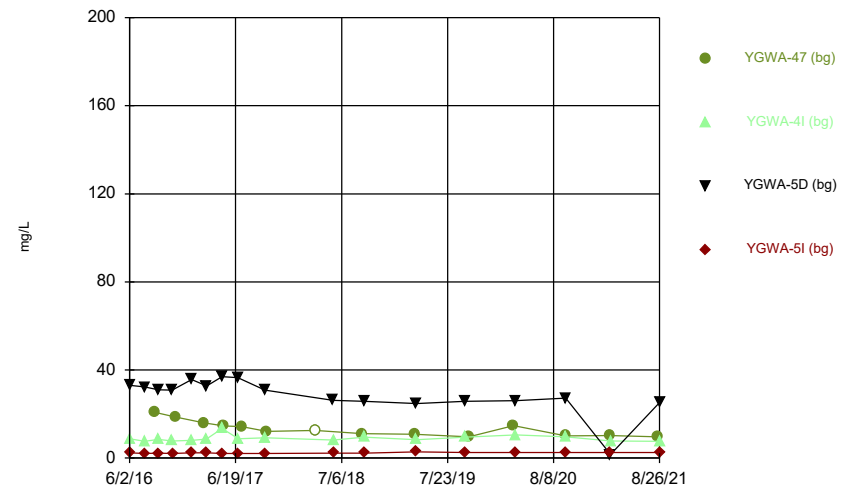
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Time Series



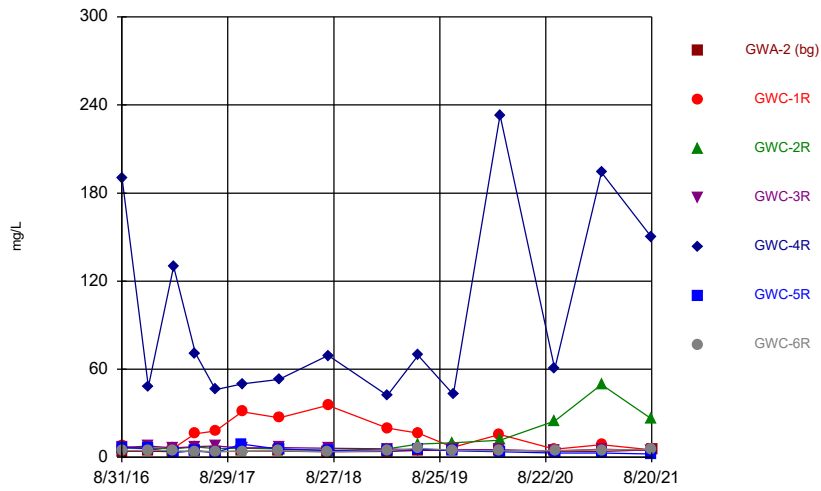
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Time Series



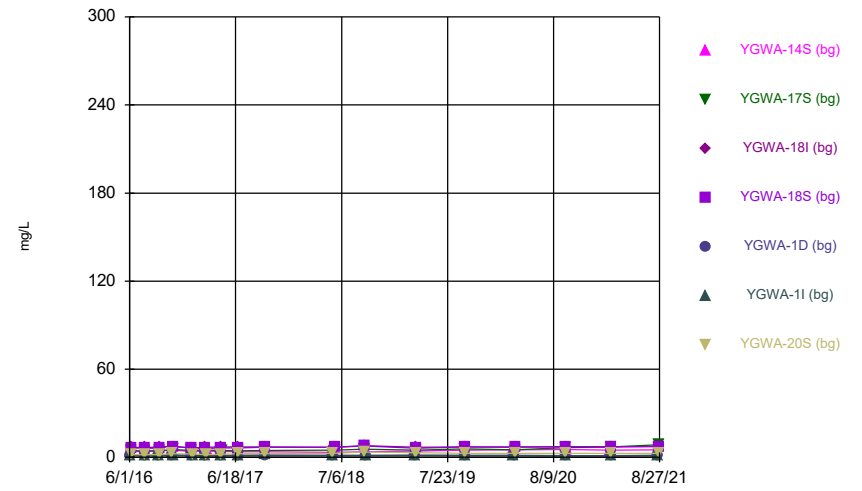
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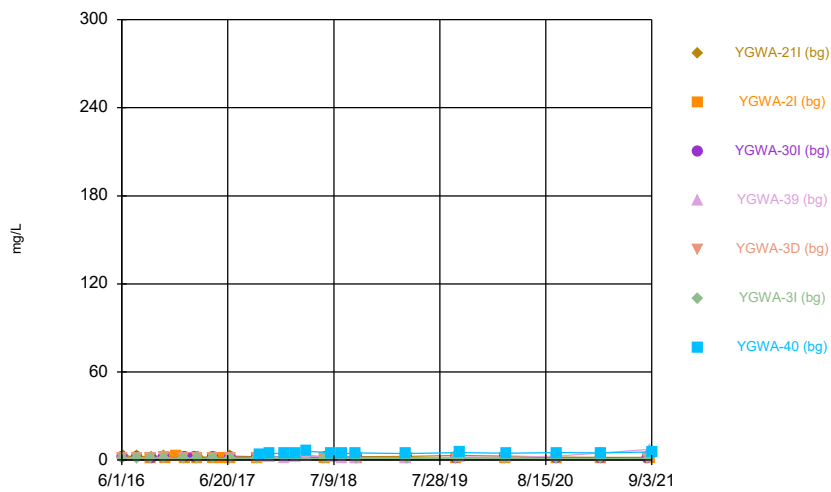
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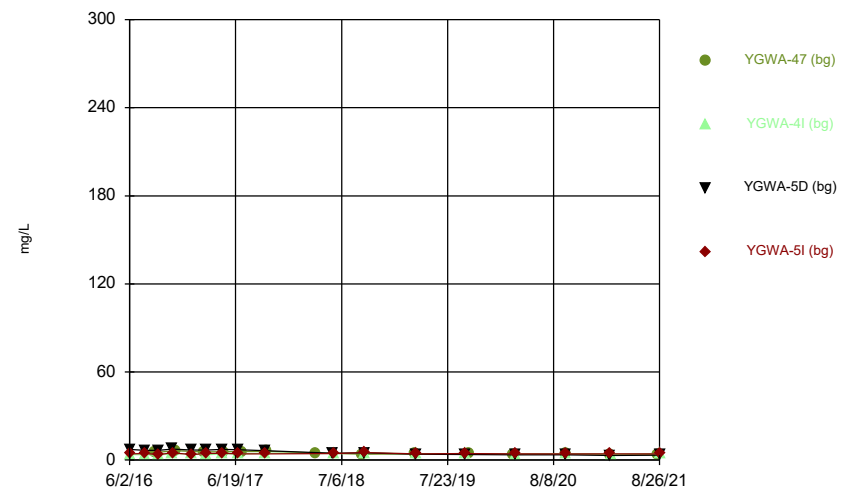
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Time Series



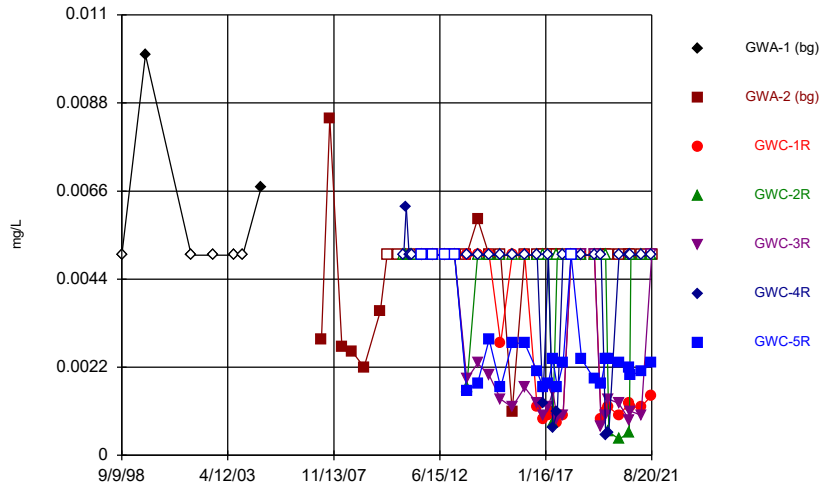
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Time Series



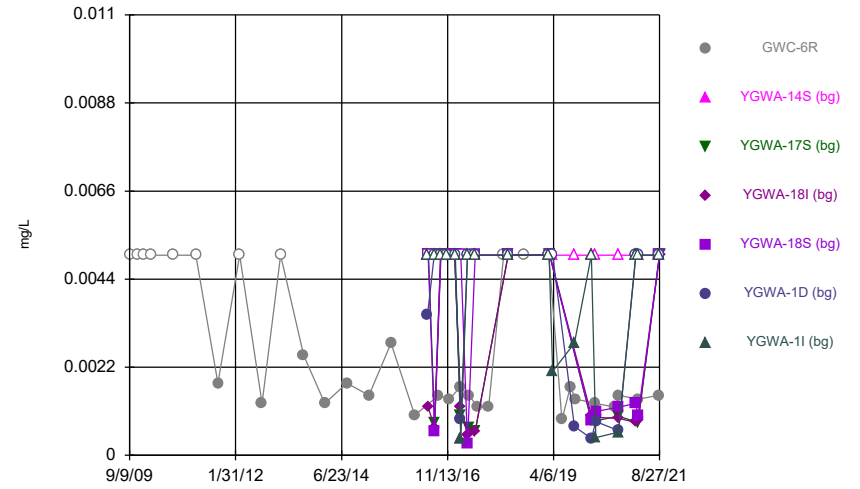
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Time Series



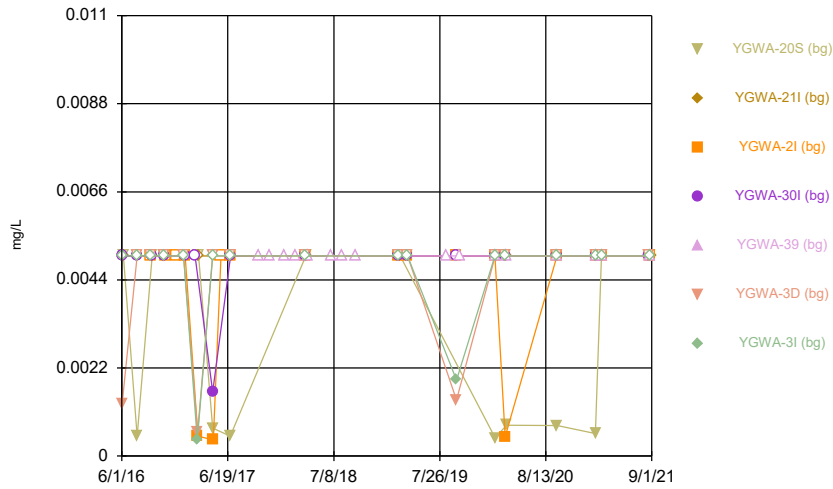
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Time Series



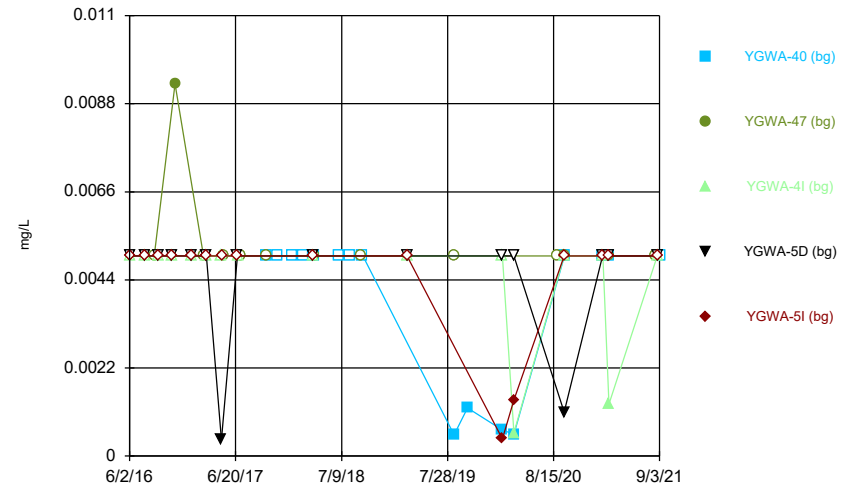
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Time Series



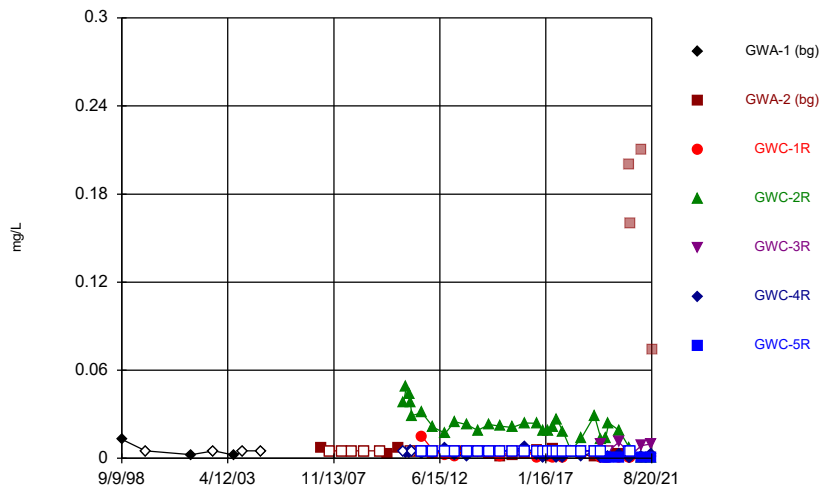
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Time Series



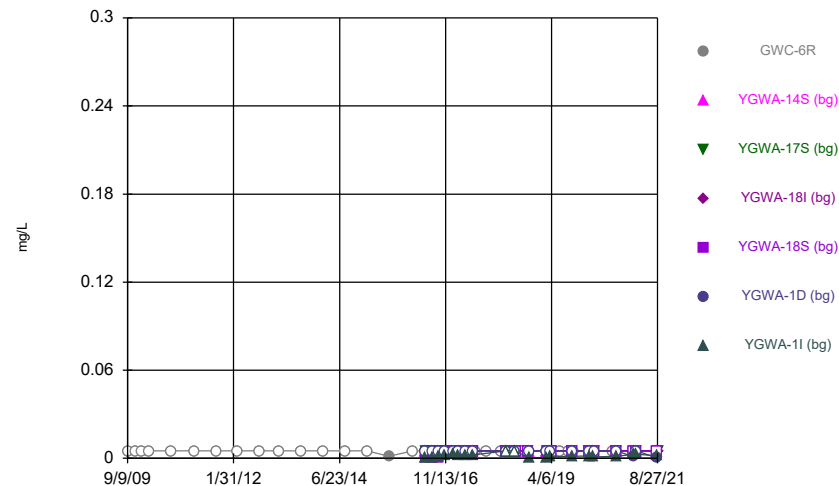
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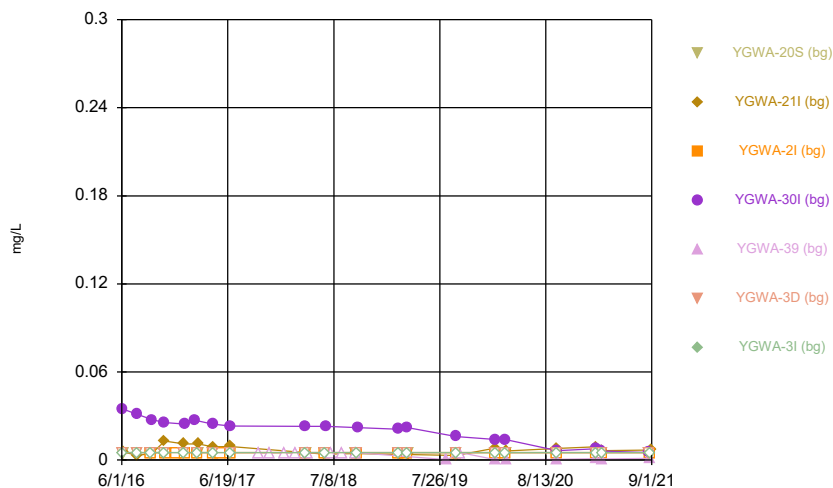
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Time Series



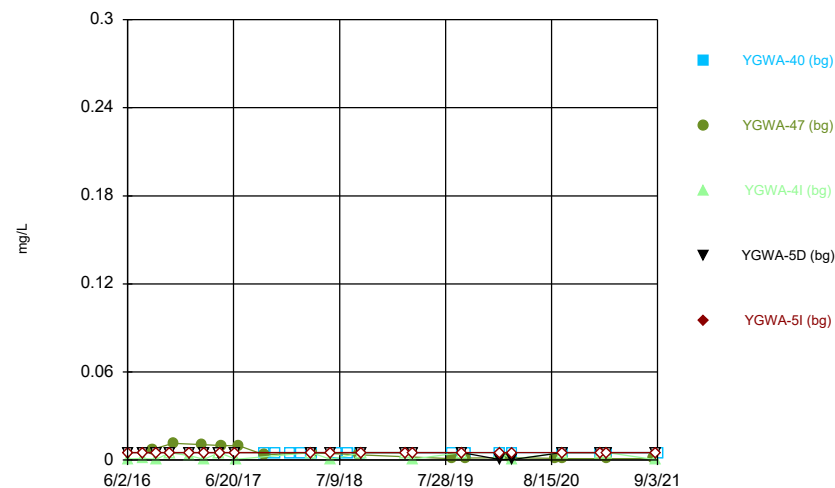
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Time Series



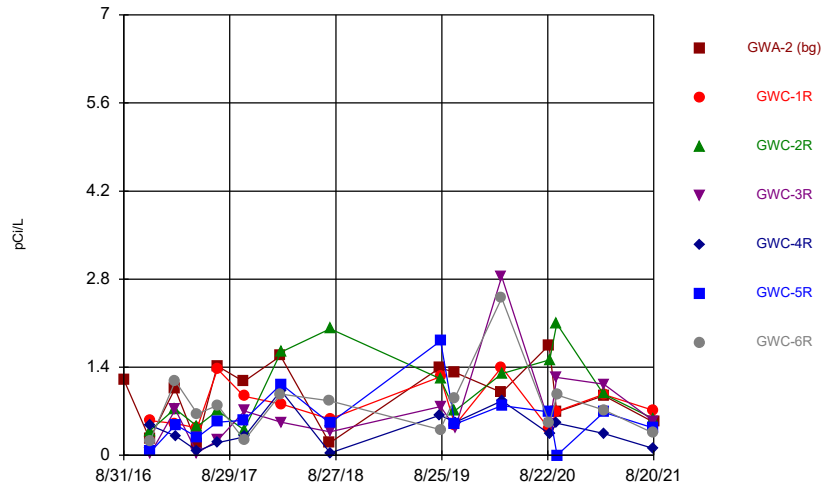
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Time Series



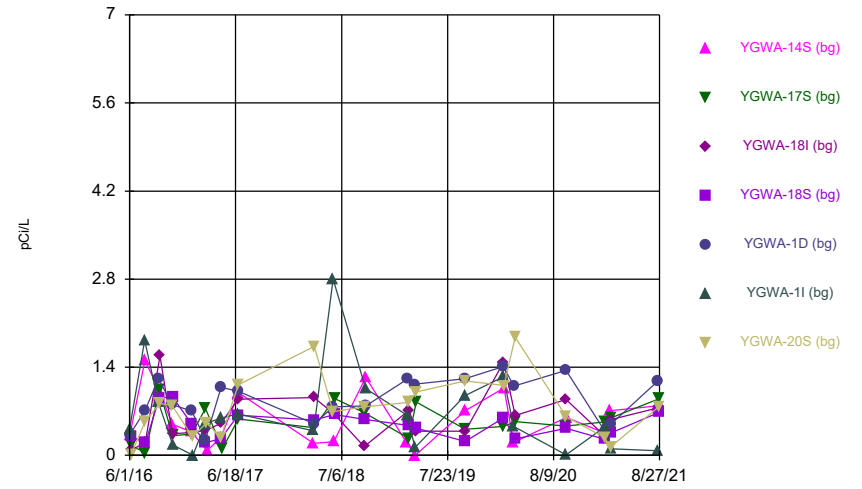
Constituent: Cobalt Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



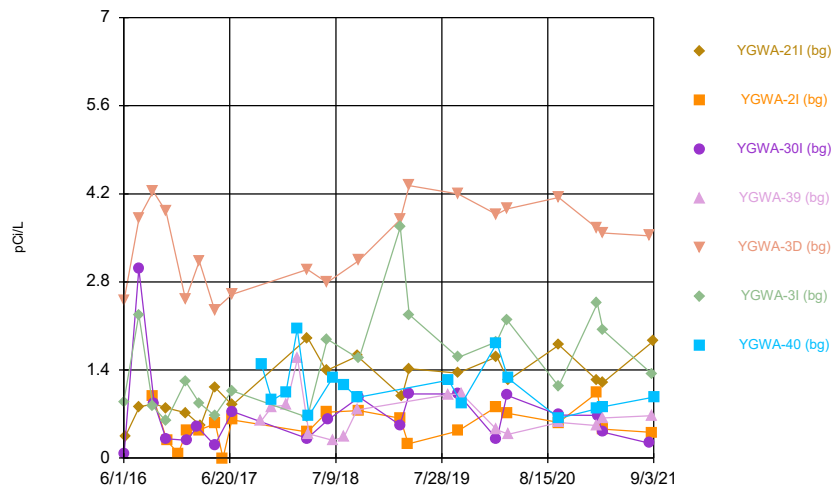
Constituent: Combined Radium 226 + 228 Analysis Run 10/29/2021 3:27 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



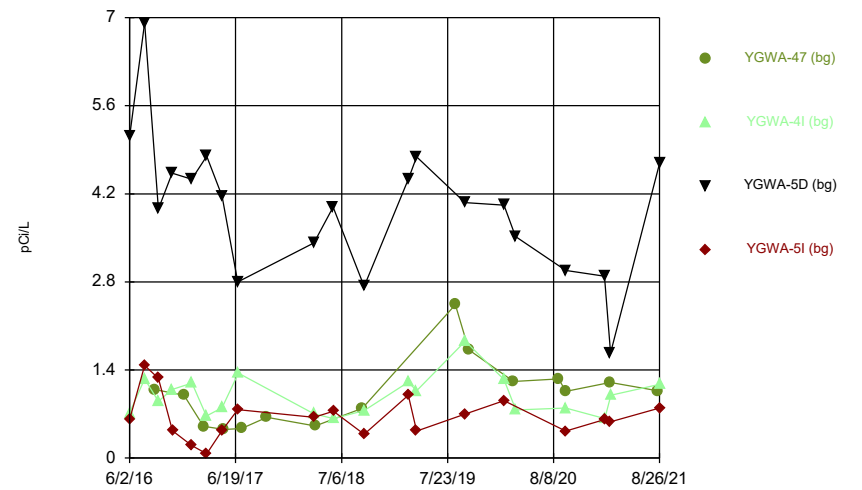
Constituent: Combined Radium 226 + 228 Analysis Run 10/29/2021 3:27 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



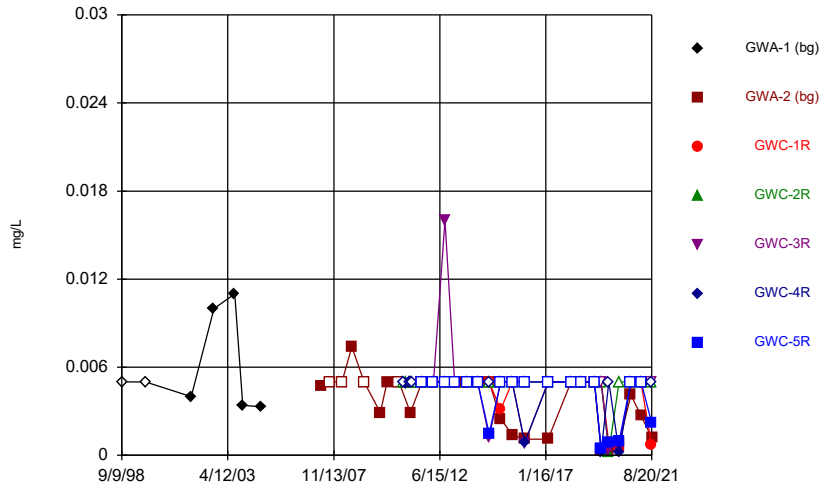
Constituent: Combined Radium 226 + 228 Analysis Run 10/29/2021 3:27 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



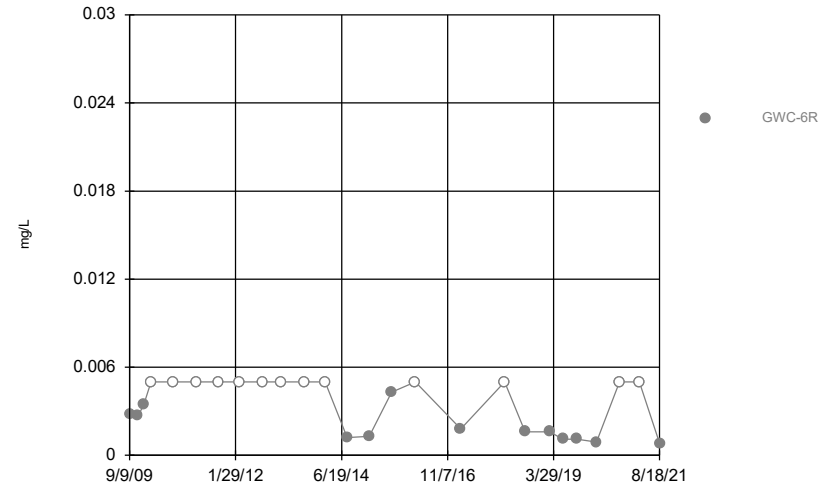
Constituent: Combined Radium 226 + 228 Analysis Run 10/29/2021 3:27 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



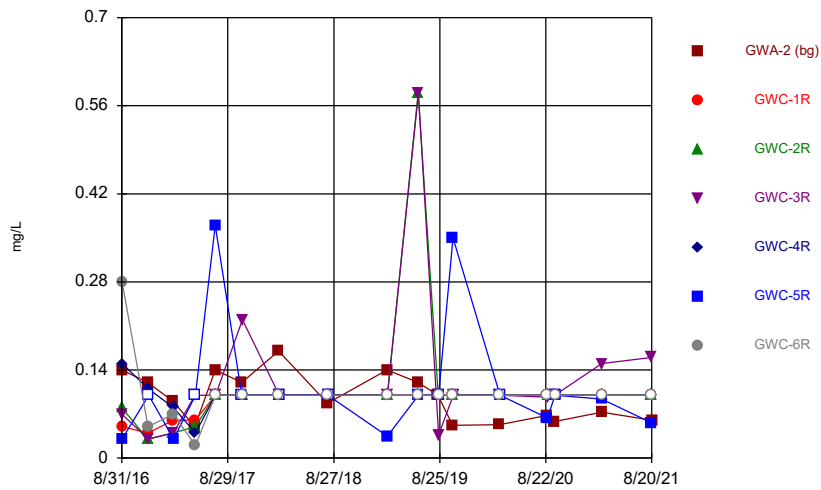
Constituent: Copper Analysis Run 10/29/2021 3:27 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



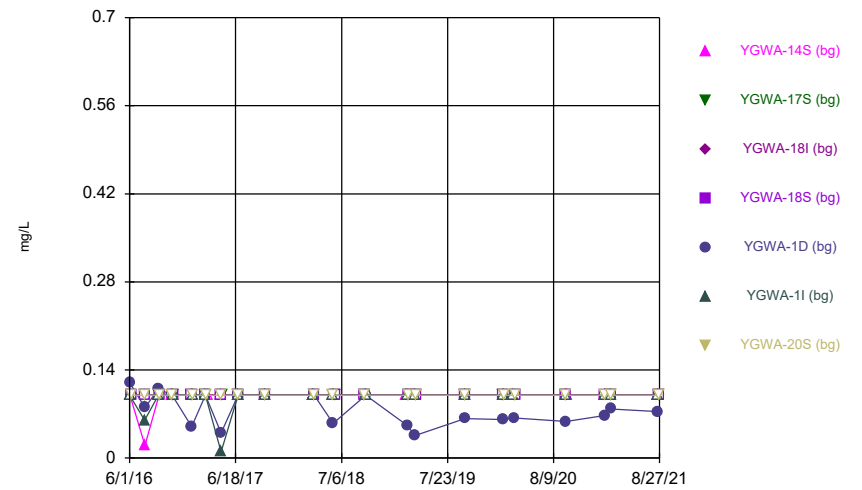
Constituent: Copper Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



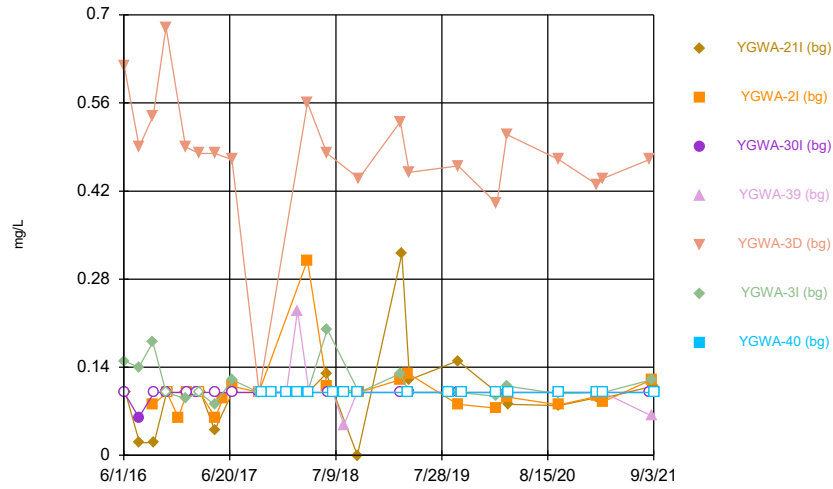
Constituent: Fluoride Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



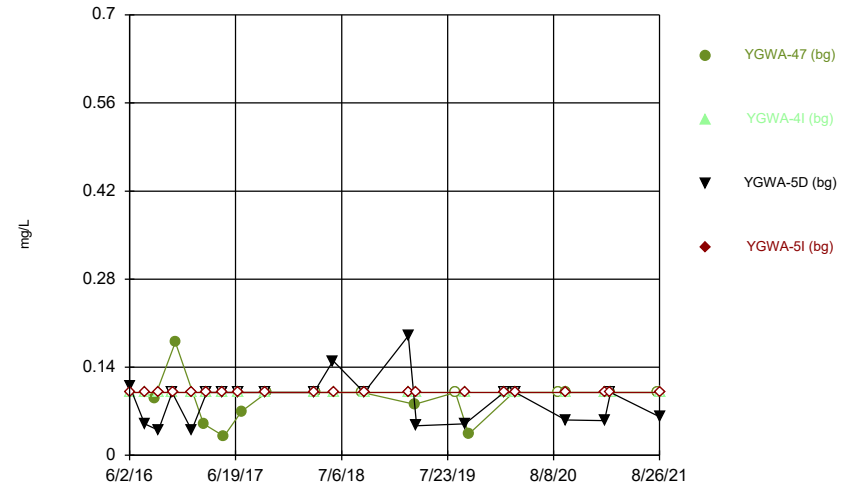
Constituent: Fluoride Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



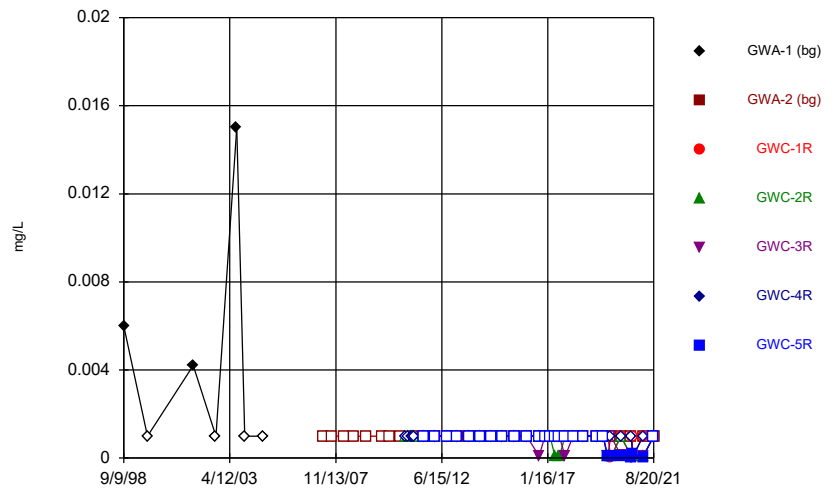
Constituent: Fluoride Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



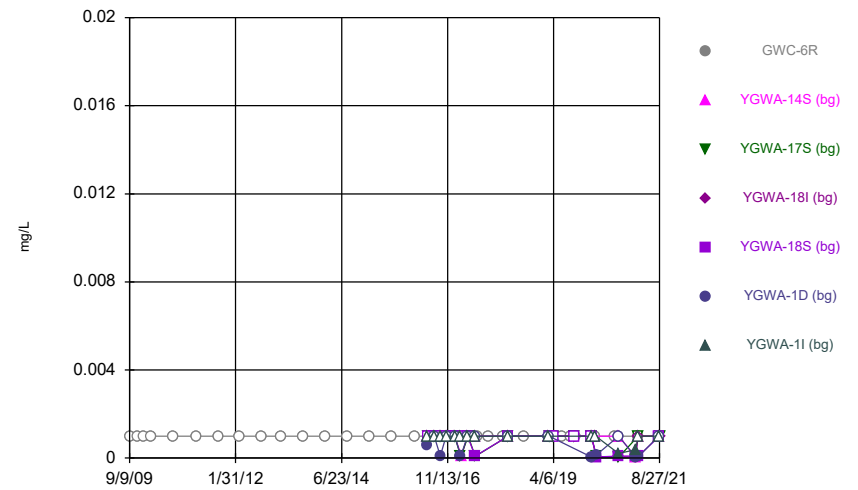
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



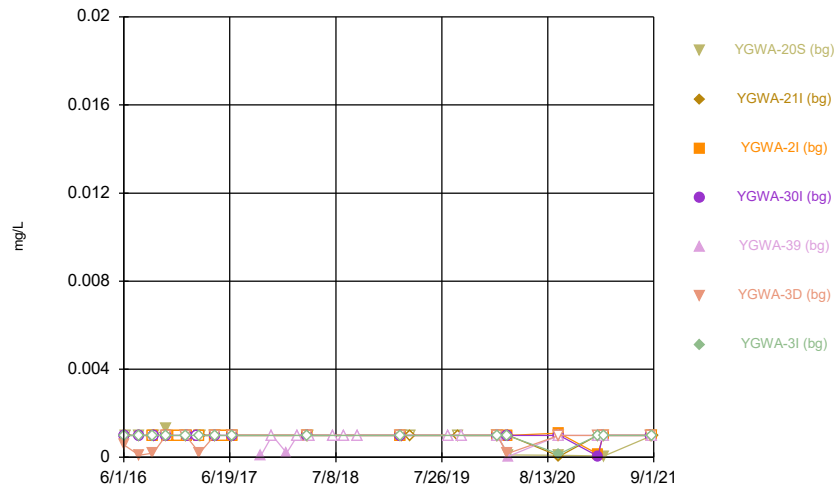
Constituent: Lead Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



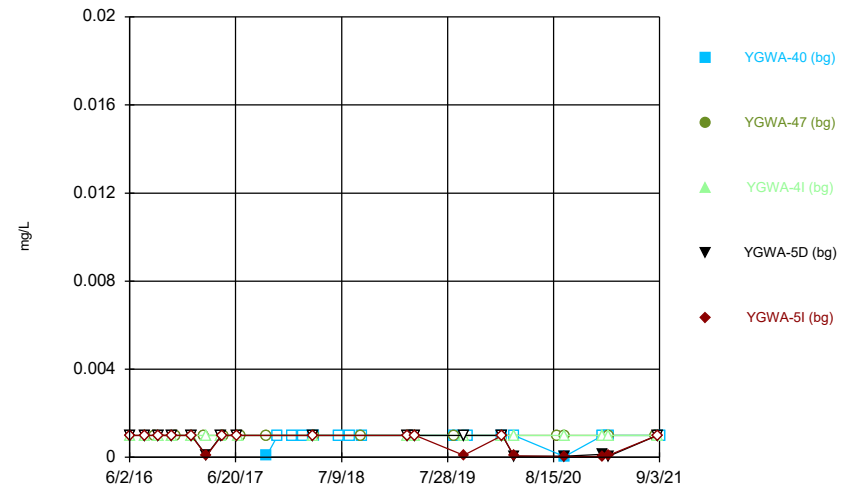
Constituent: Lead Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



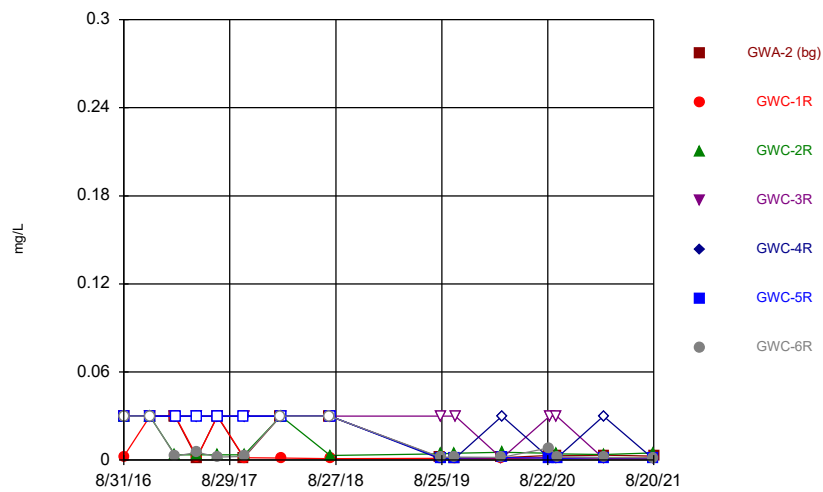
Constituent: Lead Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



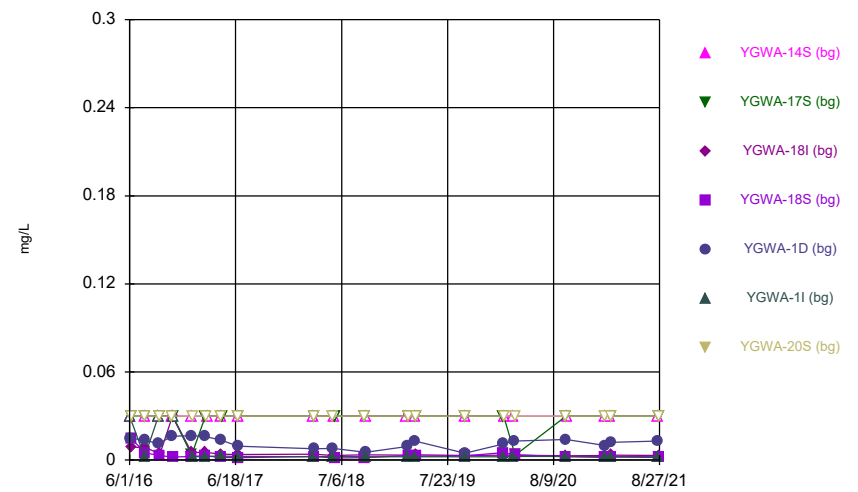
Constituent: Lead Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



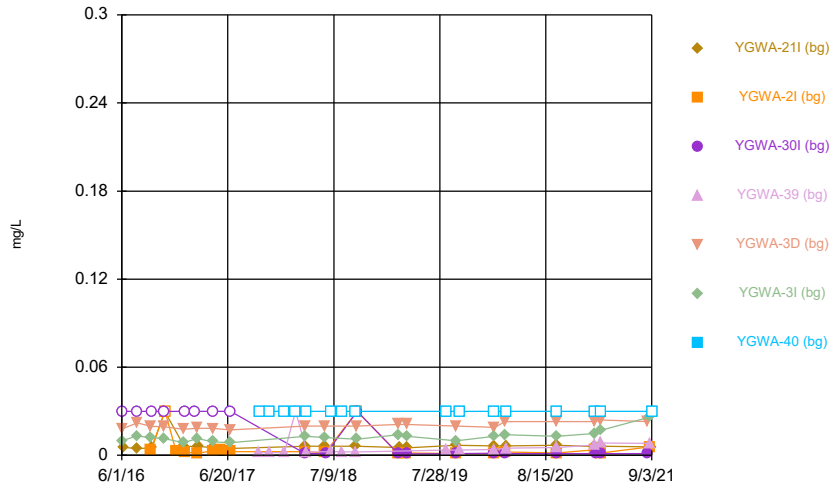
Constituent: Lithium Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



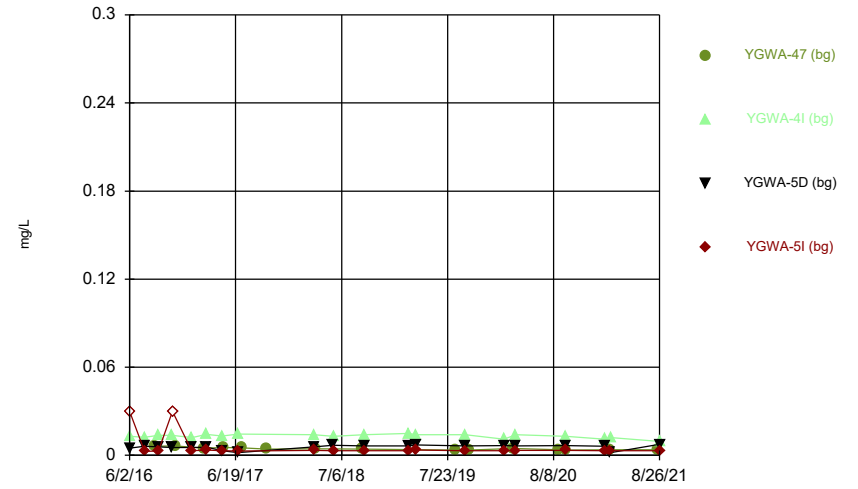
Constituent: Lithium Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



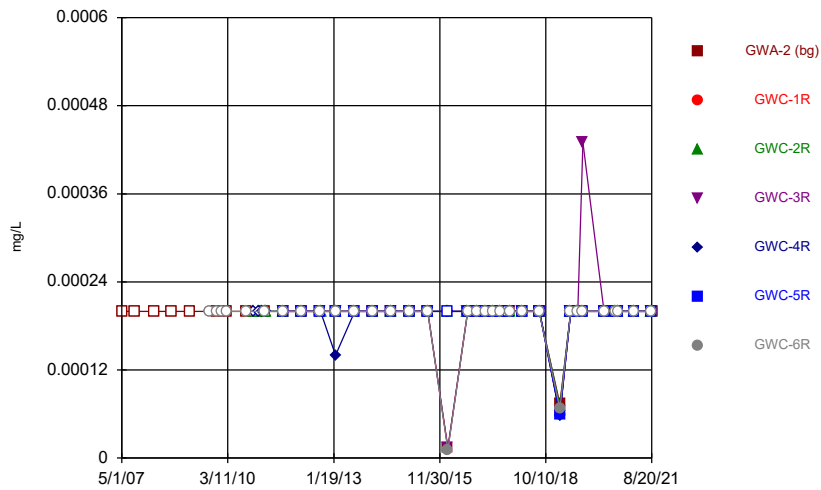
Constituent: Lithium Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



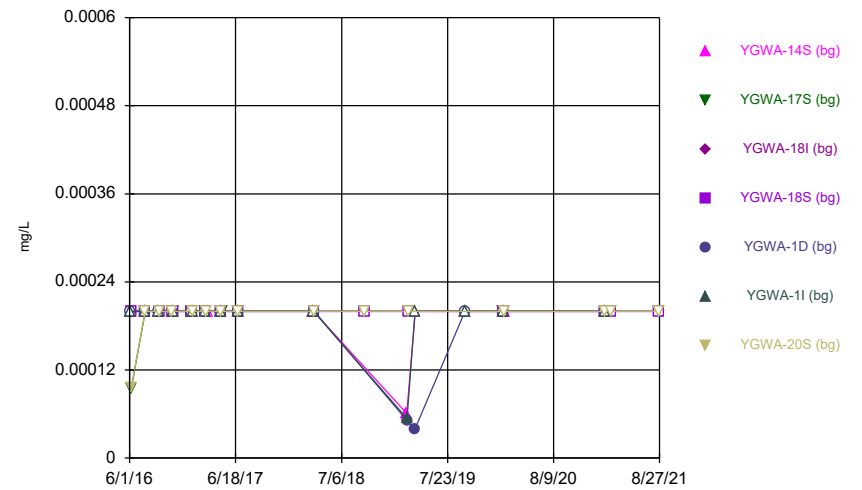
Constituent: Lithium Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



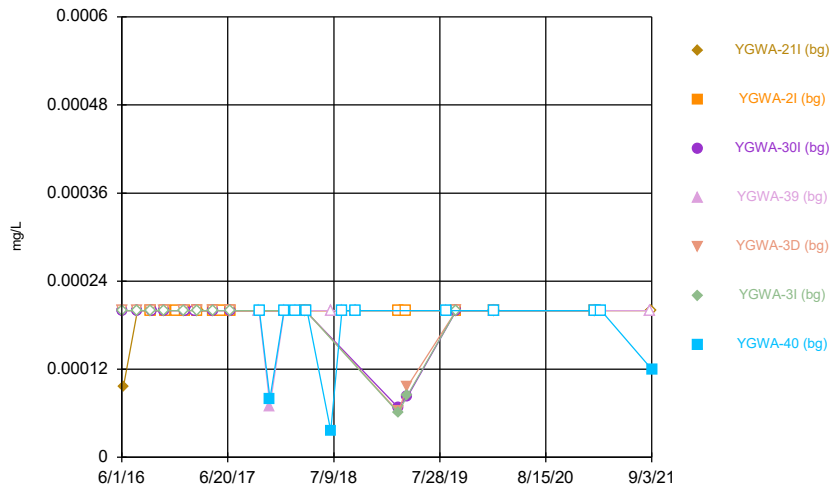
Constituent: Mercury Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



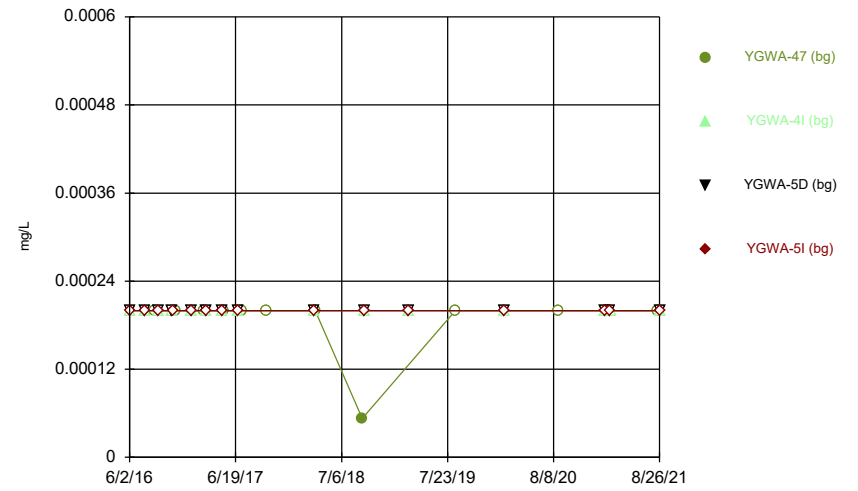
Constituent: Mercury Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



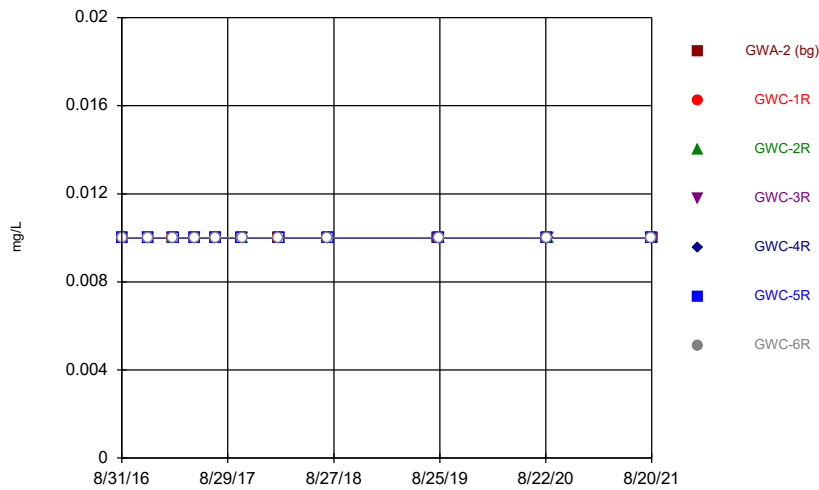
Constituent: Mercury Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



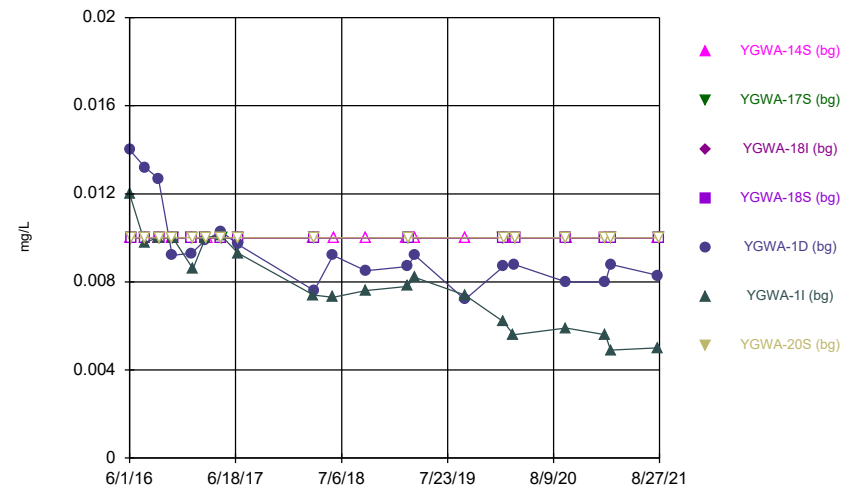
Constituent: Mercury Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



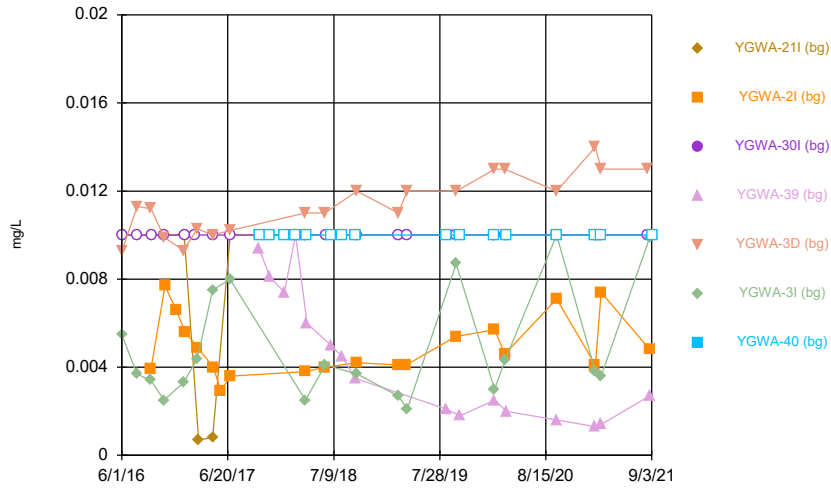
Constituent: Molybdenum Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



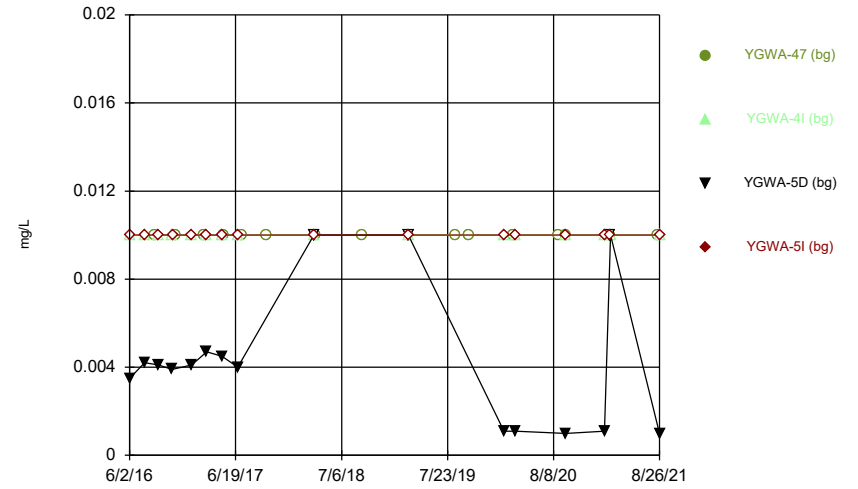
Constituent: Molybdenum Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



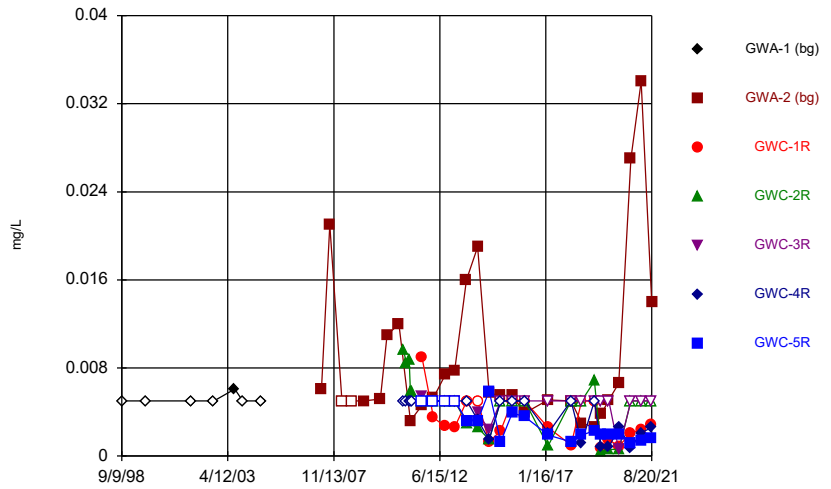
Constituent: Molybdenum Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



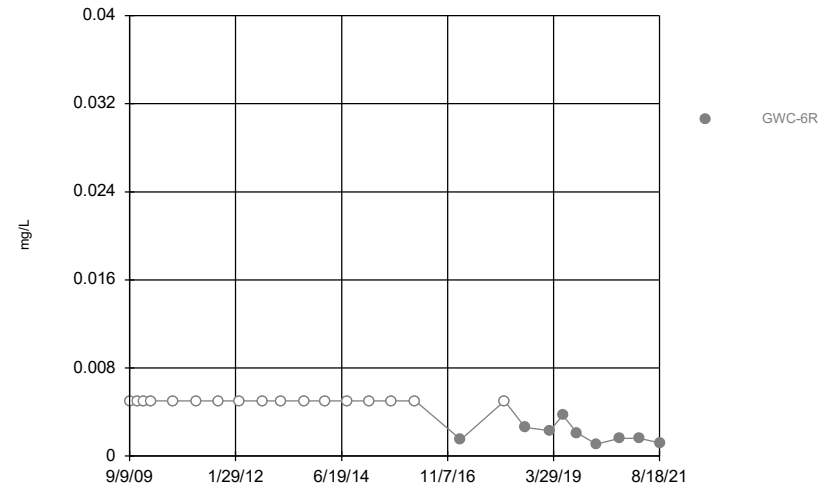
Constituent: Molybdenum Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



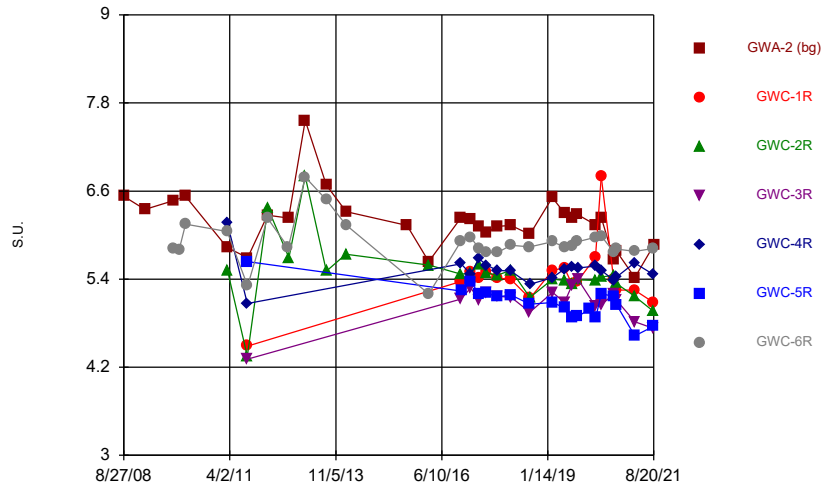
Constituent: Nickel Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



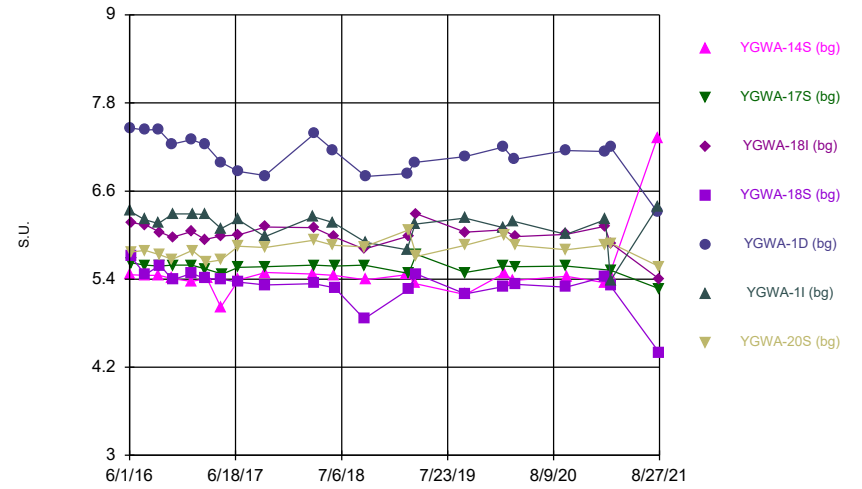
Constituent: Nickel Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



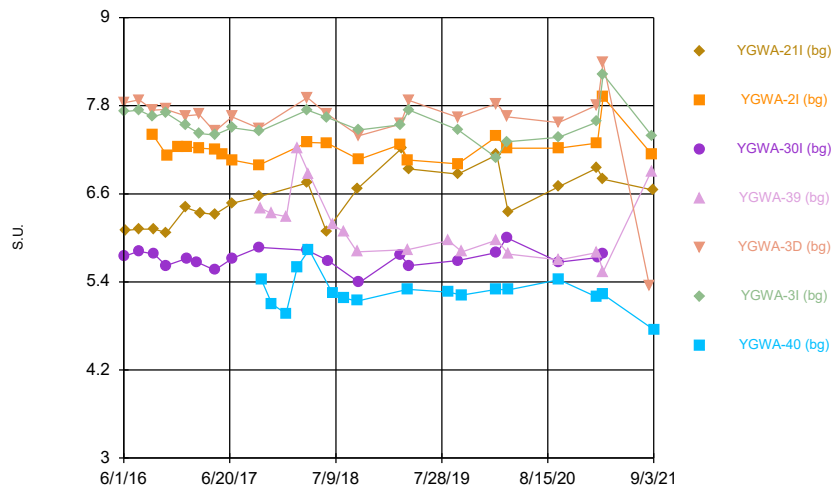
Constituent: pH Analysis Run 10/29/2021 3:28 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



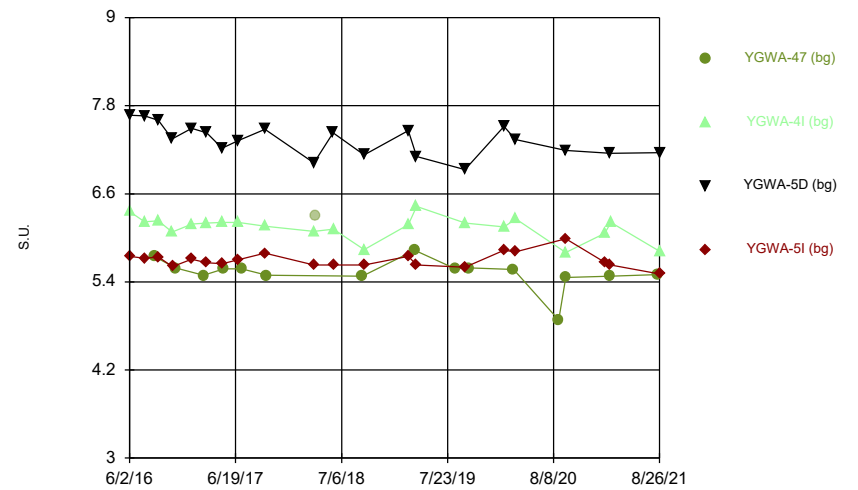
Constituent: pH Analysis Run 10/29/2021 3:28 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



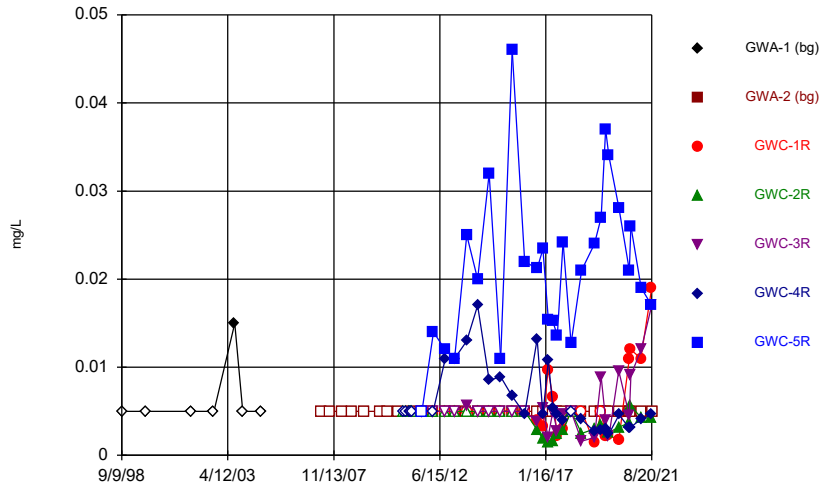
Constituent: pH Analysis Run 10/29/2021 3:28 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



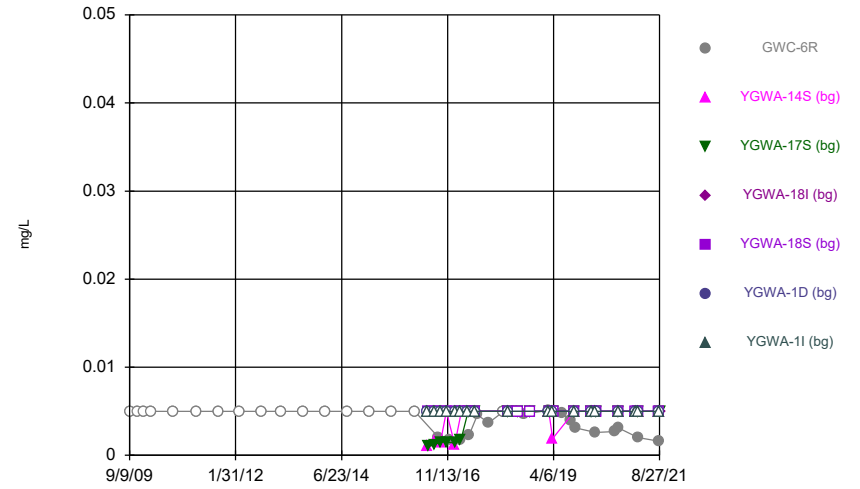
Constituent: pH Analysis Run 10/29/2021 3:28 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



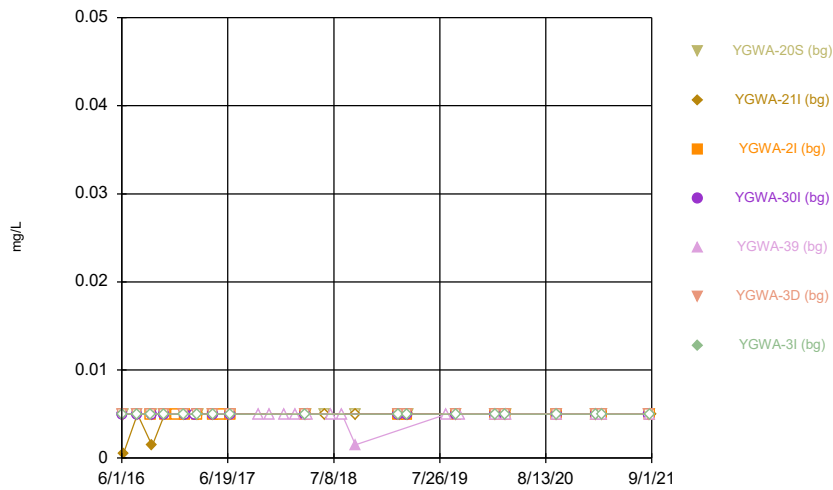
Constituent: Selenium Analysis Run 10/29/2021 3:28 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



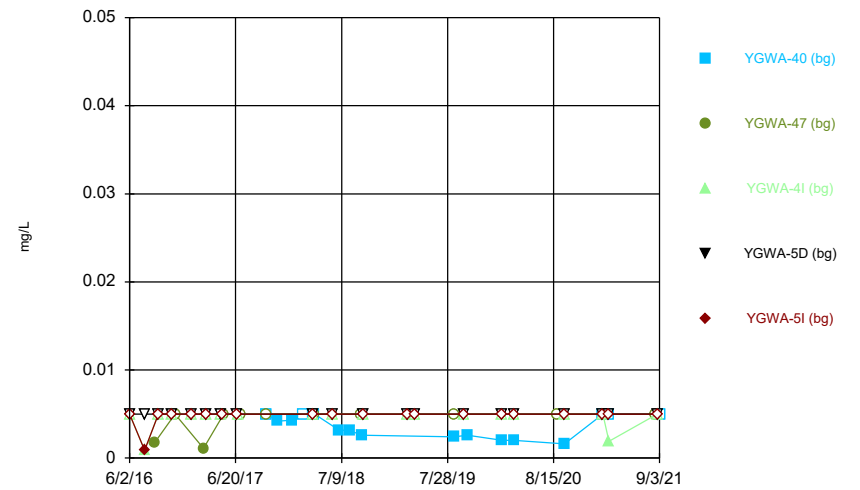
Constituent: Selenium Analysis Run 10/29/2021 3:28 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



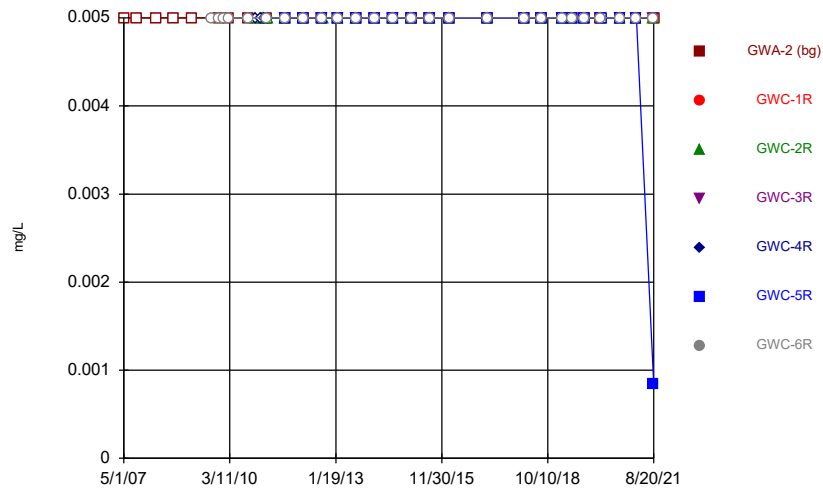
Constituent: Selenium Analysis Run 10/29/2021 3:28 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



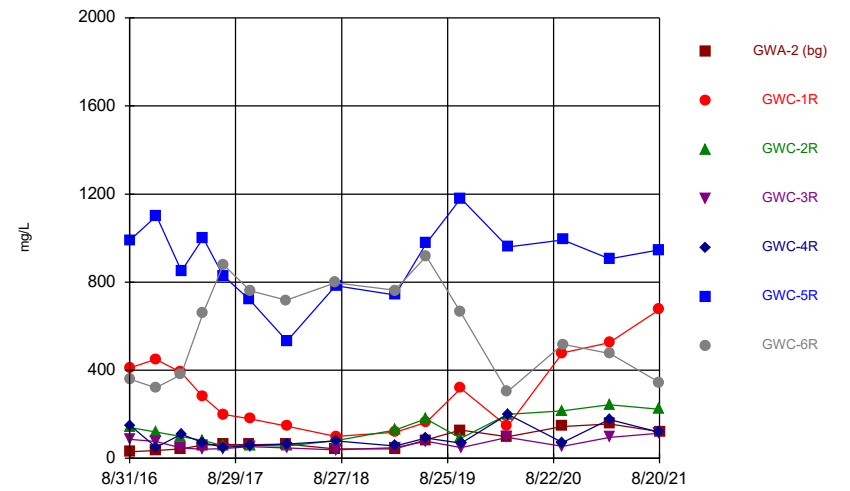
Constituent: Selenium Analysis Run 10/29/2021 3:28 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



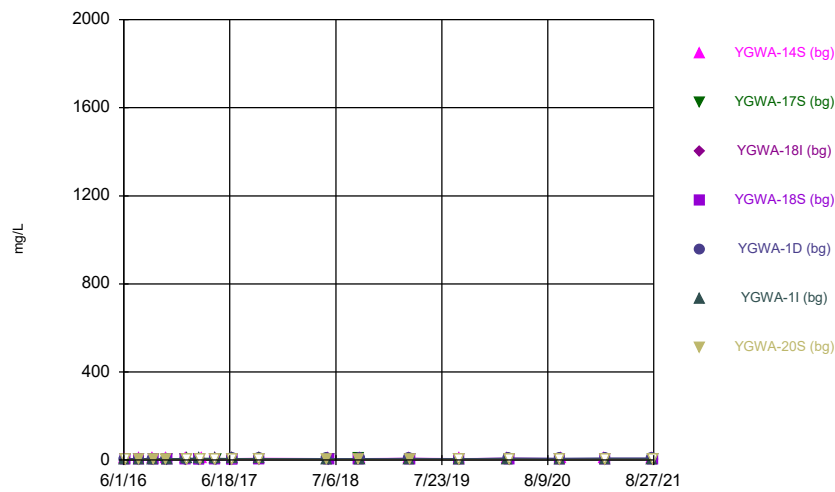
Constituent: Silver Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



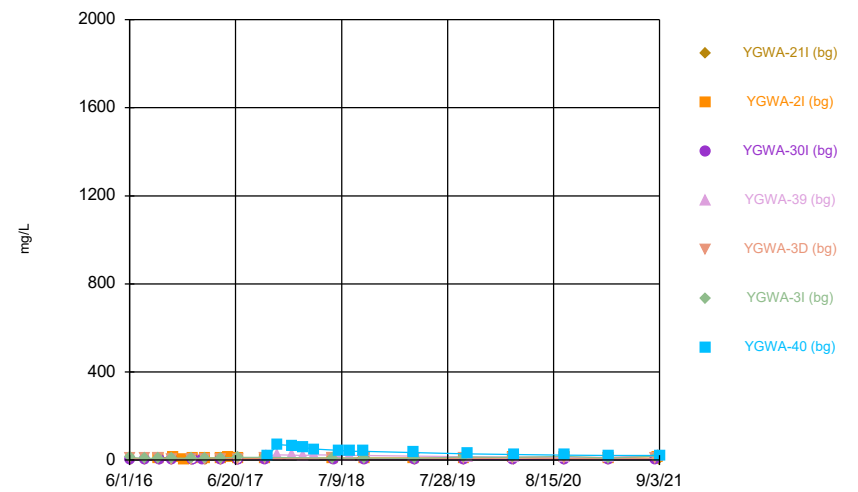
Constituent: Sulfate Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



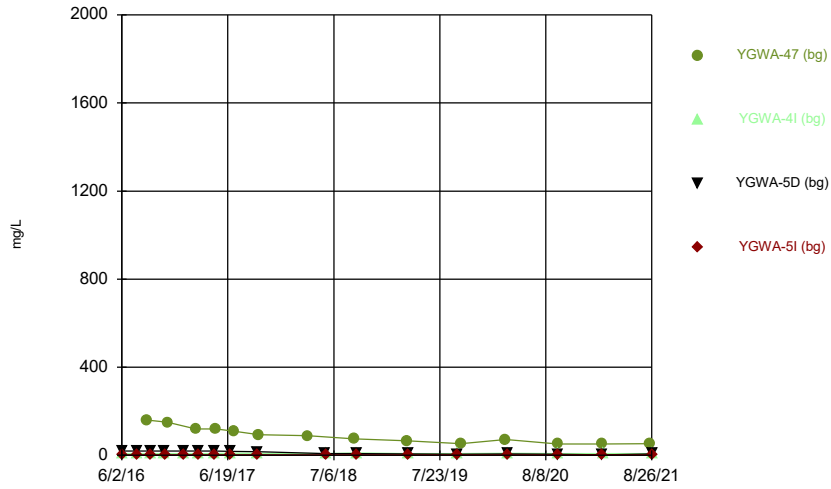
Constituent: Sulfate Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



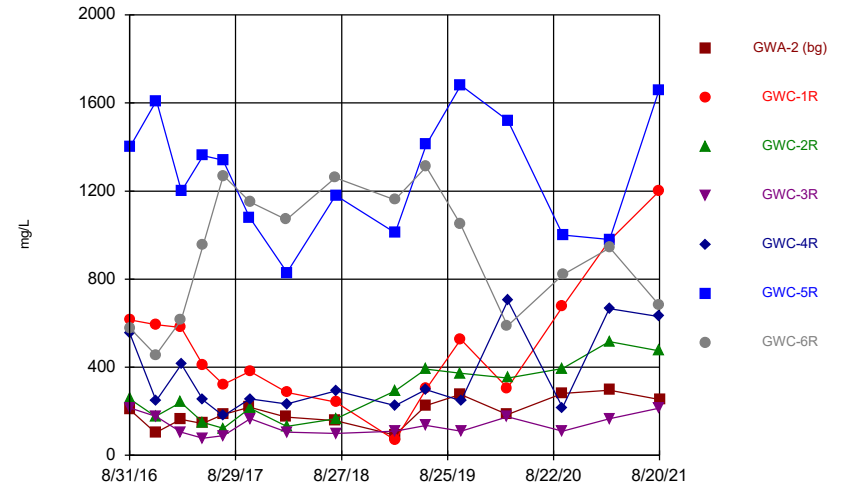
Constituent: Sulfate Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



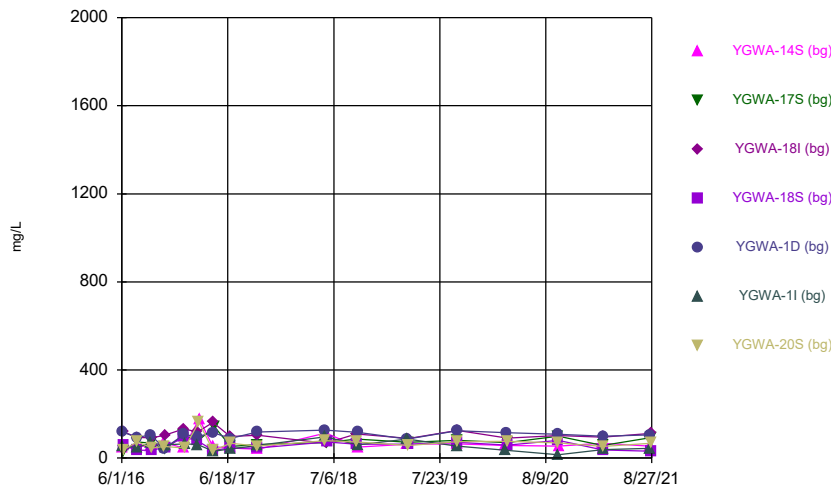
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



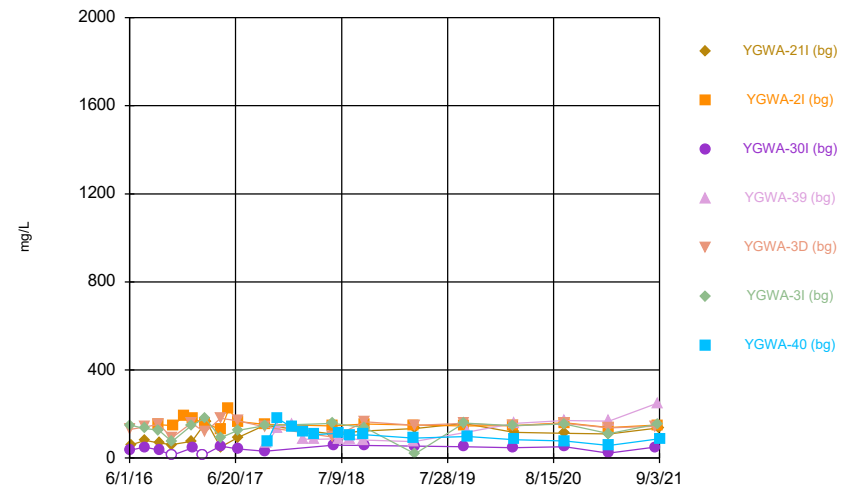
Constituent: TDS Analysis Run 10/29/2021 3:28 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



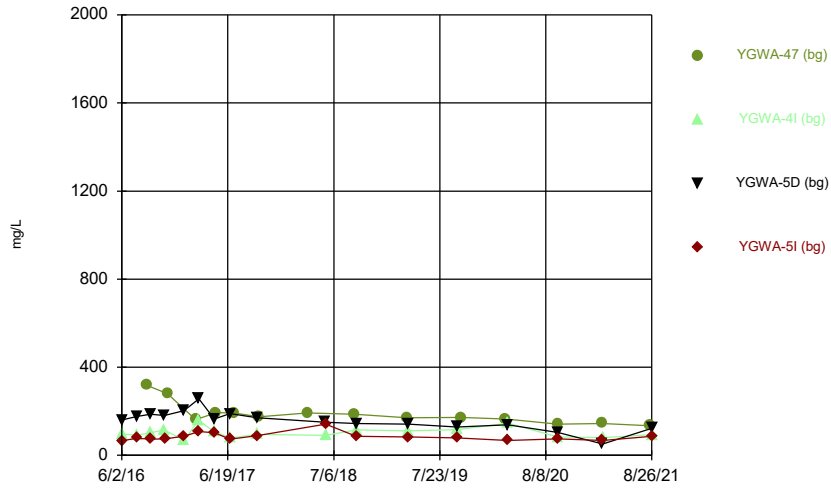
Constituent: TDS Analysis Run 10/29/2021 3:28 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



Constituent: TDS Analysis Run 10/29/2021 3:28 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

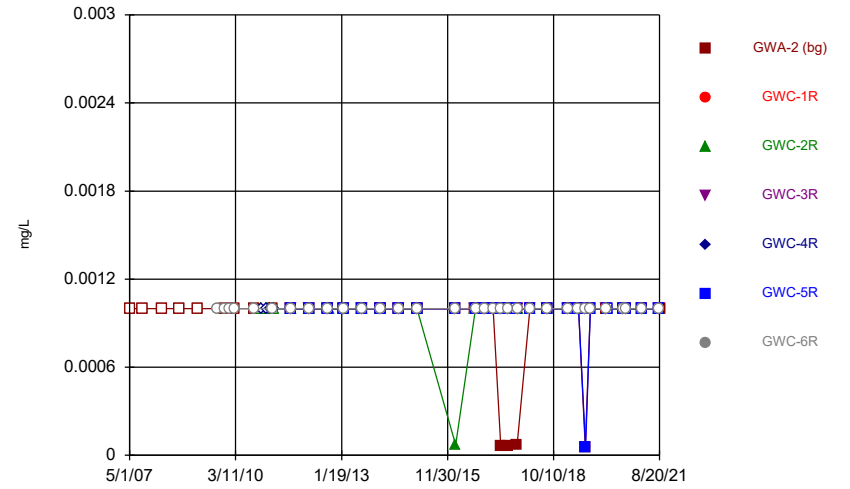
Time Series



Constituent: TDS Analysis Run 10/29/2021 3:28 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Hollow symbols indicate censored values.

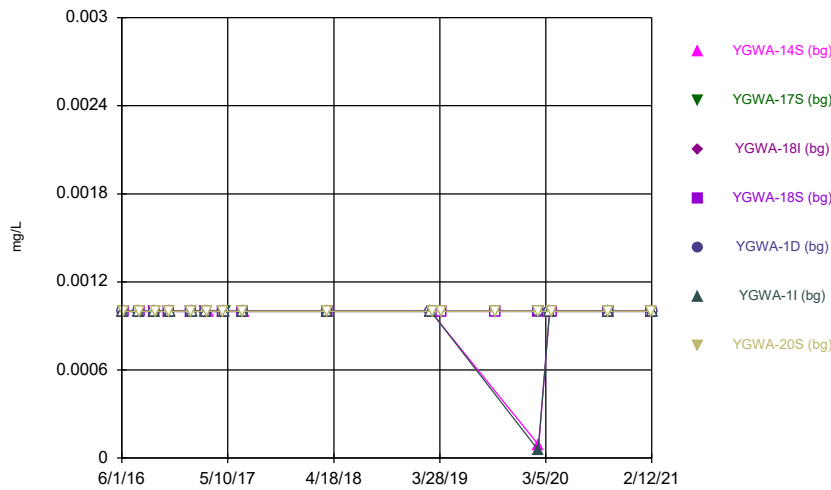
Time Series



Constituent: Thallium Analysis Run 10/29/2021 3:28 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Hollow symbols indicate censored values.

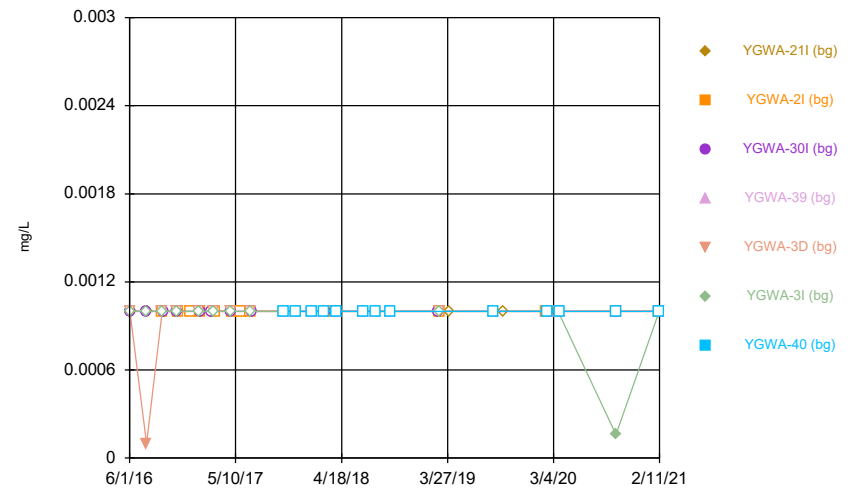
Time Series



Constituent: Thallium Analysis Run 10/29/2021 3:28 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

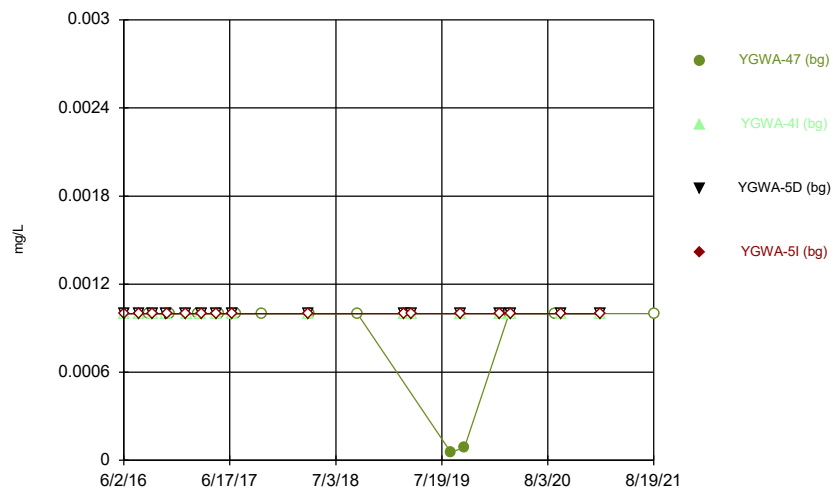
Hollow symbols indicate censored values.

Time Series



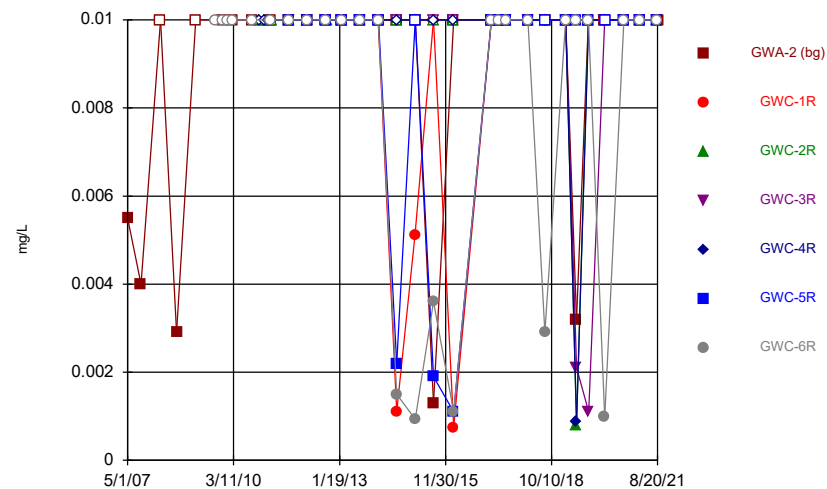
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



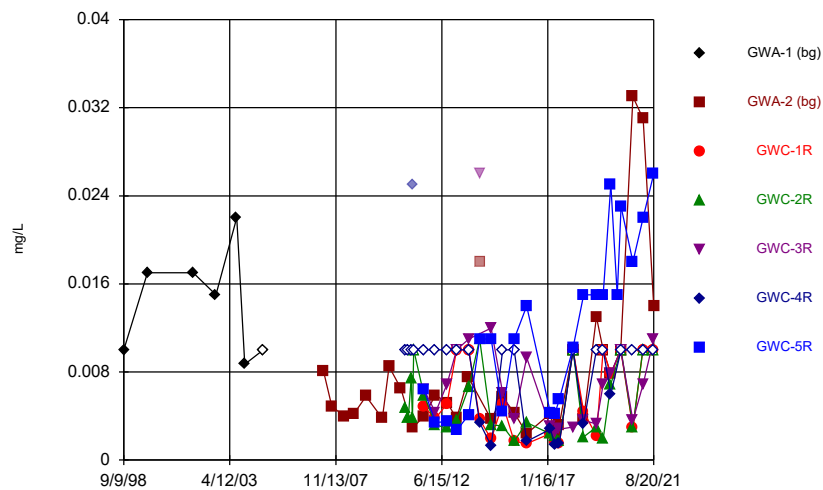
Constituent: Thallium Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



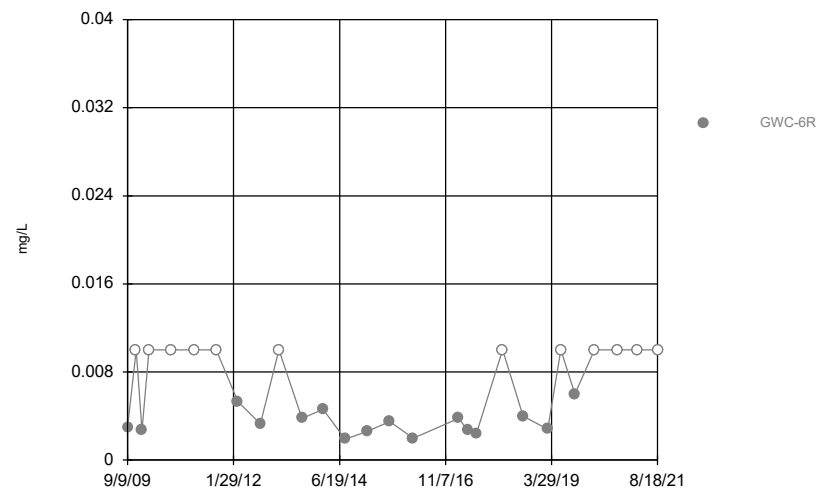
Constituent: Vanadium Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



Constituent: Zinc Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



Constituent: Zinc Analysis Run 10/29/2021 3:28 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (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								
9/9/2009							<0.003		
11/18/2009	<0.003						<0.003		
1/5/2010							<0.003		
3/3/2010	<0.003						<0.003		
9/7/2010							<0.003		
9/8/2010	<0.003								
11/22/2010			<0.003		<0.003				
1/4/2011			<0.003		<0.003				
2/17/2011			<0.003		<0.003				
3/10/2011	<0.003						<0.003		
3/11/2011			<0.003		<0.003				
3/28/2011			<0.003		<0.003				
9/7/2011			<0.003	<0.003	<0.003	<0.003			
9/8/2011	<0.003	<0.003					<0.003		
3/4/2012					<0.003				
3/5/2012	<0.003	<0.003		<0.003		<0.003	<0.003		
3/6/2012			<0.003						
9/5/2012		<0.003		<0.003		<0.003	<0.003		
9/10/2012	<0.003				<0.003				
9/11/2012			<0.003						
2/5/2013		<0.003				<0.003	<0.003		
2/6/2013	<0.003		<0.003	<0.003	<0.003				
8/12/2013	<0.003								
8/13/2013		<0.003	<0.003	<0.003				<0.003	
8/14/2013					<0.003	<0.003			
2/4/2014		<0.003	<0.003		<0.003		<0.003		
2/5/2014	<0.003			<0.003		<0.003			
8/4/2014				<0.003	<0.003	<0.003			
8/5/2014	<0.003	<0.003	<0.003				<0.003		
2/2/2015		<0.003	<0.003		<0.003				
2/3/2015				<0.003		<0.003	<0.003		
2/4/2015	<0.003								
8/3/2015	<0.003			<0.003 (D)	<0.003 (D)	<0.003 (D)			
8/4/2015		<0.003 (D)	<0.003				<0.003		
2/16/2016	<0.003	<0.003		<0.003	<0.003	<0.003	<0.003		
2/17/2016			<0.003						
6/2/2016							<0.003		
6/7/2016									<0.003
7/26/2016							0.0005 (J)		
7/27/2016									<0.003
8/31/2016	<0.003	<0.003	<0.003	<0.003					
9/1/2016					0.0014 (J)	<0.003	<0.003		
9/15/2016							<0.003		
9/16/2016									<0.003
11/2/2016							<0.003		
11/3/2016									<0.003
11/28/2016	0.0014 (J)		<0.003						

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
11/29/2016		<0.003					<0.003		
11/30/2016				<0.003	<0.003				
12/1/2016						<0.003			
1/10/2017								<0.003	
1/11/2017									<0.003
2/22/2017	<0.003		<0.003						
2/23/2017		<0.003		<0.003			<0.003		
2/24/2017					<0.003	<0.003			
3/2/2017									<0.003
3/8/2017								<0.003	
4/26/2017								<0.003	
5/2/2017									<0.003
5/8/2017	<0.003								
5/9/2017		<0.003		<0.003					
5/10/2017			<0.003		<0.003	<0.003	<0.003		
6/29/2017									<0.003
6/30/2017								<0.003	
7/17/2017	<0.003					<0.003			
7/18/2017		<0.003	<0.003	<0.003	<0.003		<0.003		
10/16/2017	<0.003					<0.003			
10/17/2017		<0.003	<0.003		<0.003				
10/18/2017				<0.003			<0.003		
2/19/2018	<0.003						<0.003		
2/20/2018			<0.003		<0.003				
2/21/2018		<0.003		<0.003		<0.003			
3/27/2018								<0.003	
3/28/2018									<0.003
8/6/2018	<0.003						<0.003		
8/7/2018		<0.003		<0.003		<0.003			
8/8/2018			<0.003		<0.003				
2/25/2019	<0.003						<0.003		
2/26/2019		<0.003	<0.003	<0.003	<0.003	<0.003		<0.003	
3/5/2019									<0.003
4/2/2019									<0.003
6/12/2019	<0.003		<0.003		0.00028 (J)				
6/13/2019		<0.003		<0.003		<0.003	<0.003		
8/19/2019	<0.003				<0.003				
8/20/2019		<0.003	<0.003				<0.003		
8/21/2019				<0.003		0.00054 (J)			
9/25/2019									<0.003
10/8/2019	<0.003						<0.003		
10/9/2019		<0.003	<0.003			<0.003			
10/10/2019				<0.003	<0.003				
2/11/2020									<0.003
2/12/2020								<0.003	
3/17/2020	<0.003	<0.003		<0.003			<0.003		
3/18/2020			<0.003		<0.003	<0.003		<0.003	
3/24/2020									<0.003
8/26/2020	0.00042 (J)								
8/27/2020		<0.003				<0.003	<0.003		
8/28/2020			<0.003	<0.003	<0.003				
9/22/2020	0.00044 (J)	<0.003	0.0017 (J)	<0.003	0.00053 (J)				

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
6/1/2016			<0.003	<0.003					
6/2/2016								<0.003	
6/6/2016	<0.003	<0.003							
6/7/2016					<0.003	<0.003			
7/25/2016				<0.003				<0.003	
7/26/2016			0.001 (J)						
7/27/2016	0.0005 (J)	<0.003			<0.003				
7/28/2016						<0.003			
9/13/2016			0.001 (J)	<0.003					
9/14/2016							<0.003		
9/16/2016		<0.003							
9/19/2016	<0.003				<0.003	0.001 (J)		<0.003	
11/1/2016			0.0015 (J)					<0.003	
11/2/2016					<0.003				
11/3/2016	<0.003	<0.003				<0.003			
11/4/2016				<0.003			<0.003		
12/15/2016							0.0012 (J)		
1/11/2017	<0.003	<0.003	<0.003						
1/13/2017					<0.003	<0.003			
1/16/2017				<0.003			<0.003	<0.003	
2/21/2017								<0.003	
3/1/2017	<0.003	<0.003							
3/2/2017			0.0004 (J)	<0.003					
3/3/2017							<0.003		
3/6/2017					<0.003	0.0005 (J)			
4/26/2017	<0.003	<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		
6/29/2017					<0.003	<0.003			
6/30/2017								<0.003	
10/11/2017									0.0006 (J)
11/20/2017									<0.003
1/11/2018									<0.003
2/20/2018									<0.003
3/27/2018				<0.003				<0.003	
3/28/2018	<0.003	<0.003					<0.003		
3/29/2018			<0.003		<0.003	<0.003			
4/3/2018									<0.003
6/28/2018									<0.003
8/7/2018									<0.003
9/24/2018									<0.003
2/26/2019								<0.003	
2/27/2019			<0.003	<0.003			<0.003		
3/5/2019		<0.003			<0.003	0.0011 (J)			
3/6/2019	<0.003								
4/2/2019						0.0011 (J)			
4/3/2019	<0.003	<0.003			<0.003				
8/21/2019									<0.003
9/24/2019						0.0035			

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
9/25/2019					<0.003				
9/26/2019	0.00056 (J)	<0.003							
2/10/2020			0.00088 (J)	<0.003					
2/11/2020	<0.003	<0.003					0.00036 (J)		
2/12/2020					<0.003	0.0015 (J)		<0.003	<0.003
3/18/2020				0.0004 (J)					
3/19/2020			<0.003				0.0003 (J)	<0.003	
3/24/2020	<0.003	<0.003			<0.003	0.0017 (J)			
3/25/2020									0.0014 (J)
9/23/2020	<0.003	<0.003	<0.003	<0.003			<0.003		
9/24/2020					<0.003	0.0047		<0.003	<0.003
2/9/2021	<0.003	<0.003			0.00032 (J)	0.0013 (J)			
2/10/2021							0.0013 (J)		<0.003
2/11/2021								<0.003	
2/12/2021			<0.003	<0.003					
3/1/2021								<0.003	
3/3/2021	<0.003	0.00067 (J)	<0.003	<0.003	<0.003		<0.003		
3/4/2021						0.0014 (J)			<0.003
8/19/2021			<0.003	<0.003				<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 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		<0.003					
6/2/2016	<0.003				<0.003	<0.003	<0.003
7/25/2016		<0.003					
7/26/2016	0.002 (J)				0.0003 (J)	<0.003	<0.003
8/30/2016				0.0028 (J)			
9/14/2016		<0.003			<0.003	<0.003	<0.003
9/15/2016	0.0027 (J)						
11/1/2016	<0.003	<0.003					
11/2/2016					<0.003	<0.003	
11/4/2016							<0.003
11/14/2016				<0.003			
1/11/2017	<0.003	<0.003					
1/12/2017						<0.003	<0.003
1/13/2017					<0.003		
2/24/2017				<0.003			
3/1/2017		<0.003					
3/2/2017	0.0008 (J)						
3/6/2017					<0.003		
3/7/2017						<0.003	<0.003
4/26/2017	<0.003	<0.003					
5/1/2017					<0.003	<0.003	
5/2/2017							<0.003
5/8/2017				0.0004 (J)			
6/27/2017						<0.003	<0.003
6/28/2017	<0.003	<0.003					
6/29/2017					<0.003		
7/11/2017				0.0006 (J)			
10/10/2017				<0.003			
10/12/2017			<0.003				
11/20/2017			<0.003				
1/10/2018			<0.003				
2/19/2018			<0.003				
3/28/2018	<0.003	<0.003					
3/29/2018					<0.003	<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				
2/27/2019	<0.003	<0.003					
3/4/2019					<0.003	<0.003	<0.003
4/3/2019					<0.003	<0.003	<0.003
8/20/2019				<0.003			
8/21/2019			<0.003				
9/24/2019						<0.003	<0.003
9/25/2019					<0.003		
2/11/2020		<0.003					
2/12/2020	<0.003		<0.003		<0.003	<0.003	<0.003
3/19/2020	0.00064 (J)	<0.003					
3/24/2020			<0.003			<0.003	<0.003
3/25/2020					<0.003		

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
8/27/2020				0.00048 (J)			
9/22/2020				<0.003	<0.003	<0.003	<0.003
9/23/2020	<0.003	<0.003					
9/24/2020			<0.003				
2/8/2021						<0.003	<0.003
2/9/2021					<0.003		
2/10/2021	<0.003	<0.003	<0.003				
3/1/2021				0.00048 (J)			
3/2/2021						<0.003	<0.003
3/3/2021	<0.003	<0.003			<0.003		
3/4/2021			<0.003				
8/19/2021	<0.003			<0.003			
8/26/2021					<0.003	<0.003	<0.003
8/27/2021		<0.003					
9/3/2021			<0.003				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
9/9/1998	<0.005								
9/20/1999	<0.005								
9/12/2001	<0.005								
9/3/2002	<0.005								
7/29/2003	<0.005								
12/5/2003	<0.005								
9/22/2004	<0.005								
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							
9/9/2009								<0.005	
11/18/2009		<0.005						<0.005	
1/5/2010								<0.005	
3/3/2010		<0.005						<0.005	
9/7/2010								<0.005	
9/8/2010		<0.005							
11/22/2010				<0.005		<0.005			
1/4/2011				<0.005		<0.005			
2/17/2011				<0.005		<0.005			
3/10/2011		<0.005						<0.005	
3/11/2011				<0.005		<0.005			
3/28/2011				<0.005		<0.005			
9/7/2011				<0.005	<0.005	<0.005	<0.005		
9/8/2011	<0.005		<0.005					<0.005	
3/4/2012						<0.005			
3/5/2012	<0.005		<0.005		<0.005		<0.005	<0.005	
3/6/2012				<0.005					
9/5/2012			<0.005		<0.005		<0.005	<0.005	
9/10/2012	<0.005					<0.005			
9/11/2012				<0.005					
2/5/2013			<0.005				<0.005	<0.005	
2/6/2013	<0.005			<0.005	<0.005	<0.005			
8/12/2013	<0.005								
8/13/2013			<0.005	<0.005	<0.005			<0.005	
8/14/2013						<0.005	<0.005		
2/4/2014			<0.005	<0.005		<0.005		<0.005	
2/5/2014	<0.005				<0.005		<0.005		
8/4/2014					<0.005	<0.005	<0.005		
8/5/2014	<0.005		<0.005	<0.005				<0.005	
2/2/2015			<0.005	<0.005		<0.005			
2/3/2015					<0.005		<0.005	<0.005	
2/4/2015	<0.005								
8/3/2015	<0.005				<0.005 (D)	<0.005 (D)	<0.005 (D)		
8/4/2015			<0.005 (D)	<0.005				<0.005	
2/16/2016	<0.005		<0.005		<0.005	<0.005	<0.005	<0.005	
2/17/2016				<0.005					
6/2/2016									<0.005
7/26/2016									<0.005
8/31/2016	<0.005		<0.005	<0.005	<0.005				
9/1/2016						<0.005	<0.005	<0.005	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
3/1/2021			0.0022 (J)	0.0011 (J)		<0.005			
3/2/2021		<0.005			0.0017 (J)		0.0024 (J)		<0.005
3/3/2021								<0.005	
8/18/2021			0.0016 (J)	<0.005	0.0028 (J)	<0.005	0.0021 (J)	<0.005	
8/19/2021									<0.005
8/20/2021		<0.005							

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016				0.0021	<0.005				
6/2/2016									<0.005
6/6/2016		<0.005	<0.005						
6/7/2016	<0.005					<0.005	<0.005		
7/25/2016					<0.005				<0.005
7/26/2016				0.0016 (J)					
7/27/2016	<0.005	<0.005	<0.005			<0.005			
7/28/2016							<0.005		
9/13/2016				<0.005	<0.005				
9/14/2016								<0.005	
9/16/2016	<0.005		<0.005						
9/19/2016		<0.005				<0.005	<0.005		<0.005
11/1/2016				<0.005					<0.005
11/2/2016						<0.005			
11/3/2016	<0.005	<0.005	<0.005				<0.005		
11/4/2016					<0.005			0.0017 (J)	
12/15/2016								0.0023 (J)	
1/11/2017	<0.005	<0.005	<0.005	0.0017 (J)					
1/13/2017						<0.005	<0.005		
1/16/2017					<0.005			0.0018 (J)	<0.005
2/21/2017									<0.005
3/1/2017		<0.005	<0.005						
3/2/2017	<0.005			0.0014 (J)	<0.005				
3/3/2017								0.0016 (J)	
3/6/2017						<0.005	0.0017 (J)		
4/26/2017		<0.005	<0.005			<0.005	<0.005		<0.005
4/27/2017				0.0018 (J)	<0.005				
4/28/2017								0.002 (J)	
5/2/2017	<0.005								
5/26/2017								0.0005 (J)	
6/27/2017				0.0018 (J)	<0.005				
6/28/2017		<0.005	<0.005					0.0016 (J)	
6/29/2017	<0.005					<0.005	<0.005		
6/30/2017									<0.005
3/27/2018					<0.005				<0.005
3/28/2018	<0.005	<0.005	0.00061 (J)					0.0013 (J)	
3/29/2018				0.0017 (J)		<0.005	0.0015 (J)		
6/5/2018				0.0013 (J)			0.0013 (J)		
6/6/2018					<0.005	<0.005			
6/7/2018		0.00066 (J)						0.00082 (J)	
6/11/2018	<0.005		<0.005						<0.005
9/25/2018	<0.005	<0.005	<0.005			<0.005	0.0022 (J)		
10/1/2018				0.0016 (J)	<0.005			0.0011 (J)	
10/2/2018									<0.005
2/26/2019									<0.005
2/27/2019				0.0015 (J)	<0.005			0.001 (J)	
3/5/2019	<0.005		<0.005			<0.005	0.0013 (J)		
3/6/2019		<0.005							
3/28/2019				0.00072 (J)	<0.005				
3/29/2019								0.00063 (J)	
4/1/2019									<0.005
4/2/2019	<0.005						0.00096 (J)		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
4/3/2019		<0.005	<0.005			<0.005			
9/24/2019				0.0014 (J)	<0.005		0.0026 (J)	<0.005	
9/25/2019	<0.005					<0.005			<0.005
9/26/2019		<0.005	<0.005						
2/10/2020				0.0026 (J)	0.0005 (J)				
2/11/2020	0.0022 (J)	0.0014 (J)	0.0026 (J)					0.0044 (J)	
2/12/2020						<0.005	0.0025 (J)		0.0032 (J)
3/18/2020					<0.005				
3/19/2020				0.00095 (J)				0.00066 (J)	<0.005
3/24/2020	<0.005	<0.005	<0.005			<0.005	0.0013 (J)		
9/23/2020	<0.005	<0.005	<0.005	0.0011 (J)	<0.005			0.001 (J)	
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	
2/11/2021									<0.005
2/12/2021				<0.005	<0.005				
3/1/2021									<0.005
3/3/2021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		0.00098 (J)	
3/4/2021							0.00078 (J)		
8/19/2021				<0.005	<0.005				<0.005
8/26/2021			<0.005						
8/27/2021	<0.005	<0.005				<0.005		<0.005	
9/1/2021							<0.005		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016			<0.005					
6/2/2016		<0.005				<0.005	0.00071 (J)	<0.005
7/25/2016			<0.005					
7/26/2016		<0.005				<0.005	0.001 (J)	<0.005
8/30/2016					<0.005			
9/14/2016			<0.005			<0.005	<0.005	<0.005
9/15/2016		<0.005						
11/1/2016		<0.005	<0.005					
11/2/2016						<0.005	<0.005	
11/4/2016								<0.005
11/14/2016					<0.005			
1/11/2017		<0.005	<0.005					
1/12/2017							<0.005	<0.005
1/13/2017						<0.005		
2/24/2017					<0.005			
3/1/2017			0.0004 (J)					
3/2/2017		<0.005						
3/6/2017						<0.005		
3/7/2017							0.0012 (J)	<0.005
4/26/2017		<0.005	<0.005					
5/1/2017						<0.005	<0.005	
5/2/2017								<0.005
5/8/2017					<0.005			
6/27/2017							0.0019 (J)	<0.005
6/28/2017		0.0007 (J)	0.0011 (J)					
6/29/2017						<0.005		
7/11/2017					<0.005			
10/10/2017					0.0007 (J)			
10/11/2017	0.0009 (J)							
10/12/2017				<0.005				
11/20/2017	<0.005			<0.005				
1/10/2018				<0.005				
1/11/2018	<0.005							
2/19/2018				<0.005				
2/20/2018	<0.005							
3/28/2018		<0.005	<0.005					
3/29/2018						<0.005	0.0006 (J)	<0.005
4/2/2018					<0.005			
4/3/2018	<0.005			<0.005				
6/6/2018							0.0013 (J)	
6/7/2018		<0.005				0.00059 (J)		<0.005
6/8/2018			<0.005					
6/28/2018	<0.005			<0.005				
8/7/2018	<0.005			<0.005				
9/19/2018					0.00072 (J)			
9/24/2018	<0.005			<0.005				
9/26/2018						<0.005	0.0014 (J)	<0.005
10/1/2018		<0.005	<0.005					
2/27/2019		<0.005	<0.005					
3/4/2019						<0.005	<0.005	<0.005
4/1/2019		<0.005	<0.005					
4/3/2019						<0.005	<0.005	<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
8/20/2019					<0.005			
8/21/2019	0.00058 (J)			<0.005				
9/24/2019							0.00043 (J)	<0.005
9/25/2019		<0.005	<0.005			<0.005		
10/8/2019					<0.005			
10/9/2019	0.00063 (J)			<0.005				
2/11/2020			0.0041 (J)					
2/12/2020	0.00058 (J)	0.0038 (J)		0.0034 (J)		<0.005	0.0046 (J)	0.002 (J)
3/17/2020					<0.005			
3/19/2020		<0.005	<0.005					
3/24/2020				<0.005			0.00065 (J)	<0.005
3/25/2020	0.0012 (J)					<0.005		
8/27/2020					<0.005			
9/22/2020					<0.005	<0.005	0.001 (J)	<0.005
9/23/2020		<0.005	<0.005					
9/24/2020	<0.005			<0.005				
2/8/2021							<0.005	<0.005
2/9/2021						<0.005		
2/10/2021	<0.005	0.00094 (J)	0.00078 (J)	<0.005				
3/1/2021					<0.005			
3/2/2021							<0.005	<0.005
3/3/2021		<0.005	<0.005			<0.005		
3/4/2021	<0.005			<0.005				
8/19/2021		<0.005			<0.005			
8/26/2021	<0.005					<0.005	0.0016 (J)	<0.005
8/27/2021			<0.005					
9/3/2021				<0.005				

Time Series

Constituent: Barium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
9/9/1998	0.006								
9/20/1999	0.015								
9/12/2001	0.018								
9/3/2002	0.023								
7/29/2003	0.02								
12/5/2003	0.012								
9/22/2004	0.03								
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							
9/9/2009								0.025	
11/18/2009		0.05						0.025	
1/5/2010								0.018	
3/3/2010		0.061						0.022	
9/7/2010								0.019	
9/8/2010		0.071							
11/22/2010				0.12		0.03			
1/4/2011				0.1		0.065			
2/17/2011				0.1		0.061			
3/10/2011		0.057						0.017	
3/11/2011				0.05		0.066			
3/28/2011				0.087		0.04			
9/7/2011				0.065	0.025	0.041	0.02		
9/8/2011		0.057	0.086					0.019	
3/4/2012						0.046			
3/5/2012		0.061	0.044		0.014		0.048	0.027	
3/6/2012				0.049					
9/5/2012			0.034		0.0095		0.07	0.04	
9/10/2012		0.055				0.084			
9/11/2012				0.045					
2/5/2013			0.03				0.068	0.056	
2/6/2013		0.061		0.05	0.0094	0.042			
8/12/2013		0.055							
8/13/2013			0.027	0.13	0.13			0.07	
8/14/2013						0.042	0.036		
2/4/2014			0.037	0.08		0.046		0.051	
2/5/2014		0.063			0.066		0.044		
8/4/2014					0.043	0.027	0.058		
8/5/2014		0.038	0.048	0.068				0.041	
2/2/2015			0.069	0.066		0.02			
2/3/2015					0.031		0.033	0.04	
2/4/2015		0.039							
8/3/2015		0.031			0.039 (D)	0.017 (D)	0.037 (D)		
8/4/2015			0.023 (D)	0.053				0.042	
2/16/2016		0.045	0.044		0.038	0.032	0.04	0.068	
2/17/2016				0.059					
6/2/2016									0.0081
7/26/2016									0.0082 (J)
8/31/2016		0.0542	0.0711	0.0601	0.0286				
9/1/2016						0.0377	0.0345	0.0536	

Time Series

Constituent: Barium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
3/1/2021			0.063	0.043		0.035			
3/2/2021		0.039			0.015		0.011		0.0076
3/3/2021								0.043	
8/18/2021			0.076	0.033	0.014	0.04	0.013	0.035	
8/19/2021									0.0077
8/20/2021		0.036							

Time Series

Constituent: Barium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016				0.008	0.012				
6/2/2016									0.0064
6/6/2016		0.028	0.019						
6/7/2016	0.012					0.014	0.0058		
7/25/2016					0.0091 (J)				0.0071 (J)
7/26/2016				0.006 (J)					
7/27/2016	0.0126	0.0294	0.0167			0.0141			
7/28/2016							0.0068 (J)		
9/13/2016				0.0084 (J)	0.008 (J)				
9/14/2016								0.0037 (J)	
9/16/2016	0.0127		0.0168						
9/19/2016		0.0247				0.0155	0.0071 (J)		0.0069 (J)
11/1/2016				0.0062 (J)					0.007 (J)
11/2/2016						0.0157			
11/3/2016	0.0128	0.0248	0.0159				0.0092 (J)		
11/4/2016					0.0067 (J)			0.0059 (J)	
12/15/2016								0.0056 (J)	
1/11/2017	0.0142	0.0266	0.0162	0.0069 (J)					
1/13/2017						0.0158	0.0105		
1/16/2017					0.0096 (J)			0.0049 (J)	0.0071 (J)
2/21/2017									0.0077 (J)
3/1/2017		0.0275	0.0195						
3/2/2017	0.0155			0.0071 (J)	0.0112				
3/3/2017								0.0046 (J)	
3/6/2017						0.0163	0.0105		
4/26/2017		0.024	0.0182			0.0177	0.011		0.0074 (J)
4/27/2017				0.0064 (J)	0.0106				
4/28/2017								0.0039 (J)	
5/2/2017	0.0138								
5/26/2017								0.0034 (J)	
6/27/2017				0.0054 (J)	0.0092 (J)				
6/28/2017		0.0237	0.018					0.003 (J)	
6/29/2017	0.0128					0.017	0.0109		
6/30/2017									0.0076 (J)
3/27/2018					<0.01				<0.01
3/28/2018	0.014	0.024	0.021					<0.01	
3/29/2018				<0.01		0.014	<0.01		
6/5/2018				0.0069 (J)			0.011		
6/6/2018					0.0082 (J)	0.015			
6/7/2018		0.023						0.0037 (J)	
6/11/2018	0.013		0.019						0.007 (J)
9/25/2018	0.014	0.023	0.019			0.015	0.011		
10/1/2018				0.0062 (J)	0.0084 (J)			0.0038 (J)	
10/2/2018									0.0069 (J)
2/26/2019									0.007 (J)
2/27/2019				0.0074 (J)	0.008 (J)			0.0035 (J)	
3/5/2019	0.015		0.02			0.016	0.011		
3/6/2019		0.024							
3/28/2019				0.0082 (J)	0.0082 (J)				
3/29/2019								0.0039 (J)	
4/1/2019									0.0072 (J)
4/2/2019	0.016						0.011		

Time Series

Constituent: Barium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
4/3/2019		0.025	0.017			0.018			
9/24/2019				0.0072 (J)	0.0086 (J)		0.011	0.0038 (J)	
9/25/2019	0.015					0.014			0.0066 (J)
9/26/2019		0.021	0.017						
2/10/2020				0.0066 (J)	0.0091 (J)				
2/11/2020	0.015	0.022	0.019					0.0036 (J)	
2/12/2020						0.014	0.011		0.0073 (J)
3/18/2020					0.0084 (J)				
3/19/2020				0.0076 (J)				0.0036 (J)	0.0074 (J)
3/24/2020	0.015	0.021	0.017			0.015	0.011		
9/23/2020	0.015	0.021	0.016	0.0068 (J)	0.0079 (J)			0.0039 (J)	
9/24/2020						0.015	0.01		0.0062 (J)
2/9/2021		0.023	0.017			0.015	0.011		
2/10/2021								0.0032 (J)	
2/11/2021									0.0077 (J)
2/12/2021				0.0057 (J)	0.009 (J)				
3/1/2021									0.007
3/3/2021	0.017	0.023	0.017	0.0068	0.0094	0.015		0.0041 (J)	
3/4/2021							0.011		
8/19/2021				0.0065	0.0079				0.0071
8/26/2021			0.015						
8/27/2021	0.016	0.02				0.013		0.003 (J)	
9/1/2021							0.0099		

Time Series

Constituent: Barium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016			0.0038					
6/2/2016		0.01				0.013	0.0084	0.019
7/25/2016			0.0031 (J)					
7/26/2016		0.0088 (J)				0.0158	0.01	0.0179
8/30/2016					0.0413			
9/14/2016			0.0027 (J)			0.0143	0.0085 (J)	0.0181
9/15/2016		0.009 (J)						
11/1/2016		0.0079 (J)	0.0027 (J)					
11/2/2016						0.0148	0.0091 (J)	
11/4/2016								0.0165
11/14/2016					0.0383			
1/11/2017		0.0075 (J)	0.0036 (J)					
1/12/2017							0.0089 (J)	0.0199
1/13/2017						0.0146		
2/24/2017					0.0351			
3/1/2017			0.0036 (J)					
3/2/2017		0.009 (J)						
3/6/2017						0.0141		
3/7/2017							0.009 (J)	0.0196
4/26/2017		0.0078 (J)	0.0038 (J)					
5/1/2017						0.0149	0.0083 (J)	
5/2/2017								0.0202
5/8/2017					0.0251			
6/27/2017							0.0074 (J)	0.0184
6/28/2017		0.0071 (J)	0.004 (J)					
6/29/2017						0.0154		
7/11/2017					0.0233			
10/10/2017					0.0207			
10/11/2017	0.0092 (J)							
10/12/2017				0.0328				
11/20/2017	0.0081 (J)			0.0671				
1/10/2018				0.0656				
1/11/2018	0.0077 (J)							
2/19/2018				0.0598				
2/20/2018	<0.01							
3/28/2018		<0.01	<0.01					
3/29/2018						0.014	<0.01	0.021
4/2/2018					0.022			
4/3/2018	<0.01			0.045				
6/6/2018							0.008 (J)	
6/7/2018		0.0068 (J)				0.014		0.019
6/8/2018			0.0034 (J)					
6/28/2018	0.0078 (J)			0.047				
8/7/2018	0.0078 (J)			0.048				
9/19/2018					0.023			
9/24/2018	0.0071 (J)			0.042				
9/26/2018						0.02	0.0075 (J)	0.019
10/1/2018		0.0065 (J)	0.0034 (J)					
2/27/2019		0.0059 (J)	0.0034 (J)					
3/4/2019						0.016	0.0077 (J)	0.019
4/1/2019		0.0064 (J)	0.003 (J)					
4/3/2019						0.017	0.0087 (J)	0.023

Time Series

Constituent: Barium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
8/20/2019					0.024			
8/21/2019	0.015			0.035				
9/24/2019							0.0075 (J)	0.019
9/25/2019		0.0059 (J)	0.005 (J)			0.015		
10/8/2019					0.025			
10/9/2019	0.013			0.036				
2/11/2020			0.0031 (J)					
2/12/2020	0.011	0.0062 (J)		0.035		0.012	0.0079 (J)	0.021
3/17/2020					0.035			
3/19/2020		0.0072 (J)	0.0029 (J)					
3/24/2020				0.033			0.0076 (J)	0.021
3/25/2020	0.014					0.016		
8/27/2020					0.027			
9/22/2020					0.026	0.013	0.0076 (J)	0.019
9/23/2020		0.0051 (J)	0.0039 (J)					
9/24/2020	0.016			0.028				
2/8/2021							0.0079 (J)	0.02
2/9/2021						0.013		
2/10/2021	0.027	0.0059 (J)	0.0029 (J)	0.032				
3/1/2021					0.029			
3/2/2021							0.014	0.019
3/3/2021		0.0064	0.0031 (J)			0.014		
3/4/2021	0.028			0.032				
8/19/2021		0.0052			0.029			
8/26/2021	0.038					0.012	0.0092	0.019
8/27/2021			0.0039 (J)					
9/3/2021				0.035				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
9/9/1998	<0.0005								
9/20/1999	<0.0005								
9/12/2001	<0.0005								
9/3/2002	<0.0005								
7/29/2003	<0.0005								
12/5/2003	<0.0005								
9/22/2004	<0.0005								
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							
9/9/2009								<0.0005	
11/18/2009		<0.0005						<0.0005	
1/5/2010								<0.0005	
3/3/2010		<0.0005						<0.0005	
9/7/2010								<0.0005	
9/8/2010		<0.0005							
11/22/2010				<0.0005		<0.0005			
1/4/2011				<0.0005		<0.0005			
2/17/2011				<0.0005		<0.0005			
3/10/2011		<0.0005						<0.0005	
3/11/2011				<0.0005		<0.0005			
3/28/2011				<0.0005		<0.0005			
9/7/2011				<0.0005	<0.0005	<0.0005	<0.0005		
9/8/2011	<0.0005	<0.0005						<0.0005	
3/4/2012						<0.0005			
3/5/2012	<0.0005	<0.0005			<0.0005		<0.0005	<0.0005	
3/6/2012				<0.0005					
9/5/2012		<0.0005			<0.0005		<0.0005	<0.0005	
9/10/2012	<0.0005					<0.0005			
9/11/2012				<0.0005					
2/5/2013			<0.0005				<0.0005	<0.0005	
2/6/2013	<0.0005			<0.0005	<0.0005	<0.0005			
8/12/2013	<0.0005								
8/13/2013			<0.0005	<0.0005	<0.0005			<0.0005	
8/14/2013						<0.0005	<0.0005		
2/4/2014			<0.0005	<0.0005		<0.0005		<0.0005	
2/5/2014	<0.0005				<0.0005		<0.0005		
8/4/2014					0.0011 (J)	<0.0005	0.00026 (J)		
8/5/2014	<0.0005		7.5E-05 (J)	<0.0005				<0.0005	
2/2/2015			0.00023 (J)	<0.0005		<0.0005			
2/3/2015					0.00061 (J)		0.00023 (J)	<0.0005	
2/4/2015	<0.0005								
8/3/2015	<0.0005				0.00051 (JD)	<0.0005 (D)	0.00046 (JD)		
8/4/2015			<0.0005 (D)	<0.0005				<0.0005	
2/16/2016	<0.0005		<0.0005		0.00084 (J)	<0.0005	0.00048 (J)	<0.0005	
2/17/2016				<0.0005					
6/2/2016									<0.0005
7/26/2016									0.0002 (J)
8/31/2016	<0.0005		0.0001 (J)	<0.0005	0.0003 (J)				
9/1/2016						<0.0005	0.0005 (J)	<0.0005	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
9/15/2016									0.0002 (J)
11/2/2016									0.0002 (J)
11/28/2016		<0.0005		<0.0005					
11/29/2016			<0.0005					<0.0005	
11/30/2016					0.0004 (J)	<0.0005			
12/1/2016							0.0003 (J)		
1/10/2017									0.0002 (J)
2/22/2017		<0.0005		<0.0005					
2/23/2017			<0.0005		0.0003 (J)			<0.0005	
2/24/2017						<0.0005	0.0002 (J)		
3/8/2017									0.0002 (J)
4/26/2017									0.0002 (J)
5/8/2017		<0.0005							
5/9/2017			8E-05 (J)		0.0002 (J)				
5/10/2017				<0.0005		<0.0005	0.0003 (J)	<0.0005	
6/30/2017									0.0002 (J)
7/17/2017		<0.0005					0.0004 (J)		
7/18/2017			<0.0005	<0.0005	0.0002 (J)	<0.0005		<0.0005	
10/16/2017		<0.0005					0.0006 (J)		
10/17/2017			0.0001 (J)	<0.0005		<0.0005			
10/18/2017					0.0004 (J)			<0.0005	
2/19/2018		<0.0005						<0.0005	
2/20/2018				<0.0005		<0.0005			
2/21/2018			<0.0005		<0.0005		<0.0005		
3/27/2018									<0.0005
8/6/2018		<0.0005						<0.0005	
8/7/2018			7.4E-05 (J)		0.00026 (J)		0.00096 (J)		
8/8/2018				7E-05 (J)		<0.0005			
2/25/2019		<0.0005						<0.0005	
2/26/2019			7.5E-05 (J)	5.3E-05 (J)	0.00038 (J)	<0.0005	0.0015 (J)		0.00016 (J)
3/29/2019									0.00017 (J)
6/12/2019		<0.0005		<0.0005		<0.0005			
6/13/2019			<0.0005		0.00051 (J)		0.0015 (J)	<0.0005	
8/19/2019		<0.0005				<0.0005			
8/20/2019			0.0001 (J)	0.00017 (J)				<0.0005	
8/21/2019					0.00046 (J)		0.0028 (J)		
9/25/2019									0.00018 (J)
10/8/2019		<0.0005						<0.0005	
10/9/2019			0.00013 (J)	0.00014 (J)			0.0022 (J)		
10/10/2019					0.00039 (J)	<0.0005			
2/12/2020									0.00019 (J)
3/17/2020		<0.0005	7.6E-05 (J)		0.00095 (J)			<0.0005	
3/18/2020				0.00012 (J)		<0.0005	0.0028 (J)		0.00021 (J)
8/26/2020		<0.0005							
8/27/2020			0.00024 (J)				0.0023 (J)	<0.0005	
8/28/2020				0.0002 (J)	0.0005 (J)	<0.0005			
9/22/2020		<0.0005	0.00021 (J)	0.00021 (J)	0.00042 (J)	5.8E-05 (J)			
9/23/2020							0.0023 (J)	<0.0005	
9/25/2020									0.00018 (J)
2/10/2021									0.00019 (J)
3/1/2021			0.00023 (J)	0.00032 (J)		6E-05 (J)			
3/2/2021		<0.0005			0.00081		0.0037		0.00018 (J)

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
3/3/2021								<0.0005	
8/18/2021			0.0003 (J)	0.00022 (J)	0.0011	0.00011 (J)	0.0033	<0.0005	
8/19/2021									0.00022 (J)
8/20/2021		<0.0005							

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016				<0.0005	<0.0005				
6/2/2016									<0.0005
6/6/2016		<0.0005	<0.0005						
6/7/2016	<0.0005					<0.0005	<0.0005		
7/25/2016					<0.0005				<0.0005
7/26/2016				<0.0005					
7/27/2016	<0.0005	<0.0005	<0.0005			<0.0005			
7/28/2016							<0.0005		
9/13/2016				<0.0005	<0.0005				
9/14/2016								<0.0005	
9/16/2016	<0.0005		<0.0005						
9/19/2016		<0.0005				<0.0005	<0.0005		<0.0005
11/1/2016				<0.0005					<0.0005
11/2/2016						<0.0005			
11/3/2016	<0.0005	<0.0005	<0.0005				<0.0005		
11/4/2016					<0.0005			<0.0005	
12/15/2016								<0.0005	
1/11/2017	<0.0005	<0.0005	<0.0005	<0.0005					
1/13/2017						<0.0005	<0.0005		
1/16/2017					<0.0005			<0.0005	<0.0005
2/21/2017									<0.0005
3/1/2017		<0.0005	<0.0005						
3/2/2017	8E-05 (J)			<0.0005	<0.0005				
3/3/2017								<0.0005	
3/6/2017						<0.0005	<0.0005		
4/26/2017		<0.0005	<0.0005			<0.0005	<0.0005		<0.0005
4/27/2017				<0.0005	<0.0005				
4/28/2017								<0.0005	
5/2/2017	<0.0005								
5/26/2017								<0.0005	
6/27/2017				<0.0005	<0.0005				
6/28/2017		<0.0005	<0.0005					<0.0005	
6/29/2017	<0.0005					<0.0005	<0.0005		
6/30/2017									<0.0005
3/27/2018					<0.0005				<0.0005
3/28/2018	<0.0005	<0.0005	<0.0005					<0.0005	
3/29/2018				<0.0005		<0.0005	<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)						
9/25/2018	8.9E-05 (J)	<0.0005	8.2E-05 (J)			6.1E-05 (J)	<0.0005		
2/26/2019									7.2E-05 (J)
2/27/2019				<0.0005	<0.0005			<0.0005	
3/5/2019	9.1E-05 (J)		7.9E-05 (J)			0.00011 (J)	<0.0005		
3/6/2019		<0.0005							
3/28/2019				<0.0005	<0.0005				
3/29/2019								<0.0005	
4/1/2019									<0.0005
4/2/2019	9E-05 (J)						<0.0005		
4/3/2019		<0.0005	7.5E-05 (J)			6.4E-05 (J)			
9/24/2019				<0.0005	<0.0005		<0.0005	<0.0005	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
9/25/2019	8.1E-05 (J)					<0.0005			<0.0005
9/26/2019		<0.0005	8.4E-05 (J)						
2/10/2020				<0.0005	<0.0005				
2/11/2020	7.8E-05 (J)	<0.0005	7.6E-05 (J)					<0.0005	
2/12/2020						7.8E-05 (J)	<0.0005		<0.0005
3/18/2020					<0.0005				
3/19/2020				<0.0005				<0.0005	<0.0005
3/24/2020	8E-05 (J)	<0.0005	8.9E-05 (J)			7.6E-05 (J)	<0.0005		
9/23/2020	8.1E-05 (J)	<0.0005	8.8E-05 (J)	<0.0005	<0.0005			<0.0005	
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								<0.0005	
2/11/2021									4.7E-05 (J)
2/12/2021				<0.0005	<0.0005				
3/1/2021									<0.0005
3/3/2021	9.9E-05 (J)	<0.0005	0.00011 (J)	<0.0005	<0.0005	6.8E-05 (J)		<0.0005	
3/4/2021							<0.0005		
8/19/2021				<0.0005	<0.0005				<0.0005
8/26/2021			9.3E-05 (J)						
8/27/2021	0.0001 (J)	<0.0005				5.9E-05 (J)		<0.0005	
9/1/2021							<0.0005		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016			<0.0005					
6/2/2016		<0.0005				<0.0005	<0.0005	<0.0005
7/25/2016			<0.0005					
7/26/2016		<0.0005				<0.0005	<0.0005	<0.0005
8/30/2016					<0.0005			
9/14/2016			<0.0005			<0.0005	<0.0005	<0.0005
9/15/2016		<0.0005						
11/1/2016		<0.0005	<0.0005					
11/2/2016						<0.0005	<0.0005	
11/4/2016								<0.0005
11/14/2016					<0.0005			
1/11/2017		<0.0005	<0.0005					
1/12/2017							<0.0005	<0.0005
1/13/2017						<0.0005		
2/24/2017					<0.0005			
3/1/2017			<0.0005					
3/2/2017		<0.0005						
3/6/2017						<0.0005		
3/7/2017							<0.0005	<0.0005
4/26/2017		<0.0005	<0.0005					
5/1/2017						<0.0005	<0.0005	
5/2/2017								<0.0005
5/8/2017					7E-05 (J)			
6/27/2017							<0.0005	<0.0005
6/28/2017		<0.0005	<0.0005					
6/29/2017						<0.0005		
7/11/2017					<0.0005			
10/10/2017					<0.0005			
10/11/2017	<0.0005							
10/12/2017				0.0002 (J)				
11/20/2017	<0.0005			0.0003 (J)				
1/10/2018				0.0003 (J)				
1/11/2018	<0.0005							
2/19/2018				<0.0005				
2/20/2018	<0.0005							
3/28/2018		<0.0005	<0.0005					
3/29/2018						<0.0005	<0.0005	<0.0005
4/2/2018					<0.0005			
4/3/2018	<0.0005			<0.0005				
6/6/2018							<0.0005	
6/7/2018						<0.0005		<0.0005
6/28/2018	<0.0005			0.00029 (J)				
8/7/2018	<0.0005			0.00024 (J)				
9/19/2018					5.7E-05 (J)			
9/24/2018	<0.0005			0.00019 (J)				
9/26/2018						<0.0005	<0.0005	<0.0005
2/27/2019		<0.0005	<0.0005					
3/4/2019						<0.0005	<0.0005	<0.0005
4/1/2019		<0.0005	<0.0005					
4/3/2019						<0.0005	<0.0005	<0.0005
8/20/2019					<0.0005			
8/21/2019	<0.0005			0.0002 (J)				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
9/24/2019							<0.0005	<0.0005
9/25/2019		<0.0005	<0.0005			<0.0005		
10/9/2019	<0.0005			0.0002 (J)				
2/11/2020			<0.0005					
2/12/2020	<0.0005	<0.0005		0.00018 (J)		<0.0005	<0.0005	<0.0005
3/19/2020		<0.0005	<0.0005					
3/24/2020				0.00022 (J)			<0.0005	<0.0005
3/25/2020	<0.0005					<0.0005		
8/27/2020					4.7E-05 (J)			
9/22/2020					<0.0005	<0.0005	<0.0005	<0.0005
9/23/2020		<0.0005	5.9E-05 (J)					
9/24/2020	<0.0005			0.0002 (J)				
2/8/2021							<0.0005	<0.0005
2/9/2021						<0.0005		
2/10/2021	5.1E-05 (J)	<0.0005	<0.0005	0.00021 (J)				
3/1/2021					5.5E-05 (J)			
3/2/2021							<0.0005	<0.0005
3/3/2021		<0.0005	<0.0005			<0.0005		
3/4/2021	<0.0005			0.00021 (J)				
8/19/2021		<0.0005			<0.0005			
8/26/2021	<0.0005					<0.0005	<0.0005	<0.0005
8/27/2021			<0.0005					
9/3/2021				0.00024 (J)				

Time Series

Constituent: Boron (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
6/2/2016								<0.04	
6/7/2016									<0.04
7/26/2016								0.0177 (J)	
7/27/2016									0.008 (J)
8/31/2016	0.0315 (J)	0.0553 (J)	0.0305 (J)	0.0315 (J)					
9/1/2016					3.25	0.0191 (J)	0.0108 (J)		
9/15/2016								0.0214 (J)	
9/16/2016									0.0086 (J)
11/2/2016								<0.04	
11/3/2016									0.0077 (J)
11/28/2016	0.0095 (J)		0.0206 (J)						
11/29/2016		0.0149 (J)					<0.04		
11/30/2016				0.0089 (J)	0.813				
12/1/2016						0.0088 (J)			
1/10/2017								0.0198 (J)	
1/11/2017									0.0092 (J)
2/22/2017	<0.04		0.0192 (J)						
2/23/2017		0.0082 (J)		<0.04			<0.04		
2/24/2017					2.53	0.0067 (J)			
3/2/2017									0.0095 (J)
3/8/2017								0.0189 (J)	
4/26/2017								0.0161 (J)	
5/2/2017									<0.04
5/8/2017	0.0084 (J)								
5/9/2017		0.0097 (J)		0.0077 (J)					
5/10/2017			0.0179 (J)		1.22	0.0068 (J)	<0.04		
6/29/2017									0.0074 (J)
6/30/2017								0.0173 (J)	
7/17/2017	0.0092 (J)					0.0102 (J)			
7/18/2017		0.0123 (J)	0.0169 (J)	0.0073 (J)	0.97		0.0061 (J)		
10/4/2017									0.0077 (J)
10/5/2017								0.0173 (J)	
10/16/2017	<0.04					0.0066 (J)			
10/17/2017		0.0513	0.0168 (J)		0.804				
10/18/2017				<0.04			<0.04		
2/19/2018	<0.04						<0.04		
2/20/2018			<0.04		1.01				
2/21/2018		0.0378 (J)		0.0399 (J)		0.0268 (J)			
6/8/2018								0.013 (J)	
6/11/2018									0.01 (J)
8/6/2018	<0.04						<0.04		
8/7/2018		0.043		0.0049 (J)		0.012 (J)			
8/8/2018			0.017 (J)		1.3				
9/25/2018									0.0096 (J)
10/1/2018								0.015 (J)	
2/25/2019	<0.04						<0.04		
2/26/2019		0.062	0.017 (J)	0.0053 (J)	0.75	0.033 (J)			
3/29/2019								0.014 (J)	
4/2/2019									0.0066 (J)
6/12/2019	<0.04		0.013 (J)		1.5				
6/13/2019		0.057		<0.04		0.03 (J)	<0.04		
9/25/2019								0.018 (J)	0.0081 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
3/28/2019			0.005 (J)	<0.04					
3/29/2019							0.0065 (J)		
4/1/2019								<0.04	
4/2/2019						0.011 (J)			
4/3/2019	<0.04	0.0053 (J)			<0.04				
9/24/2019			0.0064 (J)	0.0055 (J)		0.018 (J)	0.0076 (J)		
9/25/2019					<0.04			<0.04	
9/26/2019	0.0062 (J)	0.0072 (J)							
10/9/2019									0.017 (J)
3/18/2020				0.0087 (J)					
3/19/2020			0.0085 (J)				0.0073 (J)	0.0052 (J)	
3/24/2020	0.0054 (J)	0.01 (J)			<0.04	0.016 (J)			
3/25/2020									0.043 (J)
9/23/2020	0.021 (J)	0.006 (J)	<0.04	<0.04			<0.04		
9/24/2020					0.0094 (J)	0.013 (J)		0.0075 (J)	0.037 (J)
3/1/2021								<0.04	
3/3/2021	<0.04	0.0094 (J)	<0.04	<0.04	<0.04		<0.04		
3/4/2021						0.0079 (J)			0.033 (J)
8/19/2021			<0.04	<0.04				<0.04	
8/26/2021		<0.04							0.095
8/27/2021	<0.04				<0.04		<0.04		
9/1/2021						<0.04			

Time Series

Constituent: Boron (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		<0.04					
6/2/2016	<0.04				<0.04	<0.04	<0.04
7/25/2016		<0.04					
7/26/2016	0.0097 (J)				0.0047 (J)	0.0052 (J)	<0.04
8/30/2016				0.0166 (J)			
9/14/2016		<0.04			<0.04	0.0071 (J)	0.01 (J)
9/15/2016	0.0102 (J)						
11/1/2016	<0.04	<0.04					
11/2/2016					<0.04	<0.04	
11/4/2016							<0.04
11/14/2016				0.0166 (J)			
1/11/2017	<0.04	<0.04					
1/12/2017						0.0076 (J)	<0.04
1/13/2017					<0.04		
2/24/2017				0.0145 (J)			
3/1/2017		<0.04					
3/2/2017	0.0084 (J)						
3/6/2017					<0.04		
3/7/2017						0.0089 (J)	<0.04
4/26/2017	<0.04	<0.04					
5/1/2017					<0.04	0.0061 (J)	
5/2/2017							<0.04
5/8/2017				0.0141 (J)			
6/27/2017						0.0079 (J)	<0.04
6/28/2017	<0.04	<0.04					
6/29/2017					<0.04		
7/11/2017				0.0131 (J)			
10/3/2017						0.0094 (J)	<0.04
10/4/2017	<0.04	<0.04					
10/5/2017					<0.04		
10/10/2017				0.0124 (J)			
10/12/2017			0.0401				
11/20/2017			0.156				
1/10/2018			0.15				
2/19/2018			0.146				
4/2/2018				0.013 (J)			
4/3/2018			0.12				
6/6/2018						0.0098 (J)	
6/7/2018	0.004 (J)				0.0045 (J)		<0.04
6/8/2018		<0.04					
6/28/2018			0.16				
8/7/2018			0.12				
9/19/2018				0.012 (J)			
9/24/2018			0.099				
9/26/2018					0.005 (J)	0.01 (J)	0.0057 (J)
10/1/2018	<0.04	<0.04					
3/26/2019			0.096				
3/27/2019				0.013 (J)			
4/1/2019	<0.04	<0.04					
4/3/2019					0.0055 (J)	0.0076 (J)	0.0044 (J)
9/24/2019						0.01 (J)	0.0049 (J)
9/25/2019	0.0054 (J)	<0.04			<0.04		

Time Series

Constituent: Boron (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
10/8/2019				0.012 (J)			
10/9/2019			0.079				
3/17/2020				0.023 (J)			
3/19/2020	0.0073 (J)	0.0053 (J)					
3/24/2020			0.088 (J)			0.011 (J)	0.0068 (J)
3/25/2020					0.011 (J)		
9/22/2020				0.0076 (J)	<0.04	0.0079 (J)	0.0053 (J)
9/23/2020	0.012 (J)	0.0073 (J)					
9/24/2020			0.087 (J)				
3/1/2021				0.013 (J)			
3/2/2021						0.0068 (J)	0.011 (J)
3/3/2021	<0.04	<0.04			0.0056 (J)		
3/4/2021			0.078				
8/19/2021	<0.04			0.011 (J)			
8/26/2021					<0.04	0.009 (J)	<0.04
8/27/2021		<0.04					
9/3/2021			0.077				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (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								
9/9/2009							<0.0005		
11/18/2009	<0.0005						<0.0005		
1/5/2010							<0.0005		
3/3/2010	<0.0005						<0.0005		
9/7/2010							<0.0005		
9/8/2010	<0.0005								
11/22/2010			<0.0005		<0.0005				
1/4/2011			<0.0005		<0.0005				
2/17/2011			<0.0005		<0.0005				
3/10/2011	<0.0005						<0.0005		
3/11/2011			<0.0005		<0.0005				
3/28/2011			<0.0005		<0.0005				
9/7/2011			<0.0005	<0.0005	<0.0005	<0.0005			
9/8/2011	<0.0005	<0.0005					<0.0005		
3/4/2012					<0.0005				
3/5/2012	<0.0005	<0.0005		<0.0005		<0.0005	<0.0005		
3/6/2012			<0.0005						
9/5/2012		<0.0005		<0.0005		<0.0005	<0.0005		
9/10/2012	<0.0005				<0.0005				
9/11/2012			<0.0005						
2/5/2013		<0.0005				<0.0005	<0.0005		
2/6/2013	<0.0005		<0.0005	<0.0005	<0.0005				
8/12/2013	<0.0005								
8/13/2013		<0.0005	<0.0005	<0.0005				<0.0005	
8/14/2013					<0.0005	<0.0005			
2/4/2014		<0.0005	<0.0005		<0.0005		<0.0005		
2/5/2014	<0.0005			<0.0005		<0.0005			
8/4/2014				0.00034 (J)	<0.0005	0.00045 (J)			
8/5/2014	<0.0005	<0.0005	<0.0005				<0.0005		
2/2/2015		<0.0005	<0.0005		<0.0005				
2/3/2015				<0.0005		<0.0005	<0.0005		
2/4/2015	<0.0005								
8/3/2015	<0.0005			<0.0005 (D)	<0.0005 (D)	0.00046 (JD)			
8/4/2015		<0.0005 (D)	<0.0005				<0.0005		
2/16/2016	<0.0005	<0.0005		0.00025 (J)	<0.0005	0.00097 (J)	<0.0005		
2/17/2016			<0.0005						
6/2/2016							<0.0005		
6/7/2016									<0.0005
7/26/2016							<0.0005		
7/27/2016									<0.0005
8/31/2016	<0.0005	<0.0005	0.0001 (J)	<0.0005					
9/1/2016					0.0001 (J)	0.0005 (J)	<0.0005		
9/15/2016							<0.0005		
9/16/2016									<0.0005
11/2/2016							<0.0005		
11/3/2016									<0.0005
11/28/2016	<0.0005		0.0001 (J)						

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
6/1/2016			<0.0005	<0.0005					
6/2/2016								<0.0005	
6/6/2016	<0.0005	<0.0005							
6/7/2016					<0.0005	<0.0005			
7/25/2016				<0.0005				<0.0005	
7/26/2016			<0.0005						
7/27/2016	<0.0005	<0.0005			<0.0005				
7/28/2016						<0.0005			
9/13/2016			<0.0005	<0.0005					
9/14/2016							<0.0005		
9/16/2016		<0.0005							
9/19/2016	<0.0005				<0.0005	<0.0005		<0.0005	
11/1/2016			<0.0005					<0.0005	
11/2/2016					<0.0005				
11/3/2016	<0.0005	<0.0005				<0.0005			
11/4/2016				<0.0005			<0.0005		
12/15/2016							<0.0005		
1/11/2017	<0.0005	0.0001 (J)	0.0002 (J)						
1/13/2017					<0.0005	<0.0005			
1/16/2017				<0.0005			<0.0005	<0.0005	
2/21/2017								<0.0005	
3/1/2017	<0.0005	<0.0005							
3/2/2017			<0.0005	<0.0005					
3/3/2017							<0.0005		
3/6/2017					<0.0005	<0.0005			
4/26/2017	<0.0005	<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		
6/29/2017					<0.0005	<0.0005			
6/30/2017								<0.0005	
10/11/2017									<0.0005
11/20/2017									<0.0005
1/11/2018									<0.0005
2/20/2018									<0.0005
3/27/2018				<0.0005				<0.0005	
3/28/2018	<0.0005	<0.0005					<0.0005		
3/29/2018			<0.0005		<0.0005	<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							
6/28/2018									<0.0005
8/7/2018									<0.0005
9/24/2018									<0.0005
9/25/2018	<0.0005	<0.0005			<0.0005	9.6E-05 (J)			
2/26/2019								<0.0005	
2/27/2019			<0.0005	<0.0005			<0.0005		
3/5/2019		<0.0005			<0.0005	<0.0005			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
3/6/2019	<0.0005								
3/28/2019			<0.0005	<0.0005					
3/29/2019							<0.0005		
4/1/2019								<0.0005	
4/2/2019						<0.0005			
4/3/2019	<0.0005	<0.0005			<0.0005				
8/21/2019									<0.0005
9/24/2019			<0.0005	<0.0005		<0.0005	<0.0005		
9/25/2019					<0.0005			<0.0005	
9/26/2019	<0.0005	<0.0005							
10/9/2019									<0.0005
2/10/2020			<0.0005	<0.0005					
2/11/2020	<0.0005	<0.0005					<0.0005		
2/12/2020					<0.0005	<0.0005		<0.0005	<0.0005
3/18/2020				<0.0005					
3/19/2020			<0.0005				<0.0005	<0.0005	
3/24/2020	<0.0005	<0.0005			<0.0005	<0.0005			
3/25/2020									<0.0005
9/23/2020	<0.0005	<0.0005	<0.0005	<0.0005			<0.0005		
9/24/2020					<0.0005	<0.0005		<0.0005	<0.0005
2/9/2021	<0.0005	<0.0005			<0.0005	0.00041 (J)			
2/10/2021							<0.0005		0.00019 (J)
2/11/2021								<0.0005	
2/12/2021			<0.0005	<0.0005					
3/1/2021								<0.0005	
3/3/2021	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005		
3/4/2021						<0.0005			0.0003 (J)
8/19/2021			<0.0005	<0.0005				<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 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		<0.0005					
6/2/2016	<0.0005				<0.0005	<0.0005	<0.0005
7/25/2016		<0.0005					
7/26/2016	<0.0005				<0.0005	<0.0005	<0.0005
8/30/2016				0.0001 (J)			
9/14/2016		<0.0005			<0.0005	<0.0005	<0.0005
9/15/2016	<0.0005						
11/1/2016	<0.0005	<0.0005					
11/2/2016					<0.0005	<0.0005	
11/4/2016							<0.0005
11/14/2016				0.0001 (J)			
1/11/2017	0.0001 (J)	8E-05 (J)					
1/12/2017						<0.0005	9E-05 (J)
1/13/2017					<0.0005		
2/24/2017				9E-05 (J)			
3/1/2017		<0.0005					
3/2/2017	<0.0005						
3/6/2017					<0.0005		
3/7/2017						<0.0005	<0.0005
4/26/2017	<0.0005	<0.0005					
5/1/2017					<0.0005	<0.0005	
5/2/2017							<0.0005
5/8/2017				0.0001 (J)			
6/27/2017						<0.0005	<0.0005
6/28/2017	<0.0005	<0.0005					
6/29/2017					<0.0005		
7/11/2017				<0.0005			
10/10/2017				<0.0005			
10/12/2017			<0.0005				
11/20/2017			<0.0005				
1/10/2018			<0.0005				
2/19/2018			<0.0005				
3/28/2018	<0.0005	<0.0005					
3/29/2018					<0.0005	<0.0005	<0.0005
4/2/2018				<0.0005			
4/3/2018			<0.0005				
6/6/2018						<0.0005	
6/7/2018					<0.0005		<0.0005
6/28/2018			<0.0005				
8/7/2018			<0.0005				
9/19/2018				<0.0005			
9/24/2018			<0.0005				
9/26/2018					<0.0005	<0.0005	<0.0005
2/27/2019	<0.0005	<0.0005					
3/4/2019					<0.0005	<0.0005	<0.0005
4/1/2019	<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	<0.0005
9/25/2019	<0.0005	<0.0005			<0.0005		
10/8/2019				<0.0005			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
10/9/2019			<0.0005				
2/11/2020		<0.0005					
2/12/2020	<0.0005		<0.0005		<0.0005	<0.0005	<0.0005
3/17/2020				<0.0005			
3/19/2020	<0.0005	<0.0005					
3/24/2020			<0.0005			<0.0005	<0.0005
3/25/2020					<0.0005		
8/27/2020				<0.0005			
9/22/2020					<0.0005	<0.0005	<0.0005
9/23/2020	<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	<0.0005	<0.0005				
3/2/2021						<0.0005	<0.0005
3/3/2021	<0.0005	<0.0005			<0.0005		
3/4/2021			<0.0005				
8/19/2021	<0.0005			<0.0005			
8/26/2021					<0.0005	<0.0005	<0.0005
8/27/2021		<0.0005					
9/3/2021			<0.0005				

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
3/28/2019			13.3 (J)	2.2					
3/29/2019							23.5 (J)		
4/1/2019								1.3	
4/2/2019						8.8			
4/3/2019	5.3	1.2			2.9				
9/24/2019			15.8	2.3		7.7	26.4		
9/25/2019					2.4			1.1	
9/26/2019	4.9	1.1							
10/9/2019									2.4
3/18/2020				2.1					
3/19/2020			15				27.4	1.2	
3/24/2020	5.3	1			2.6	6			
3/25/2020									2.7
9/23/2020	5.2	0.91 (J)	14.1	1.8			26.3		
9/24/2020					2.6	7.8		1.1	3.7
3/1/2021								1.2	
3/3/2021	5.2	0.96 (J)	14.1	1.8	2.4		25.6		
3/4/2021						8.7			8.2
8/19/2021			14.2	2				1.2	
8/26/2021		0.98 (J)							14.1
8/27/2021	5.1				2.4		22.6		
9/1/2021						9.5			

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		21					
6/2/2016	28				8.8	33	2.4
7/25/2016		20.3					
7/26/2016	24.5				7.69	32.3	2.12
8/30/2016				20.9			
9/14/2016		19.7			8.49	31	2.18
9/15/2016	27						
11/1/2016	25.6	18.4					
11/2/2016					7.83	30.9	
11/4/2016							2.17 (J)
11/14/2016				18.6			
1/11/2017	27.5	20.3					
1/12/2017						35.7	2.37
1/13/2017					8.08		
2/24/2017				16.1			
3/1/2017		18.6					
3/2/2017	27.5						
3/6/2017					8.64		
3/7/2017						32.7	2.34
4/26/2017	30.4	25.6					
5/1/2017					13.4	37	
5/2/2017							2.17
5/8/2017				14.6			
6/27/2017						36.5	2.13
6/28/2017	29.8	23.9					
6/29/2017					8.81		
7/11/2017				14.3			
10/3/2017						30.9	2.15
10/4/2017	29.7	22.1					
10/5/2017					9.29		
10/10/2017				12.1			
10/12/2017			2.9				
11/20/2017			10.4				
1/10/2018			10.2				
2/19/2018			<25				
4/2/2018				<25			
4/3/2018			6.3				
6/6/2018						26.2	
6/7/2018	29.1				8.2		2.3
6/8/2018		21.9 (J)					
6/28/2018			6.7				
8/7/2018			6.3				
9/19/2018				11.1 (J)			
9/24/2018			5.7				
9/26/2018					9.5 (J)	25.8	2.3
10/1/2018	26.9	19.7					
3/26/2019			5.6				
3/27/2019				10.8 (J)			
4/1/2019	30.1	20.4 (J)					
4/3/2019					8.4	24.7 (J)	2.8
9/24/2019						25.8	2.5
9/25/2019	29.5	22.4			9.5		

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
10/8/2019				9.7			
10/9/2019			4.9				
3/17/2020				14.8			
3/19/2020	31.5	21.9					
3/24/2020			4.8			26.1	2.5
3/25/2020					10.5		
9/22/2020				10.1	9.6	27.2	2.6
9/23/2020	28.6	23.6					
9/24/2020			4.4				
3/1/2021				10.3			
3/2/2021						1.6	2.6
3/3/2021	29.8	20.6			7.7		
3/4/2021			4.6				
8/19/2021	28.1			9.6			
8/26/2021					7.6	25.2	2.5
8/27/2021		24.7					
9/3/2021			5.6				

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
3/28/2019			1.4	1.5					
3/29/2019							1.2		
4/1/2019								1.7	
4/2/2019						2.5			
4/3/2019	6.9	6.3			3.1				
9/24/2019			1.1	1.3		3.1	0.95 (J)		
9/25/2019					2.8			1.6	
9/26/2019	7	7.1							
10/9/2019									2.1
3/18/2020				1.4					
3/19/2020			1.1				0.97 (J)	1.8	
3/24/2020	7	6.8			2.7	2.8			
3/25/2020									1.9
9/23/2020	7.2	7.2	0.99 (J)	1.2			0.88 (J)		
9/24/2020					2.7	2		1.5	2.7
3/1/2021								1.6	
3/3/2021	7	7.2	0.96 (J)	1.2	2.7		0.86 (J)		
3/4/2021						1.8			4.9
8/19/2021			1.1	1.3				1.6	
8/26/2021		7.3							7.2
8/27/2021	7.4				2.8		0.99 (J)		
9/1/2021						1.8			

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		1.3					
6/2/2016	1.4				3.7	7.2	4.3
7/25/2016		1.3					
7/26/2016	1.6				3.6	6.6	4.4
8/30/2016				5.2			
9/14/2016		1.3			3.4	6.6	3.8
9/15/2016	1.5						
11/1/2016	1.7	1.4					
11/2/2016					4.5	7.6	
11/4/2016							4.8
11/14/2016				6.4			
1/11/2017	1.2	1.1					
1/12/2017						6.8	3.8
1/13/2017					4.2		
2/24/2017				5.5			
3/1/2017		1.1					
3/2/2017	1.2						
3/6/2017					3.6		
3/7/2017						6.8	4.5
4/26/2017	1.2	1.1					
5/1/2017					4.3	7.2	
5/2/2017							4.6
5/8/2017				5.8			
6/27/2017						7	4.3
6/28/2017	1.3	1.2					
6/29/2017					4.2		
7/11/2017				5.8			
10/3/2017						6.5	4.2
10/4/2017	1.5	1.2					
10/5/2017					4.7		
10/10/2017				5.9			
10/12/2017			3.8				
11/20/2017			4.4				
1/10/2018			4.6				
2/19/2018			4.6				
4/2/2018				4.8			
4/3/2018			5.9				
6/6/2018						4.7	
6/7/2018	1.2				4.4		4.5
6/8/2018		1.2					
6/28/2018			5				
8/7/2018			4.3				
9/19/2018				4			
9/24/2018			4.9				
9/26/2018					4.8	4.8	5.1
10/1/2018	1.5	1.2					
3/26/2019			4.4				
3/27/2019				4.3			
4/1/2019	1.2	1.1					
4/3/2019					4.3	4	4.2
9/24/2019						3.7	4.5
9/25/2019	1.1	1.1			4.5		

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
10/8/2019				4.4			
10/9/2019			5.1				
3/17/2020				4.1			
3/19/2020	1.2	1.1					
3/24/2020			4.7			3.5	4.3
3/25/2020					3.9		
9/22/2020				4.2	4.5	3.6	4.2
9/23/2020	1.1	1					
9/24/2020			5				
3/1/2021				3.7			
3/2/2021						3.2	4.3
3/3/2021	1.1	0.99 (J)			4.1		
3/4/2021			4.9				
8/19/2021	1.1			3.5			
8/26/2021					4.4	3.4	4.3
8/27/2021		1.1					
9/3/2021			5.5				

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
9/9/1998	<0.005								
9/20/1999	0.01								
9/12/2001	<0.005								
9/3/2002	<0.005								
7/29/2003	<0.005								
12/5/2003	<0.005								
9/22/2004	0.0067								
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							
9/9/2009								<0.005	
11/18/2009		0.0036						<0.005	
1/5/2010								<0.005	
3/3/2010		<0.005						<0.005	
9/7/2010								<0.005	
9/8/2010		<0.005							
11/22/2010				<0.005		<0.005			
1/4/2011				<0.005		0.0062			
2/17/2011				<0.005		<0.005			
3/10/2011		<0.005						<0.005	
3/11/2011				<0.005		<0.005			
3/28/2011				<0.005		<0.005			
9/7/2011				<0.005	<0.005	<0.005	<0.005		
9/8/2011	<0.005	<0.005						0.0018	
3/4/2012						<0.005			
3/5/2012	<0.005	<0.005			<0.005		<0.005	<0.005	
3/6/2012				<0.005					
9/5/2012		<0.005			<0.005		<0.005	0.0013	
9/10/2012	<0.005					<0.005			
9/11/2012				<0.005					
2/5/2013		<0.005					<0.005	<0.005	
2/6/2013	<0.005			<0.005	<0.005	<0.005			
8/12/2013	<0.005								
8/13/2013		<0.005	0.0017	0.0019				0.0025	
8/14/2013						<0.005	0.0016		
2/4/2014		<0.005	<0.005			<0.005		0.0013	
2/5/2014	0.0059				0.0023		0.0018		
8/4/2014					0.002	<0.005	0.0029		
8/5/2014	<0.005	<0.005	<0.005					0.0018	
2/2/2015		0.0028	<0.005			<0.005			
2/3/2015					0.0014		0.0017	0.0015	
2/4/2015	<0.005								
8/3/2015	0.0011 (J)				0.0012 (JD)	<0.005 (D)	0.0028 (D)		
8/4/2015		<0.005 (D)	<0.005					0.0028	
2/16/2016	<0.005	<0.005			0.0017	<0.005	0.0028	0.001 (J)	
2/17/2016			<0.005						
6/2/2016									<0.005
7/26/2016									<0.005
8/31/2016	<0.005	0.0012 (J)	<0.005	0.0013 (J)					
9/1/2016						<0.005	0.0021 (J)	0.0015 (J)	

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
9/15/2016									<0.005
11/2/2016									<0.005
11/28/2016		<0.005		<0.005					
11/29/2016			0.0009 (J)					0.0014 (J)	
11/30/2016					0.001 (J)	0.0013 (J)			
12/1/2016							0.0017 (J)		
1/10/2017									<0.005
2/22/2017		<0.005		<0.005					
2/23/2017			0.001 (J)		0.0012 (J)			0.0017 (J)	
2/24/2017						<0.005	0.0018 (J)		
3/8/2017									<0.005
4/26/2017									<0.005
5/8/2017		<0.005							
5/9/2017			0.0011 (J)		0.0016 (J)				
5/10/2017				0.0008 (J)		0.0007 (J)	0.0024 (J)	0.0015 (J)	
6/30/2017									<0.005
7/17/2017		<0.005					0.0017 (J)		
7/18/2017			0.0008 (J)	<0.005	0.0009 (J)	0.0011 (J)		0.0012 (J)	
10/16/2017		<0.005					0.0023 (J)		
10/17/2017			0.001 (J)	<0.005		<0.005			
10/18/2017					0.001 (J)			0.0012 (J)	
2/19/2018		<0.005						<0.005	
2/20/2018				<0.005		<0.005			
2/21/2018			<0.005		<0.005		<0.005		
3/27/2018									<0.005
8/6/2018		<0.005						<0.005	
8/7/2018			<0.005		<0.005		0.0024 (J)		
8/8/2018				<0.005		<0.005			
2/25/2019		<0.005						<0.005	
2/26/2019			<0.005	<0.005	<0.005	<0.005	0.0019 (J)		<0.005
3/29/2019									<0.005
6/12/2019		<0.005		<0.005		<0.005			
6/13/2019			0.0009 (J)		0.00073 (J)		0.0018 (J)	0.00089 (J)	
8/19/2019		<0.005				0.00051 (J)			
8/20/2019			0.0011 (J)	<0.005				0.0017 (J)	
8/21/2019					0.001 (J)		0.0024 (J)		
9/25/2019									<0.005
10/8/2019		<0.005						0.0014 (J)	
10/9/2019			0.0012 (J)	0.00059 (J)			0.0024 (J)		
10/10/2019					0.0014 (J)	0.00057 (J)			
2/12/2020									<0.005
3/17/2020		<0.005	0.001 (J)		0.0013 (J)			0.0013 (J)	
3/18/2020				0.0004 (J)		<0.005	0.0023 (J)		<0.005
8/26/2020		<0.005							
8/27/2020			0.0013 (J)				0.0022 (J)	0.0012 (J)	
8/28/2020				0.00057 (J)	0.00088 (J)	<0.005			
9/22/2020		<0.005	0.0012 (J)	<0.005	0.0011 (J)	<0.005			
9/23/2020							0.002 (J)	0.0015 (J)	
9/25/2020									<0.005
2/10/2021									<0.005
3/1/2021			0.0012 (J)	<0.005		<0.005			
3/2/2021		<0.005			0.001 (J)		0.0021 (J)		<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
3/3/2021								0.0014 (J)	
8/18/2021			0.0015 (J)	<0.005	<0.005	<0.005	0.0023 (J)	0.0015 (J)	
8/19/2021									<0.005
8/20/2021		<0.005							

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016				0.0035	<0.005				
6/2/2016									<0.005
6/6/2016		0.0012 (J)	<0.005						
6/7/2016	<0.005					<0.005	<0.005		
7/25/2016					<0.005				<0.005
7/26/2016				<0.005					
7/27/2016	0.0008 (J)	0.0007 (J)	0.0006 (J)			0.0005 (J)			
7/28/2016							<0.005		
9/13/2016				<0.005	<0.005				
9/14/2016								<0.005	
9/16/2016	<0.005		<0.005						
9/19/2016		<0.005				<0.005	<0.005		<0.005
11/1/2016				<0.005					<0.005
11/2/2016						<0.005			
11/3/2016	<0.005	<0.005	<0.005				<0.005		
11/4/2016					<0.005			<0.005	
12/15/2016								<0.005	
1/11/2017	<0.005	<0.005	<0.005	<0.005					
1/13/2017						<0.005	<0.005		
1/16/2017					<0.005			<0.005	<0.005
2/21/2017									<0.005
3/1/2017		0.0012 (J)	<0.005						
3/2/2017	0.001 (J)			0.0009 (J)	0.0004 (J)				
3/3/2017								0.0005 (J)	
3/6/2017						<0.005	<0.005		
4/26/2017		0.0005 (J)	0.0003 (J)			0.0007 (J)	<0.005		0.0016 (J)
4/27/2017				<0.005	<0.005				
4/28/2017								0.0004 (J)	
5/2/2017	0.0007 (J)								
5/26/2017								<0.005	
6/27/2017				<0.005	<0.005				
6/28/2017		0.0006 (J)	<0.005					<0.005	
6/29/2017	0.0006 (J)					0.0005 (J)	<0.005		
6/30/2017									<0.005
3/27/2018					<0.005				<0.005
3/28/2018	<0.005	<0.005	<0.005					<0.005	
3/29/2018				<0.005		<0.005	<0.005		
2/26/2019									<0.005
2/27/2019				<0.005	<0.005			<0.005	
3/5/2019	<0.005		<0.005			<0.005	<0.005		
3/6/2019		<0.005							
3/28/2019				<0.005	0.0021 (J)				
3/29/2019								<0.005	
4/1/2019									<0.005
9/24/2019				0.00072 (J)	0.0028 (J)			<0.005	
9/25/2019									<0.005
2/10/2020				0.00042 (J)	<0.005				
2/11/2020	0.00087 (J)	0.001 (J)	0.00088 (J)					<0.005	
2/12/2020						0.00045 (J)	<0.005		<0.005
3/18/2020					0.00044 (J)				
3/19/2020				0.00084 (J)				0.00048 (J)	<0.005
3/24/2020	0.00087 (J)	0.00095 (J)	0.0011 (J)			0.00077 (J)	<0.005		

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
9/23/2020	0.00098 (J)	0.00092 (J)	0.0012 (J)	0.00062 (J)	0.00058 (J)			<0.005	
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	
2/11/2021									<0.005
2/12/2021				<0.005	<0.005				
3/1/2021									<0.005
3/3/2021	0.00082 (J)	0.00087 (J)	0.001 (J)	<0.005	<0.005	<0.005		<0.005	
3/4/2021							<0.005		
8/19/2021				<0.005	<0.005				<0.005
8/26/2021			<0.005						
8/27/2021	<0.005	<0.005				<0.005		<0.005	
9/1/2021							<0.005		

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016			<0.005					
6/2/2016		0.0013 (J)				<0.005	<0.005	<0.005
7/25/2016			<0.005					
7/26/2016		<0.005				<0.005	<0.005	<0.005
8/30/2016					<0.005			
9/14/2016			<0.005			<0.005	<0.005	<0.005
9/15/2016		<0.005						
11/1/2016		<0.005	<0.005					
11/2/2016						<0.005	<0.005	
11/4/2016								<0.005
11/14/2016					0.0093 (J)			
1/11/2017		<0.005	<0.005					
1/12/2017							<0.005	<0.005
1/13/2017						<0.005		
2/24/2017					<0.005			
3/1/2017			0.0004 (J)					
3/2/2017		0.0006 (J)						
3/6/2017						<0.005		
3/7/2017							<0.005	<0.005
4/26/2017		<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
6/28/2017		<0.005	<0.005					
6/29/2017						<0.005		
7/11/2017					<0.005			
10/10/2017					<0.005			
10/11/2017	<0.005							
10/12/2017				<0.005				
11/20/2017	<0.005			<0.005				
1/10/2018				<0.005				
1/11/2018	<0.005							
2/19/2018				<0.005				
2/20/2018	<0.005							
3/28/2018		<0.005	<0.005					
3/29/2018						<0.005	<0.005	<0.005
4/2/2018					<0.005			
4/3/2018	<0.005			<0.005				
6/28/2018	<0.005			<0.005				
8/7/2018	<0.005			<0.005				
9/19/2018					<0.005			
9/24/2018	<0.005			<0.005				
2/27/2019		<0.005	<0.005					
3/4/2019						<0.005	<0.005	<0.005
4/1/2019		<0.005	<0.005					
8/20/2019					<0.005			
8/21/2019	<0.005			0.00053 (J)				
9/25/2019		0.0014 (J)	0.0019 (J)					
10/9/2019	<0.005			0.0012 (J)				
2/11/2020			<0.005					
2/12/2020	<0.005	<0.005		0.00065 (J)		<0.005	<0.005	0.00043 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
3/19/2020		<0.005	<0.005					
3/24/2020				0.00055 (J)			<0.005	0.0014 (J)
3/25/2020	<0.005					0.00058 (J)		
8/27/2020					<0.005			
9/22/2020					<0.005	<0.005	0.0011 (J)	<0.005
9/23/2020		<0.005	<0.005					
9/24/2020	<0.005			<0.005				
2/8/2021							<0.005	<0.005
2/9/2021						<0.005		
2/10/2021	<0.005	<0.005	<0.005	<0.005				
3/1/2021					<0.005			
3/2/2021							<0.005	<0.005
3/3/2021		<0.005	<0.005			0.0013 (J)		
3/4/2021	<0.005			<0.005				
8/19/2021		<0.005			<0.005			
8/26/2021	<0.005					<0.005	<0.005	<0.005
8/27/2021			<0.005					
9/3/2021				<0.005				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
9/9/1998	0.013								
9/20/1999	<0.005								
9/12/2001	0.0024								
9/3/2002	<0.005								
7/29/2003	0.002								
12/5/2003	<0.005								
9/22/2004	<0.005								
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							
9/9/2009								<0.005	
11/18/2009		<0.005						<0.005	
1/5/2010								<0.005	
3/3/2010		0.0027						<0.005	
9/7/2010								<0.005	
9/8/2010		0.007							
11/22/2010				0.038		<0.005			
1/4/2011				0.049		0.0036			
2/17/2011				0.044		0.0035			
3/10/2011		<0.005						<0.005	
3/11/2011				0.038		0.0053			
3/28/2011				0.029		<0.005			
9/7/2011				0.031	<0.005	0.0033	<0.005		
9/8/2011	<0.005		0.015					<0.005	
3/4/2012						0.0032			
3/5/2012		0.0032	<0.005		<0.005		<0.005	<0.005	
3/6/2012				0.021					
9/5/2012			0.0018		<0.005		<0.005	<0.005	
9/10/2012	<0.005					0.0067			
9/11/2012				0.017					
2/5/2013			0.0013				<0.005	<0.005	
2/6/2013	<0.005			0.025	<0.005	0.0024			
8/12/2013	0.0045								
8/13/2013			<0.005	0.023	<0.005			<0.005	
8/14/2013						0.0014	<0.005		
2/4/2014			<0.005	0.019		<0.005		<0.005	
2/5/2014	<0.005				<0.005		<0.005		
8/4/2014					<0.005	<0.005	<0.005		
8/5/2014		0.0027	<0.005	0.023				<0.005	
2/2/2015			0.0015	0.022		<0.005			
2/3/2015					<0.005		<0.005	<0.005	
2/4/2015		0.0016							
8/3/2015		0.002			<0.005 (D)	<0.005 (D)	<0.005 (D)		
8/4/2015			<0.005 (D)	0.021				0.0014	
2/16/2016		0.0027	<0.005		<0.005	0.0082	<0.005	<0.005	
2/17/2016				0.024					
6/2/2016									<0.005
7/26/2016									<0.005
8/31/2016		0.0053 (J)	0.0006 (J)	0.0239	<0.005				
9/1/2016						0.0023 (J)	<0.005	<0.005	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
3/1/2021			0.00083 (J)	0.00074 (J)		0.0016 (J)			
3/2/2021		0.21 (o)			0.0086		0.00039 (J)		<0.005
3/3/2021								<0.005	
8/18/2021			0.0014 (J)	0.00066 (J)	0.01	0.0027 (J)	0.00053 (J)	<0.005	
8/19/2021									<0.005
8/20/2021		0.074 (o)							

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016				<0.005	0.00082 (J)				
6/2/2016									0.035
6/6/2016		<0.005	0.00061 (J)						
6/7/2016	<0.005					<0.005	0.0056		
7/25/2016					0.0008 (J)				0.0312
7/26/2016				<0.005					
7/27/2016	<0.005	<0.005	0.0004 (J)			<0.005			
7/28/2016							0.0032 (J)		
9/13/2016				<0.005	0.0009 (J)				
9/14/2016								<0.005	
9/16/2016	<0.005		0.0008 (J)						
9/19/2016		<0.005				<0.005	0.0047 (J)		0.0275
11/1/2016				<0.005					0.0255
11/2/2016						<0.005			
11/3/2016	<0.005	<0.005	<0.005				0.013		
11/4/2016					0.0025 (J)			<0.005	
12/15/2016								<0.005	
1/11/2017	<0.005	<0.005	<0.005	<0.005					
1/13/2017						<0.005	0.011		
1/16/2017					0.0027 (J)			<0.005	0.0245
2/21/2017									0.0272
3/1/2017		<0.005	<0.005						
3/2/2017	<0.005			<0.005	0.0022 (J)				
3/3/2017								<0.005	
3/6/2017						<0.005	0.011		
4/26/2017		<0.005	<0.005			<0.005	0.009 (J)		0.0244
4/27/2017				<0.005	0.0018 (J)				
4/28/2017								<0.005	
5/2/2017	<0.005								
5/26/2017								<0.005	
6/27/2017				<0.005	0.0023 (J)				
6/28/2017		<0.005	<0.005					<0.005	
6/29/2017	<0.005					<0.005	0.0093 (J)		
6/30/2017									0.0233
3/27/2018					<0.005				0.023
3/28/2018	<0.005	<0.005	<0.005					<0.005	
3/29/2018				<0.005		<0.005	<0.005		
6/5/2018				<0.005			0.0041 (J)		
6/6/2018					<0.005	<0.005			
6/7/2018		<0.005						<0.005	
6/11/2018	<0.005		<0.005						0.023
9/25/2018	<0.005	<0.005	<0.005			<0.005	0.0044 (J)		
10/1/2018				<0.005	0.00059 (J)			<0.005	
10/2/2018									0.022
2/26/2019									0.021
2/27/2019				<0.005	0.00064 (J)			<0.005	
3/5/2019	<0.005		<0.005			<0.005	0.0039 (J)		
3/6/2019		<0.005							
3/28/2019				<0.005	0.00091 (J)				
3/29/2019								<0.005	
4/1/2019									0.022
4/2/2019	<0.005						0.0039 (J)		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
4/3/2019		<0.005	<0.005			<0.005			
9/24/2019				<0.005	0.0013 (J)		0.0032 (J)	<0.005	
9/25/2019	<0.005					<0.005			0.016
9/26/2019		<0.005	<0.005						
2/10/2020				<0.005	0.0016 (J)				
2/11/2020	<0.005	<0.005	<0.005					<0.005	
2/12/2020						<0.005	0.0081		0.014
3/18/2020					0.00087 (J)				
3/19/2020				<0.005				<0.005	0.014
3/24/2020	<0.005	<0.005	<0.005			<0.005	0.0061		
9/23/2020	<0.005	<0.005	<0.005	<0.005	0.0013 (J)			<0.005	
9/24/2020						<0.005	0.0079		0.0064
2/9/2021		<0.005	<0.005			<0.005	0.009		
2/10/2021								<0.005	
2/11/2021									0.0078
2/12/2021				0.00086 (J)	0.0028 (J)				
3/1/2021									0.0061
3/3/2021	<0.005	<0.005	<0.005	<0.005	0.003 (J)	<0.005		<0.005	
3/4/2021							0.0065		
8/19/2021				0.00055 (J)	0.0017 (J)				0.0052
8/26/2021			<0.005						
8/27/2021	<0.005	<0.005				<0.005		<0.005	
9/1/2021							0.0068		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016			<0.005					
6/2/2016		<0.005				0.00082 (J)	<0.005	<0.005
7/25/2016			<0.005					
7/26/2016		<0.005				0.0012 (J)	<0.005	<0.005
8/30/2016					0.0073 (J)			
9/14/2016			<0.005			0.0006 (J)	<0.005	<0.005
9/15/2016		<0.005						
11/1/2016		<0.005	<0.005					
11/2/2016						<0.005	<0.005	
11/4/2016								<0.005
11/14/2016					0.0115			
1/11/2017		<0.005	<0.005					
1/12/2017							<0.005	<0.005
1/13/2017						0.0029 (J)		
2/24/2017					0.0106			
3/1/2017			<0.005					
3/2/2017		<0.005						
3/6/2017						0.0006 (J)		
3/7/2017							<0.005	<0.005
4/26/2017		<0.005	<0.005					
5/1/2017						<0.005	<0.005	
5/2/2017								<0.005
5/8/2017					0.0099 (J)			
6/27/2017							<0.005	<0.005
6/28/2017		<0.005	<0.005					
6/29/2017						0.0005 (J)		
7/11/2017					0.0096 (J)			
10/10/2017					0.0036 (J)			
10/11/2017	<0.005							
10/12/2017				<0.005				
11/20/2017	<0.005			<0.005				
1/10/2018				<0.005				
1/11/2018	<0.005							
2/19/2018				<0.005				
2/20/2018	<0.005							
3/28/2018		<0.005	<0.005					
3/29/2018						<0.005	<0.005	<0.005
4/2/2018					<0.005			
4/3/2018	<0.005			<0.005				
6/6/2018							<0.005	
6/7/2018		<0.005				0.00058 (J)		<0.005
6/8/2018			<0.005					
6/28/2018	<0.005			<0.005				
8/7/2018	<0.005			<0.005				
9/19/2018					0.0036 (J)			
9/24/2018	<0.005			<0.005				
9/26/2018						<0.005	<0.005	<0.005
10/1/2018		<0.005	<0.005					
2/27/2019		<0.005	<0.005					
3/4/2019						<0.005	<0.005	<0.005
4/1/2019		<0.005	<0.005					
4/3/2019						0.00083 (J)	<0.005	<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
8/20/2019					0.00092 (J)			
8/21/2019	0.00034 (J)			<0.005				
9/24/2019							<0.005	<0.005
9/25/2019		<0.005	<0.005			<0.005		
10/8/2019					0.0014 (J)			
10/9/2019	<0.005			<0.005				
2/11/2020			<0.005					
2/12/2020	0.00034 (J)	<0.005		<0.005		<0.005	0.00037 (J)	<0.005
3/17/2020					0.0017 (J)			
3/19/2020		<0.005	<0.005					
3/24/2020				<0.005			0.00035 (J)	<0.005
3/25/2020	0.00034 (J)					0.00056 (J)		
8/27/2020					0.0011 (J)			
9/22/2020					0.00097 (J)	<0.005	<0.005	<0.005
9/23/2020		<0.005	<0.005					
9/24/2020	0.00053 (J)			<0.005				
2/8/2021							<0.005	<0.005
2/9/2021						<0.005		
2/10/2021	0.00098 (J)	<0.005	<0.005	<0.005				
3/1/2021					0.001 (J)			
3/2/2021							<0.005	<0.005
3/3/2021		<0.005	<0.005			<0.005		
3/4/2021	0.00071 (J)			<0.005				
8/19/2021		<0.005			0.00099 (J)			
8/26/2021	0.0011 (J)					0.00042 (J)	<0.005	<0.005
8/27/2021			<0.005					
9/3/2021				<0.005				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
6/2/2016								0.329 (U)	
6/7/2016									0.158 (U)
7/26/2016								1.51	
7/27/2016									0.0354 (U)
8/31/2016	1.2								
9/15/2016								1.04 (U)	
9/16/2016									1.04
11/2/2016								0.496 (U)	
11/3/2016									0.314 (U)
11/28/2016	0.264 (U)		0.387 (U)						
11/29/2016		0.551 (U)					0.232 (U)		
11/30/2016				0.0236 (U)	0.477 (U)				
12/1/2016						0.0588 (U)			
1/10/2017								0.376 (U)	
1/11/2017									0.34 (U)
2/22/2017	1.06 (U)		0.739 (U)						
2/23/2017		0.504 (U)		0.728 (U)			1.18 (U)		
2/24/2017					0.305 (U)	0.487 (U)			
3/2/2017									0.746 (U)
3/8/2017								0.0745 (U)	
4/26/2017								0.282 (U)	
5/2/2017									0.111 (U)
5/8/2017	0.187 (U)								
5/9/2017		0.434 (U)		0.0367 (U)					
5/10/2017			0.458 (U)		0.0659 (U)	0.289 (U)	0.658 (U)		
6/29/2017									0.576 (U)
6/30/2017								0.994	
7/17/2017	1.42					0.528 (U)			
7/18/2017		1.37	0.708 (U)	0.237 (U)	0.199 (U)		0.797 (U)		
10/16/2017	1.17					0.558 (U)			
10/17/2017		0.937 (U)	0.402 (U)		0.294 (U)				
10/18/2017				0.706 (U)			0.239 (U)		
2/19/2018	1.58 (D)						0.973 (D)		
2/20/2018			1.64 (D)		1.03 (UD)				
2/21/2018		0.817 (UD)		0.526 (UD)		1.13 (UD)			
3/27/2018								0.189 (U)	
3/28/2018									0.438 (U)
6/8/2018								0.218 (U)	
6/11/2018									0.901 (U)
8/6/2018	0.196 (U)						0.866 (U)		
8/7/2018		0.578 (U)		0.376 (U)		0.51 (U)			
8/8/2018			2.01		0.0378 (U)				
9/25/2018									0.68 (U)
10/1/2018								1.24	
2/26/2019								0.202 (U)	
3/5/2019									0.272 (U)
3/29/2019								0 (U)	
4/2/2019									0.847 (U)
8/19/2019	1.39				0.637 (U)				
8/20/2019		1.25 (U)	1.22				0.409 (U)		
8/21/2019				0.774 (U)		1.82			
9/25/2019								0.707 (U)	0.412 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
6/1/2016			0.321 (U)	0.42					
6/2/2016								0.0652 (U)	
6/6/2016	0.0804 (U)	0.301 (U)							
6/7/2016					0.0191 (U)	0.347			
7/25/2016				1.83				3.01	
7/26/2016			0.707 (U)						
7/27/2016	0.206 (U)	0.196 (U)			0.541 (U)				
7/28/2016						0.815 (U)			
9/13/2016			1.22	0.841					
9/14/2016							0.98 (U)		
9/16/2016		0.915 (U)							
9/19/2016	1.58				0.826 (U)	0.862 (U)		0.871 (U)	
11/1/2016			0.805 (U)					0.307 (U)	
11/2/2016					0.791 (U)				
11/3/2016	0.342 (U)	0.928 (U)				0.797 (U)			
11/4/2016				0.166 (U)			0.277 (U)		
12/15/2016							0.071 (U)		
1/11/2017	0.365 (U)	0.502 (U)	0.705 (U)						
1/13/2017					0.296 (U)	0.72 (U)			
1/16/2017				0			0.44 (U)	0.284 (U)	
2/21/2017								0.503 (U)	
3/1/2017	0.395 (U)	0.202 (U)							
3/2/2017			0.251 (U)	0.504 (U)					
3/3/2017							0.448 (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)		0.204 (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	0.892	0.636 (U)					0.608 (U)		
6/29/2017					1.12	0.841 (U)			
6/30/2017								0.738 (U)	
10/11/2017									0.586 (U)
11/20/2017									0.816 (U)
1/11/2018									0.841 (U)
2/20/2018									1.58
3/27/2018				0.39 (U)				0.31 (U)	
3/28/2018	0.92 (U)	0.56 (U)					0.412 (U)		
3/29/2018			0.503 (U)		1.73	1.91			
4/3/2018									0.385 (U)
6/5/2018			0.771 (U)			1.39			
6/6/2018				2.8	0.694 (U)				
6/7/2018	0.668 (U)						0.73 (U)		
6/11/2018		0.649 (U)						0.608 (U)	
6/28/2018									0.283 (U)
8/7/2018									0.332 (U)
9/24/2018									0.767 (U)
9/25/2018	0.141 (U)	0.574 (U)			0.772 (U)	1.62			
10/1/2018			0.783 (U)	1.06 (U)			0.756 (U)		
10/2/2018								0.97 (U)	
2/26/2019								0.524 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
2/27/2019			1.21 (U)	0.637 (U)			0.635 (U)		
3/5/2019		0.474 (U)			0.84 (U)	0.985 (U)			
3/6/2019	0.714 (U)								
3/28/2019			1.13 (U)	0.125 (U)					
3/29/2019							0.224 (U)		
4/1/2019								1.02 (U)	
4/2/2019						1.42			
4/3/2019	0.385 (U)	0.429 (U)			1.01				
8/21/2019									1.01 (U)
9/24/2019			1.22 (U)	0.949 (U)		1.35	0.429 (U)		
9/25/2019					1.18 (U)			1.02 (U)	
9/26/2019	0.386 (U)	0.222 (U)							
10/8/2019									1.02 (U)
2/10/2020			1.41	1.25 (U)					
2/11/2020	1.48	0.597 (U)					0.817 (U)		
2/12/2020					1.11 (U)	1.61		0.301 (U)	0.45 (U)
3/18/2020				0.458 (U)					
3/19/2020			1.1				0.715 (U)	1	
3/24/2020	0.632 (U)	0.262 (U)			1.88	1.24 (U)			
3/25/2020									0.377 (U)
9/23/2020	0.887 (U)	0.43 (U)	1.35 (U)	0.00884 (U)			0.565 (U)		
9/24/2020					0.611 (U)	1.8		0.684 (U)	0.568 (U)
2/9/2021	0.314 (U)	0.259 (U)			0.284 (U)	1.24			
2/10/2021							1.04 (U)		0.518 (U)
2/11/2021								0.678 (U)	
2/12/2021			0.366 (U)	0.458 (U)					
3/1/2021								0.412 (U)	
3/3/2021	0.565 (U)	0.352 (U)	0.492 (U)	0.105 (U)	0.133 (U)	1.2	0.459 (U)		
3/4/2021									0.636 (U)
8/19/2021			1.17 (U)	0.0732 (U)				0.234 (U)	
8/26/2021		0.686 (U)							0.674 (U)
8/27/2021	0.761 (U)				0.779 (U)		0.409 (U)		
9/1/2021						1.86			

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		0.896					
6/2/2016	2.51				0.721	5.11	0.614
7/25/2016		2.28					
7/26/2016	3.82				1.26	6.92	1.47
8/30/2016				1.09			
9/14/2016		0.821 (U)			0.901 (U)	3.96	1.27
9/15/2016	4.24						
11/1/2016	3.92	0.585 (U)					
11/2/2016					1.09 (U)	4.53	
11/4/2016							0.434 (U)
12/15/2016				1 (U)			
1/11/2017	2.52	1.22					
1/12/2017						4.43	0.202 (U)
1/13/2017					1.19		
2/24/2017				0.504 (U)			
3/1/2017		0.877 (U)					
3/2/2017	3.13						
3/6/2017					0.669 (U)		
3/7/2017						4.8	0.0674 (U)
4/26/2017	2.35	0.672 (U)					
5/1/2017					0.803 (U)	4.16	
5/2/2017							0.444 (U)
5/8/2017				0.455 (U)			
6/27/2017						2.8	0.77 (U)
6/28/2017	2.6	1.07 (U)					
6/29/2017					1.35		
7/11/2017				0.471 (U)			
10/10/2017				0.649 (U)			
10/12/2017			1.49				
11/20/2017			0.918 (U)				
1/10/2018			1.05				
2/19/2018			2.05				
3/28/2018	3	0.65 (U)					
3/29/2018					0.703 (U)	3.42	0.648 (U)
4/2/2018				0.512 (U)			
4/3/2018			0.68 (U)				
6/6/2018						3.99	
6/7/2018	2.79				0.628 (U)		0.745 (U)
6/8/2018		1.89					
6/28/2018			1.28				
8/7/2018			1.16				
9/19/2018				0.789 (U)			
9/24/2018			0.965 (U)				
9/26/2018					0.756 (U)	2.73	0.377 (U)
10/1/2018	3.14	1.58					
2/27/2019	3.79	3.67					
3/4/2019					1.21 (U)	4.43	1 (U)
4/1/2019	4.33	2.28					
4/3/2019					1.07 (U)	4.79	0.43 (U)
8/20/2019				2.44			
8/21/2019			1.24 (U)				
9/24/2019						4.06	0.699 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
9/25/2019	4.2	1.6			1.86		
10/8/2019			0.866 (U)	1.72			
2/11/2020	3.87	1.85					
2/12/2020			1.83		1.25	4.02	0.913 (U)
3/17/2020				1.22 (U)			
3/19/2020	3.96	2.2					
3/24/2020			1.27 (U)			3.52	
3/25/2020					0.766 (U)		
8/27/2020				1.26 (U)			
9/22/2020				1.06 (U)	0.795 (U)	2.98	0.428 (U)
9/23/2020	4.14	1.14 (U)					
9/24/2020			0.634 (U)				
2/8/2021						2.89	0.613 (U)
2/9/2021					0.626 (U)		
2/10/2021	3.65	2.46	0.783 (U)				
3/1/2021				1.2			
3/2/2021						1.67	0.579 (U)
3/3/2021	3.58	2.03			1		
3/4/2021			0.818 (U)				
8/19/2021	3.53			1.07 (U)			
8/26/2021					1.17 (U)	4.68	0.798 (U)
8/27/2021		1.34					
9/3/2021			0.971 (U)				

Time Series

Constituent: Copper (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
9/9/1998	<0.005							
9/20/1999	<0.005							
9/12/2001	0.004							
9/3/2002	0.01							
7/29/2003	0.011							
12/5/2003	0.0034							
9/22/2004	0.0033							
5/1/2007		0.0047						
9/11/2007		<0.005						
3/20/2008		<0.005						
8/27/2008		0.0074						
3/3/2009		<0.005						
9/9/2009								0.0028
11/18/2009		0.0029						0.0027
1/5/2010								0.0035
3/3/2010		0.005						<0.005
9/7/2010								<0.005
9/8/2010		<0.005						
11/22/2010				<0.005		<0.005		
1/4/2011				<0.005		0.0049		
2/17/2011				<0.005		<0.005		
3/10/2011		0.0029						<0.005
3/11/2011				<0.005		<0.005		
3/28/2011				<0.005		<0.005		
9/7/2011				<0.005	<0.005	<0.005	<0.005	
9/8/2011		<0.005	<0.005					<0.005
3/4/2012						<0.005		
3/5/2012		<0.005	<0.005		<0.005		<0.005	<0.005
3/6/2012				<0.005				
9/5/2012			<0.005		0.016		<0.005	<0.005
9/10/2012		<0.005				<0.005		
9/11/2012				<0.005				
2/5/2013			<0.005				<0.005	<0.005
2/6/2013		<0.005		<0.005	<0.005	<0.005		
8/12/2013		<0.005						
8/13/2013			<0.005	<0.005	<0.005			<0.005
8/14/2013						<0.005	<0.005	
2/4/2014			<0.005	<0.005		<0.005		<0.005
2/5/2014		<0.005			<0.005		<0.005	
8/4/2014					0.0012 (J)	<0.005	0.0015 (J)	
8/5/2014		0.005	<0.005	<0.005				0.0012 (J)
2/2/2015			0.0031 (J)	<0.005		<0.005		
2/3/2015					<0.005		<0.005	0.0013 (J)
2/4/2015		0.0025 (J)						
8/3/2015		0.0014 (J)			<0.005 (D)	<0.005 (D)	<0.005 (D)	
8/4/2015			<0.005 (D)	<0.005				0.0043 (J)
2/16/2016		0.0011 (J)	<0.005		0.00082 (J)	0.00088 (J)	<0.005	<0.005
2/17/2016				<0.005				
2/22/2017		0.0011 (J)		<0.005				
2/23/2017			<0.005		<0.005			0.0018 (J)
2/24/2017						<0.005	<0.005	
2/19/2018		<0.005						<0.005

Time Series

Constituent: Copper (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
2/20/2018				<0.005		<0.005		
2/21/2018			<0.005		<0.005		<0.005	
8/6/2018		<0.005						0.0016 (J)
8/7/2018			<0.005		<0.005		<0.005	
8/8/2018				<0.005		<0.005		
2/25/2019		<0.005						0.0016 (J)
2/26/2019			<0.005	<0.005	<0.005	<0.005	<0.005	
6/12/2019		0.00034 (J)		<0.005		0.00025 (J)		
6/13/2019			<0.005		<0.005		0.00049 (J)	0.0011 (J)
10/8/2019		0.00041 (J)						0.0011 (J)
10/9/2019			0.00079 (J)	0.00024 (J)			0.00087 (J)	
10/10/2019					0.00033 (J)	<0.005		
3/17/2020		0.00078 (J)	0.0004 (J)		0.00039 (J)			0.00091 (J)
3/18/2020				<0.005		0.00021 (J)	0.00097 (J)	
9/22/2020		0.0041 (J)	<0.005	<0.005	<0.005	<0.005		
9/23/2020							<0.005	<0.005
3/1/2021			<0.005	<0.005		<0.005		
3/2/2021		0.0027 (J)			<0.005		<0.005	
3/3/2021								<0.005
8/18/2021			0.00067 (J)	<0.005	<0.005	<0.005	0.0022 (J)	0.00083 (J)
8/20/2021		0.0012 (J)						

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
6/1/2016			0.12 (J)	<0.1					
6/2/2016								<0.1	
6/6/2016	<0.1	<0.1							
6/7/2016					<0.1	<0.1			
7/25/2016				0.06 (J)				0.06 (J)	
7/26/2016			0.08 (J)						
7/27/2016	<0.1	<0.1			<0.1				
7/28/2016							0.02 (J)		
9/13/2016			0.11 (J)	<0.1					
9/14/2016								0.08 (J)	
9/16/2016		<0.1							
9/19/2016	<0.1				<0.1	0.02 (J)		<0.1	
11/1/2016			<0.1					<0.1	
11/2/2016					<0.1				
11/3/2016	<0.1	<0.1				<0.1			
11/4/2016				<0.1			<0.1		
12/15/2016							0.06 (J)		
1/11/2017	<0.1	<0.1	0.05 (J)						
1/13/2017					<0.1	<0.1			
1/16/2017				<0.1			0.1 (J)	<0.1	
2/21/2017								<0.1	
3/1/2017	<0.1	<0.1							
3/2/2017			<0.1	<0.1					
3/3/2017							<0.1		
3/6/2017					<0.1	<0.1			
4/26/2017	<0.1	<0.1			<0.1	0.04 (J)		<0.1	
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	<0.1	<0.1					0.11 (J)		
6/29/2017					<0.1	<0.1			
6/30/2017								<0.1	
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								
10/11/2017									<0.1
11/20/2017									<0.1
1/11/2018									<0.1
2/20/2018									0.23
3/27/2018				<0.1				<0.1	
3/28/2018	<0.1	<0.1					0.31		
3/29/2018			<0.1		<0.1	<0.1			
4/3/2018									<0.1
6/5/2018			0.055 (J)			0.13 (J)			
6/6/2018				<0.1	<0.1				
6/7/2018	<0.1						0.11 (J)		
6/11/2018		<0.1						<0.1	
6/28/2018									<0.1
8/7/2018									0.048 (J)
9/24/2018									<0.1
9/25/2018	<0.1	<0.1			<0.1	0 (J)			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
10/1/2018			<0.1	<0.1			<0.1		
10/2/2018								<0.1	
2/26/2019								<0.1	
2/27/2019			0.052 (J)	<0.1			0.12 (J)		
3/5/2019		<0.1			<0.1	0.32			
3/6/2019	<0.1								
3/27/2019									<0.1
3/28/2019			0.036 (J)	<0.1					
3/29/2019							0.13 (J)		
4/1/2019								<0.1	
4/2/2019						0.12 (J)			
4/3/2019	<0.1	<0.1			<0.1				
8/21/2019									<0.1
9/24/2019			0.063 (J)	<0.1		0.15 (J)	0.081 (J)		
9/25/2019					<0.1			<0.1	
9/26/2019	<0.1	<0.1							
10/9/2019									<0.1
2/10/2020			0.061 (J)	<0.1					
2/11/2020	<0.1	<0.1					0.075 (J)		
2/12/2020					<0.1	0.1 (J)		<0.1	<0.1
3/18/2020				<0.1					
3/19/2020			0.064 (J)				0.093 (J)	<0.1	
3/24/2020	<0.1	<0.1			<0.1	0.081 (J)			
3/25/2020									<0.1
9/23/2020	<0.1	<0.1	0.058 (J)	<0.1			0.08 (J)		
9/24/2020					<0.1	0.079 (J)		<0.1	<0.1
2/9/2021	<0.1	<0.1			<0.1	0.092 (J)			
2/10/2021							0.094 (J)		<0.1
2/11/2021								<0.1	
2/12/2021			0.068 (J)	<0.1					
3/1/2021								<0.1	
3/3/2021	<0.1	<0.1	0.078 (J)	<0.1	<0.1		0.085 (J)		
3/4/2021						0.091 (J)			<0.1
8/19/2021			0.074 (J)	<0.1				<0.1	
8/26/2021		<0.1							0.063 (J)
8/27/2021	<0.1				<0.1		0.12		
9/1/2021						0.11			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		0.15 (J)					
6/2/2016	0.62				<0.1	0.11 (J)	<0.1
7/25/2016		0.14 (J)					
7/26/2016	0.49				<0.1	0.05 (J)	<0.1
8/30/2016				0.09 (J)			
9/14/2016		0.18 (J)			<0.1	0.04 (J)	<0.1
9/15/2016	0.54						
11/1/2016	0.68	<0.1					
11/2/2016					<0.1	<0.1	
11/4/2016							<0.1
11/14/2016				0.18 (J)			
1/11/2017	0.49	0.09 (J)					
1/12/2017						0.04 (J)	<0.1
1/13/2017					<0.1		
2/24/2017				0.05 (J)			
3/1/2017		<0.1					
3/2/2017	0.48						
3/6/2017					<0.1		
3/7/2017						<0.1	<0.1
4/26/2017	0.48	0.08 (J)					
5/1/2017					<0.1	<0.1	
5/2/2017							<0.1
5/8/2017				0.03 (J)			
6/27/2017						<0.1	<0.1
6/28/2017	0.47	0.12 (J)					
6/29/2017					<0.1		
7/11/2017				0.07 (J)			
10/3/2017						<0.1	<0.1
10/4/2017	<0.1	<0.1					
10/5/2017					<0.1		
10/10/2017				<0.1			
10/12/2017			<0.1				
11/20/2017			<0.1				
1/10/2018			<0.1				
2/19/2018			<0.1				
3/28/2018	0.56	<0.1					
3/29/2018					<0.1	<0.1	<0.1
4/2/2018				<0.1			
4/3/2018			<0.1				
6/6/2018						0.15 (J)	
6/7/2018	0.48				<0.1		<0.1
6/8/2018		0.2 (J)					
6/28/2018			<0.1				
8/7/2018			<0.1				
9/19/2018				<0.1			
9/24/2018			<0.1				
9/26/2018					<0.1	<0.1	<0.1
10/1/2018	0.44	<0.1					
2/27/2019	0.53	0.13 (J)					
3/4/2019					<0.1	0.19 (J)	<0.1
3/26/2019			<0.1				
3/27/2019				0.081 (J)			

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
4/1/2019	0.45	0.1 (J)					
4/3/2019					<0.1	0.047 (J)	<0.1
8/20/2019				<0.1			
8/21/2019			<0.1				
9/24/2019						0.05 (J)	<0.1
9/25/2019	0.46	0.1 (J)			<0.1		
10/8/2019				0.034 (J)			
10/9/2019			<0.1				
2/11/2020		0.094 (J)					
2/12/2020	0.4		<0.1		<0.1	<0.1	<0.1
3/17/2020				<0.1			
3/19/2020	0.51	0.11 (J)					
3/24/2020			<0.1			<0.1	<0.1
3/25/2020					<0.1		
8/27/2020				<0.1			
9/22/2020				<0.1	<0.1	0.056 (J)	<0.1
9/23/2020	0.47	0.098 (J)					
9/24/2020			<0.1				
2/8/2021						0.055 (J)	<0.1
2/9/2021					<0.1		
2/10/2021	0.43	<0.1	<0.1				
3/1/2021				<0.1			
3/2/2021						<0.1	<0.1
3/3/2021	0.44	0.1			<0.1		
3/4/2021			<0.1				
8/19/2021	0.47			<0.1			
8/26/2021					<0.1	0.061 (J)	<0.1
8/27/2021		0.12					
9/3/2021			<0.1				

Time Series

Constituent: Lead (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
9/9/1998	0.006								
9/20/1999	<0.001								
9/12/2001	0.0042								
9/3/2002	<0.001								
7/29/2003	0.015								
12/5/2003	<0.001								
9/22/2004	<0.001								
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							
9/9/2009								<0.001	
11/18/2009		<0.001						<0.001	
1/5/2010								<0.001	
3/3/2010		<0.001						<0.001	
9/7/2010								<0.001	
9/8/2010		<0.001							
11/22/2010				<0.001		<0.001			
1/4/2011				<0.001		<0.001			
2/17/2011				<0.001		<0.001			
3/10/2011		<0.001							<0.001
3/11/2011				<0.001		<0.001			
3/28/2011				<0.001		<0.001			
9/7/2011				<0.001	<0.001	<0.001	<0.001		
9/8/2011	<0.001	<0.001	<0.001					<0.001	
3/4/2012						<0.001			
3/5/2012	<0.001	<0.001			<0.001		<0.001	<0.001	
3/6/2012				<0.001					
9/5/2012		<0.001			<0.001		<0.001	<0.001	
9/10/2012	<0.001					<0.001			
9/11/2012				<0.001					
2/5/2013			<0.001				<0.001	<0.001	
2/6/2013	<0.001			<0.001	<0.001	<0.001			
8/12/2013	<0.001								
8/13/2013			<0.001	<0.001	<0.001				<0.001
8/14/2013						<0.001	<0.001		
2/4/2014			<0.001	<0.001		<0.001		<0.001	
2/5/2014	<0.001				<0.001		<0.001		
8/4/2014					<0.001	<0.001	<0.001		
8/5/2014	<0.001	<0.001	<0.001	<0.001				<0.001	
2/2/2015			<0.001	<0.001		<0.001			
2/3/2015					<0.001		<0.001	<0.001	
2/4/2015	<0.001								
8/3/2015	<0.001				<0.001 (D)	<0.001 (D)	<0.001 (D)		
8/4/2015			<0.001 (D)	<0.001				<0.001	
2/16/2016	<0.001	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001	
2/17/2016				<0.001					
6/2/2016									<0.001
7/26/2016									<0.001
8/31/2016	<0.001	<0.001	<0.001	<0.001	0.0001 (J)				
9/1/2016						<0.001	<0.001	<0.001	

Time Series

Constituent: Lead (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016				0.00056 (J)	<0.001				
6/2/2016									<0.001
6/6/2016		<0.001	<0.001						
6/7/2016	<0.001					<0.001	<0.001		
7/25/2016					<0.001				<0.001
7/26/2016				<0.001					
7/27/2016	<0.001	<0.001	<0.001			<0.001			
7/28/2016							<0.001		
9/13/2016				0.0001 (J)	<0.001				
9/14/2016								<0.001	
9/16/2016	<0.001		<0.001						
9/19/2016		<0.001				<0.001	<0.001		<0.001
11/1/2016				<0.001					<0.001
11/2/2016						0.0013 (J)			
11/3/2016	<0.001	<0.001	<0.001				<0.001		
11/4/2016					<0.001			<0.001	
12/15/2016								<0.001	
1/11/2017	<0.001	<0.001	<0.001	<0.001					
1/13/2017						<0.001	<0.001		
1/16/2017					<0.001			<0.001	<0.001
2/21/2017									<0.001
3/1/2017		<0.001	<0.001						
3/2/2017	8E-05 (J)			0.0001 (J)	<0.001				
3/3/2017								<0.001	
3/6/2017						<0.001	<0.001		
4/26/2017		<0.001	<0.001			<0.001	<0.001		<0.001
4/27/2017				<0.001	<0.001				
4/28/2017								<0.001	
5/2/2017	<0.001								
5/26/2017								<0.001	
6/27/2017				<0.001	<0.001				
6/28/2017		<0.001	0.0001 (J)					<0.001	
6/29/2017	8E-05 (J)					<0.001	<0.001		
6/30/2017									<0.001
3/27/2018					<0.001				<0.001
3/28/2018	<0.001	<0.001	<0.001					<0.001	
3/29/2018				<0.001		<0.001	<0.001		
2/26/2019									<0.001
2/27/2019				<0.001	<0.001			<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			
9/24/2019							<0.001		
9/25/2019	<0.001					<0.001			
9/26/2019		<0.001	<0.001						
2/10/2020				4.9E-05 (J)	<0.001				
2/11/2020	<0.001	<0.001	<0.001					<0.001	
2/12/2020						<0.001	<0.001		<0.001
3/18/2020					<0.001				
3/19/2020				0.00012 (J)				<0.001	<0.001
3/24/2020	6.4E-05 (J)	7.1E-05 (J)	5.4E-05 (J)			0.00011 (J)	<0.001		

Time Series

Constituent: Lead (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
9/23/2020	4.1E-05 (J)	6E-05 (J)	9.7E-05 (J)	<0.001	0.00021 (J)			0.0011 (J)	
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								0.00015 (J)	
2/11/2021									4.6E-05 (J)
2/12/2021				4.4E-05 (J)	0.00038 (J)				
3/1/2021									<0.001
3/3/2021	<0.001	<0.001	7.6E-05 (J)	5.6E-05 (J)	<0.001	4.5E-05 (J)		<0.001	
3/4/2021							<0.001		
8/19/2021				<0.001	<0.001				<0.001
8/26/2021			<0.001						
8/27/2021	<0.001	<0.001				<0.001		<0.001	
9/1/2021							<0.001		

Time Series

Constituent: Lead (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016			<0.001					
6/2/2016		0.00056 (J)				<0.001	<0.001	<0.001
7/25/2016			<0.001					
7/26/2016		0.0001 (J)				<0.001	<0.001	<0.001
8/30/2016					<0.001			
9/14/2016			<0.001			<0.001	<0.001	<0.001
9/15/2016		0.0002 (J)						
11/1/2016		<0.001	<0.001					
11/2/2016						<0.001	<0.001	
11/4/2016								<0.001
11/14/2016					<0.001			
1/11/2017		<0.001	<0.001					
1/12/2017							<0.001	<0.001
1/13/2017						<0.001		
2/24/2017					<0.001			
3/1/2017			<0.001					
3/2/2017		0.0002 (J)						
3/6/2017						<0.001		
3/7/2017							0.0001 (J)	7E-05 (J)
4/26/2017		<0.001	<0.001					
5/1/2017						<0.001	<0.001	
5/2/2017								<0.001
5/8/2017					<0.001			
6/27/2017							<0.001	<0.001
6/28/2017		<0.001	<0.001					
6/29/2017						<0.001		
7/11/2017					<0.001			
10/10/2017					<0.001			
10/11/2017	0.0001 (J)							
10/12/2017				9E-05 (J)				
11/20/2017	<0.001			<0.001				
1/10/2018				<0.001				
1/11/2018	0.0002 (J)							
2/19/2018				<0.001				
2/20/2018	<0.001							
3/28/2018		<0.001	<0.001					
3/29/2018						<0.001	<0.001	<0.001
4/2/2018					<0.001			
4/3/2018	<0.001			<0.001				
6/28/2018	<0.001			<0.001				
8/7/2018	<0.001			<0.001				
9/19/2018					<0.001			
9/24/2018	<0.001			<0.001				
2/27/2019		<0.001	<0.001					
3/4/2019						<0.001	<0.001	<0.001
4/3/2019						<0.001	<0.001	<0.001
8/20/2019					<0.001			
8/21/2019	<0.001			<0.001				
9/24/2019							<0.001	9E-05 (J)
9/25/2019						<0.001		
10/9/2019	<0.001			<0.001				
2/11/2020			<0.001					

Time Series

Constituent: Lead (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
2/12/2020	<0.001	<0.001		<0.001		<0.001	<0.001	<0.001
3/19/2020		0.00017 (J)	<0.001					
3/24/2020				<0.001			5.4E-05 (J)	6.8E-05 (J)
3/25/2020	5.1E-05 (J)					<0.001		
8/27/2020					<0.001			
9/22/2020					<0.001	<0.001	4.5E-05 (J)	4.2E-05 (J)
9/23/2020		<0.001	0.00015 (J)					
9/24/2020	<0.001			3.8E-05 (J)				
2/8/2021							0.00013 (J)	3.7E-05 (J)
2/9/2021						<0.001		
2/10/2021	<0.001	<0.001	<0.001	<0.001				
3/1/2021					<0.001			
3/2/2021							5.1E-05 (J)	9.2E-05 (J)
3/3/2021		<0.001	<0.001			<0.001		
3/4/2021	<0.001			<0.001				
8/19/2021		<0.001			<0.001			
8/26/2021	<0.001					<0.001	<0.001	<0.001
8/27/2021			<0.001					
9/3/2021				<0.001				

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
6/2/2016								<0.03	
6/7/2016									<0.03
7/26/2016								<0.03	
7/27/2016									<0.03
8/31/2016	<0.03	0.0024 (J)	<0.03	<0.03					
9/1/2016					<0.03	<0.03	<0.03		
9/15/2016								<0.03	
9/16/2016									<0.03
11/2/2016								<0.03	
11/3/2016									<0.03
11/28/2016	<0.03		<0.03						
11/29/2016		<0.03					<0.03		
11/30/2016				<0.03	<0.03				
12/1/2016						<0.03			
1/10/2017								<0.03	
1/11/2017									0.0035 (J)
2/22/2017	<0.03		0.0036 (J)						
2/23/2017		<0.03		<0.03			0.0028 (J)		
2/24/2017					<0.03	<0.03			
3/2/2017									<0.03
3/8/2017								<0.03	
4/26/2017								<0.03	
5/2/2017									<0.03
5/8/2017	0.0014 (J)								
5/9/2017		0.002 (J)		<0.03					
5/10/2017			0.0035 (J)		<0.03	<0.03	0.0054 (J)		
6/29/2017									<0.03
6/30/2017								<0.03	
7/17/2017	<0.03					<0.03			
7/18/2017		<0.03	0.0035 (J)	<0.03	<0.03		0.002 (J)		
10/16/2017	0.0016 (J)					<0.03			
10/17/2017		0.0016 (J)	0.0035 (J)			<0.03			
10/18/2017				<0.03			0.0026 (J)		
2/19/2018	<0.03						<0.03		
2/20/2018			<0.03		<0.03				
2/21/2018		0.0014 (J)		<0.03		<0.03			
3/27/2018								<0.03	
3/28/2018									<0.03
6/8/2018								<0.03	
6/11/2018									<0.03
8/6/2018	<0.03						<0.03		
8/7/2018		0.001 (J)		<0.03		<0.03			
8/8/2018			0.0031 (J)		<0.03				
9/25/2018									<0.03
10/1/2018								<0.03	
2/26/2019								<0.03	
3/5/2019									<0.03
3/29/2019								<0.03	
4/2/2019									<0.03
8/19/2019	0.0019 (J)				0.00094 (J)				
8/20/2019		0.0012 (J)	0.0043 (J)				0.002 (J)		
8/21/2019				<0.03		0.0015 (J)			

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
6/1/2016			0.015	<0.03					
6/2/2016								<0.03	
6/6/2016	0.0088	0.015							
6/7/2016					<0.03	0.0055			
7/25/2016				0.002 (J)				<0.03	
7/26/2016			0.0135 (J)						
7/27/2016	0.0087 (J)	0.0049 (J)			<0.03				
7/28/2016						0.0045 (J)			
9/13/2016			0.0112 (J)	<0.03					
9/14/2016							0.004 (J)		
9/16/2016		0.0031 (J)							
9/19/2016	0.0043 (J)				<0.03	0.0054 (J)		<0.03	
11/1/2016			0.0163 (J)					<0.03	
11/2/2016					<0.03				
11/3/2016	<0.03	0.0021 (J)				<0.03			
11/4/2016				<0.03			<0.03		
12/15/2016							0.0026 (J)		
1/11/2017	0.0052 (J)	0.0025 (J)	0.0166 (J)						
1/13/2017					<0.03	0.0062 (J)			
1/16/2017				0.0023 (J)			0.0023 (J)	<0.03	
2/21/2017								<0.03	
3/1/2017	0.0053 (J)	0.0029 (J)							
3/2/2017			0.0159 (J)	0.0025 (J)					
3/3/2017							0.0013 (J)		
3/6/2017					<0.03	0.0059 (J)			
4/26/2017	0.0041 (J)	0.0019 (J)			<0.03	0.0054 (J)		<0.03	
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	0.0039 (J)	0.0016 (J)					0.0026 (J)		
6/29/2017					<0.03	0.0047 (J)			
6/30/2017								<0.03	
10/11/2017									0.0018 (J)
11/20/2017									0.0018 (J)
1/11/2018									0.0019 (J)
2/20/2018									<0.03
3/27/2018				0.0023 (J)				0.0011 (J)	
3/28/2018	0.0041 (J)	0.0024 (J)					0.0025 (J)		
3/29/2018			0.0078 (J)		<0.03	0.0062 (J)			
4/3/2018									0.0022 (J)
6/5/2018			0.0079 (J)			0.0061 (J)			
6/6/2018				0.0024 (J)	<0.03				
6/7/2018	0.0032 (J)						0.0017 (J)		
6/11/2018		0.0014 (J)						0.0012 (J)	
6/28/2018									0.0026 (J)
8/7/2018									0.0024 (J)
9/24/2018									0.0022 (J)
9/25/2018	0.0036 (J)	0.0016 (J)			<0.03	0.0062 (J)			
10/1/2018			0.0053 (J)	0.0023 (J)			<0.03		
10/2/2018								<0.03	
2/26/2019								0.0011 (J)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
2/27/2019			0.0093 (J)	0.0023 (J)			0.0011 (J)		
3/5/2019		0.0031 (J)			<0.03	0.0053 (J)			
3/6/2019	0.0033 (J)								
3/28/2019			0.013 (J)	0.0022 (J)					
3/29/2019							0.0016 (J)		
4/1/2019								0.001 (J)	
4/2/2019						0.0051 (J)			
4/3/2019	0.0035 (J)	0.0028 (J)			<0.03				
8/21/2019									0.0035 (J)
9/24/2019			0.0046 (J)	0.0023 (J)		0.0068 (J)	0.0011 (J)		
9/25/2019					<0.03			0.0011 (J)	
9/26/2019	0.0032 (J)	0.0029 (J)							
10/9/2019									0.0036 (J)
2/10/2020			0.011 (J)	0.0023 (J)					
2/11/2020	0.0033 (J)	0.005 (J)					0.0012 (J)		
2/12/2020					<0.03	0.0065 (J)		0.0013 (J)	0.0041 (J)
3/18/2020				0.0024 (J)					
3/19/2020			0.013 (J)				0.0022 (J)	0.0012 (J)	
3/24/2020	0.0033 (J)	0.0035 (J)			<0.03	0.0064 (J)			
3/25/2020									0.0049 (J)
9/23/2020	0.003 (J)	0.0022 (J)	0.014 (J)	0.0024 (J)			0.0016 (J)		
9/24/2020					<0.03	0.0069 (J)		0.0011 (J)	0.0054 (J)
2/9/2021	0.0031 (J)	0.0019 (J)			<0.03	0.006 (J)			
2/10/2021							0.0039 (J)		0.0071 (J)
2/11/2021								0.0012 (J)	
2/12/2021			0.01 (J)	0.0025 (J)					
3/1/2021								0.0011 (J)	
3/3/2021	0.0034 (J)	0.0021 (J)	0.012 (J)	0.0025 (J)	<0.03		0.0016 (J)		
3/4/2021						0.0062 (J)			0.0084 (J)
8/19/2021			0.013 (J)	0.0023 (J)				0.0012 (J)	
8/26/2021		0.0019 (J)							0.0082 (J)
8/27/2021	0.0032 (J)				<0.03		0.0058 (J)		
9/1/2021						0.0057 (J)			

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		0.01					
6/2/2016	0.018				0.013	0.0049 (J)	<0.03
7/25/2016		0.0132 (J)					
7/26/2016	0.0221 (J)				0.0123 (J)	0.0063 (J)	0.0027 (J)
8/30/2016				0.0061 (J)			
9/14/2016		0.012 (J)			0.0137 (J)	0.0058 (J)	0.0029 (J)
9/15/2016	0.0197 (J)						
11/1/2016	0.0194 (J)	0.0115 (J)					
11/2/2016					0.0136 (J)	0.0053 (J)	
11/4/2016							<0.03
11/14/2016				0.0064 (J)			
1/11/2017	0.0177 (J)	0.0085 (J)					
1/12/2017						0.0054 (J)	0.0032 (J)
1/13/2017					0.0121 (J)		
2/24/2017				0.0049 (J)			
3/1/2017		0.0114 (J)					
3/2/2017	0.0185 (J)						
3/6/2017					0.0143 (J)		
3/7/2017						0.0056 (J)	0.0035 (J)
4/26/2017	0.0183 (J)	0.0092 (J)					
5/1/2017					0.0132 (J)	0.0031 (J)	
5/2/2017							0.0031 (J)
5/8/2017				0.0053 (J)			
6/27/2017						0.0018 (J)	0.0029 (J)
6/28/2017	0.0173 (J)	0.0085 (J)					
6/29/2017					0.0145 (J)		
7/11/2017				0.0051 (J)			
10/10/2017				0.0043 (J)			
10/12/2017			<0.03				
11/20/2017			<0.03				
1/10/2018			<0.03				
2/19/2018			<0.03				
3/28/2018	0.02 (J)	0.013 (J)					
3/29/2018					0.014 (J)	0.0058 (J)	0.0034 (J)
4/2/2018				0.0045 (J)			
4/3/2018			<0.03				
6/6/2018						0.0068 (J)	
6/7/2018	0.02 (J)				0.013 (J)		0.0032 (J)
6/8/2018		0.012 (J)					
6/28/2018			<0.03				
8/7/2018			<0.03				
9/19/2018				0.0043 (J)			
9/24/2018			<0.03				
9/26/2018					0.014 (J)	0.0065 (J)	0.0032 (J)
10/1/2018	0.02 (J)	0.011 (J)					
2/27/2019	0.021 (J)	0.014 (J)					
3/4/2019					0.015 (J)	0.0065 (J)	0.0032 (J)
4/1/2019	0.021 (J)	0.013 (J)					
4/3/2019					0.014 (J)	0.007 (J)	0.0035 (J)
8/20/2019				0.0036 (J)			
8/21/2019			<0.03				
9/24/2019						0.0065 (J)	0.0031 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
9/25/2019	0.02 (J)	0.01 (J)			0.014 (J)		
10/8/2019				0.0036 (J)			
10/9/2019			<0.03				
2/11/2020		0.013 (J)					
2/12/2020	0.019 (J)		<0.03		0.011 (J)	0.0066 (J)	0.0032 (J)
3/17/2020				0.0046 (J)			
3/19/2020	0.023 (J)	0.014 (J)					
3/24/2020			<0.03			0.0064 (J)	0.0033 (J)
3/25/2020					0.014 (J)		
8/27/2020				0.0039 (J)			
9/22/2020				0.0036 (J)	0.013 (J)	0.0066 (J)	0.0034 (J)
9/23/2020	0.023 (J)	0.013 (J)					
9/24/2020			<0.03				
2/8/2021						0.0063 (J)	0.0032 (J)
2/9/2021					0.011 (J)		
2/10/2021	0.023 (J)	0.015 (J)	<0.03				
3/1/2021				0.0037 (J)			
3/2/2021						0.0018 (J)	0.0031 (J)
3/3/2021	0.024 (J)	0.017 (J)			0.012 (J)		
3/4/2021			<0.03				
8/19/2021	0.023 (J)			0.0038 (J)			
8/26/2021					0.0094 (J)	0.0075 (J)	0.0032 (J)
8/27/2021		0.026 (J)					
9/3/2021			<0.03				

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (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								
9/9/2009							<0.0002		
11/18/2009	<0.0002						<0.0002		
1/5/2010							<0.0002		
3/3/2010	<0.0002						<0.0002		
9/7/2010							<0.0002		
9/8/2010	<0.0002								
11/22/2010			<0.0002		<0.0002				
1/4/2011			<0.0002		<0.0002				
2/17/2011			<0.0002		<0.0002				
3/10/2011	<0.0002						<0.0002		
3/11/2011			<0.0002		<0.0002				
3/28/2011			<0.0002		<0.0002				
9/7/2011			<0.0002	<0.0002	<0.0002	<0.0002			
9/8/2011	<0.0002	<0.0002					<0.0002		
3/4/2012					<0.0002				
3/5/2012	<0.0002	<0.0002		<0.0002		<0.0002	<0.0002		
3/6/2012			<0.0002						
9/5/2012		<0.0002		<0.0002		<0.0002	<0.0002		
9/10/2012	<0.0002				<0.0002				
9/11/2012			<0.0002						
2/5/2013		<0.0002				<0.0002	<0.0002		
2/6/2013	<0.0002		<0.0002	<0.0002	0.00014				
8/12/2013	<0.0002								
8/13/2013		<0.0002	<0.0002	<0.0002				<0.0002	
8/14/2013					<0.0002	<0.0002			
2/4/2014		<0.0002	<0.0002		<0.0002		<0.0002		
2/5/2014	<0.0002			<0.0002		<0.0002			
8/4/2014				<0.0002	<0.0002	<0.0002			
8/5/2014	<0.0002	<0.0002	<0.0002					<0.0002	
2/2/2015		<0.0002	<0.0002		<0.0002				
2/3/2015				<0.0002		<0.0002	<0.0002		
2/4/2015	<0.0002								
8/3/2015	<0.0002			<0.0002 (D)	<0.0002 (D)	<0.0002 (D)			
8/4/2015		<0.0002 (D)	<0.0002				<0.0002		
2/16/2016	1.36E-05 (J)	<0.0002		1.34E-05 (J)	<0.0002	<0.0002	1.13E-05 (J)		
2/17/2016			<0.0002						
6/2/2016							<0.0002		
6/7/2016									9.5E-05 (J)
7/26/2016							<0.0002		
7/27/2016									<0.0002
8/31/2016	<0.0002	<0.0002	<0.0002	<0.0002					
9/1/2016					<0.0002	<0.0002	<0.0002		
9/15/2016							<0.0002		
9/16/2016									<0.0002
11/2/2016							<0.0002		
11/3/2016									<0.0002
11/28/2016	<0.0002		<0.0002						

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
11/29/2016		<0.0002					<0.0002		
11/30/2016				<0.0002	<0.0002				
12/1/2016						<0.0002			
1/10/2017								<0.0002	
1/11/2017									<0.0002
2/22/2017	<0.0002		<0.0002						
2/23/2017		<0.0002		<0.0002			<0.0002		
2/24/2017					<0.0002	<0.0002			
3/2/2017									<0.0002
3/8/2017								<0.0002	
4/26/2017								<0.0002	
5/2/2017									<0.0002
5/8/2017	<0.0002								
5/9/2017		<0.0002		<0.0002					
5/10/2017			<0.0002		<0.0002	<0.0002	<0.0002		
6/29/2017									<0.0002
6/30/2017								<0.0002	
7/17/2017	<0.0002					<0.0002			
7/18/2017		<0.0002	<0.0002	<0.0002	<0.0002		<0.0002		
10/16/2017	<0.0002					<0.0002			
10/17/2017		<0.0002	<0.0002		<0.0002				
10/18/2017				<0.0002			<0.0002		
2/19/2018	<0.0002						<0.0002		
2/20/2018			<0.0002		<0.0002				
2/21/2018		<0.0002		<0.0002		<0.0002			
3/27/2018								<0.0002	
3/28/2018									<0.0002
8/6/2018	<0.0002						<0.0002		
8/7/2018		<0.0002		<0.0002		<0.0002			
8/8/2018			<0.0002		<0.0002				
9/25/2018									<0.0002
2/25/2019	7.4E-05 (J)						6.7E-05 (J)		
2/26/2019		5.9E-05 (J)	7.1E-05 (J)	6.4E-05 (J)	5.8E-05 (J)	6E-05 (J)	6.1E-05 (J)		
3/5/2019									<0.0002
3/29/2019								<0.0002	
6/12/2019	<0.0002		<0.0002		<0.0002				
6/13/2019		<0.0002		<0.0002		<0.0002	<0.0002		
8/19/2019	<0.0002				<0.0002				
8/20/2019		<0.0002	<0.0002				<0.0002		
8/21/2019				<0.0002		<0.0002			
9/25/2019								<0.0002	
10/8/2019	<0.0002						<0.0002		
10/9/2019		<0.0002	<0.0002			<0.0002			
10/10/2019				0.00043 (J)	<0.0002				
2/11/2020									<0.0002
2/12/2020								<0.0002	
5/6/2020	<0.0002	<0.0002					<0.0002		
5/7/2020			<0.0002	<0.0002	<0.0002	<0.0002			
8/26/2020	<0.0002								
8/27/2020		<0.0002				<0.0002	<0.0002		
8/28/2020			<0.0002	<0.0002	<0.0002				
9/22/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002				

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
6/1/2016			<0.0002	<0.0002					
6/2/2016								<0.0002	
6/6/2016	<0.0002	<0.0002							
6/7/2016					9.6E-05 (J)	9.6E-05 (J)			
7/25/2016				<0.0002				<0.0002	
7/26/2016			<0.0002						
7/27/2016	<0.0002	<0.0002			<0.0002				
7/28/2016							<0.0002		
9/13/2016			<0.0002	<0.0002					
9/14/2016							<0.0002		
9/16/2016		<0.0002							
9/19/2016	<0.0002				<0.0002	<0.0002		<0.0002	
11/1/2016			<0.0002					<0.0002	
11/2/2016					<0.0002				
11/3/2016	<0.0002	<0.0002				<0.0002			
11/4/2016				<0.0002			<0.0002		
12/15/2016							<0.0002		
1/11/2017	<0.0002	<0.0002	<0.0002						
1/13/2017					<0.0002	<0.0002			
1/16/2017				<0.0002			<0.0002	<0.0002	
2/21/2017								<0.0002	
3/1/2017	<0.0002	<0.0002							
3/2/2017			<0.0002	<0.0002					
3/3/2017							<0.0002		
3/6/2017					<0.0002	<0.0002			
4/26/2017	<0.0002	<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		
6/29/2017					<0.0002	<0.0002			
6/30/2017								<0.0002	
10/11/2017									<0.0002
11/20/2017									7E-05 (J)
1/11/2018									<0.0002
2/20/2018									<0.0002
3/27/2018				<0.0002				<0.0002	
3/28/2018	<0.0002	<0.0002					<0.0002		
3/29/2018			<0.0002		<0.0002	<0.0002			
4/3/2018									<0.0002
6/28/2018									<0.0002
8/7/2018									<0.0002
9/24/2018									<0.0002
9/25/2018	<0.0002	<0.0002			<0.0002	<0.0002			
2/26/2019								6.8E-05 (J)	
2/27/2019			5.1E-05 (J)	5.4E-05 (J)			<0.0002		
3/5/2019		<0.0002			<0.0002	<0.0002			
3/6/2019	<0.0002								
3/28/2019			4E-05 (J)	<0.0002					
3/29/2019							<0.0002		
4/1/2019								8.2E-05 (J)	

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
8/21/2019									<0.0002
9/24/2019			<0.0002	<0.0002			<0.0002		
9/25/2019								<0.0002	
2/10/2020			<0.0002	<0.0002					
2/11/2020	<0.0002	<0.0002					<0.0002		
2/12/2020					<0.0002	<0.0002		<0.0002	<0.0002
2/9/2021	<0.0002	<0.0002			<0.0002	<0.0002			
2/10/2021							<0.0002		<0.0002
2/11/2021								<0.0002	
2/12/2021			<0.0002	<0.0002					
3/3/2021	<0.0002	<0.0002			<0.0002				
3/4/2021						<0.0002			<0.0002
8/26/2021		<0.0002							<0.0002
8/27/2021	<0.0002				<0.0002				
9/1/2021						<0.0002			

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		<0.0002					
6/2/2016	<0.0002				<0.0002	<0.0002	<0.0002
7/25/2016		<0.0002					
7/26/2016	<0.0002				<0.0002	<0.0002	<0.0002
8/30/2016				<0.0002			
9/14/2016		<0.0002			<0.0002	<0.0002	<0.0002
9/15/2016	<0.0002						
11/1/2016	<0.0002	<0.0002					
11/2/2016					<0.0002	<0.0002	
11/4/2016							<0.0002
11/14/2016				<0.0002			
1/11/2017	<0.0002	<0.0002					
1/12/2017						<0.0002	<0.0002
1/13/2017					<0.0002		
2/24/2017				<0.0002			
3/1/2017		<0.0002					
3/2/2017	<0.0002						
3/6/2017					<0.0002		
3/7/2017						<0.0002	<0.0002
4/26/2017	<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
6/28/2017	<0.0002	<0.0002					
6/29/2017					<0.0002		
7/11/2017				<0.0002			
10/10/2017				<0.0002			
10/12/2017			<0.0002				
11/20/2017			8E-05 (J)				
1/10/2018			<0.0002				
2/19/2018			<0.0002				
3/28/2018	<0.0002	<0.0002					
3/29/2018					<0.0002	<0.0002	<0.0002
4/2/2018				<0.0002			
4/3/2018			<0.0002				
6/28/2018			3.6E-05 (J)				
8/7/2018			<0.0002				
9/19/2018				5.3E-05 (J)			
9/24/2018			<0.0002				
9/26/2018					<0.0002	<0.0002	<0.0002
2/27/2019	6.2E-05 (J)	6.1E-05 (J)					
3/4/2019					<0.0002	<0.0002	<0.0002
4/1/2019	9.6E-05 (J)	8.4E-05 (J)					
8/20/2019				<0.0002			
8/21/2019			<0.0002				
9/25/2019	<0.0002	<0.0002					
2/11/2020		<0.0002					
2/12/2020	<0.0002		<0.0002		<0.0002	<0.0002	<0.0002
8/27/2020				<0.0002			
2/8/2021						<0.0002	<0.0002
2/9/2021					<0.0002		

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
2/10/2021	<0.0002	<0.0002	<0.0002				
3/2/2021						<0.0002	<0.0002
3/3/2021					<0.0002		
3/4/2021			<0.0002				
8/19/2021				<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 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
6/2/2016								<0.01	
6/7/2016									<0.01
7/26/2016								<0.01	
7/27/2016									<0.01
8/31/2016	<0.01	<0.01	<0.01	<0.01					
9/1/2016					<0.01	<0.01	<0.01		
9/15/2016								<0.01	
9/16/2016									<0.01
11/2/2016								<0.01	
11/3/2016									<0.01
11/28/2016	<0.01		<0.01						
11/29/2016		<0.01					<0.01		
11/30/2016				<0.01	<0.01				
12/1/2016						<0.01			
1/10/2017								<0.01	
1/11/2017									<0.01
2/22/2017	<0.01		<0.01						
2/23/2017		<0.01		<0.01			<0.01		
2/24/2017					<0.01	<0.01			
3/2/2017									<0.01
3/8/2017								<0.01	
4/26/2017								<0.01	
5/2/2017									<0.01
5/8/2017	<0.01								
5/9/2017		<0.01		<0.01					
5/10/2017			<0.01		<0.01	<0.01	<0.01		
6/29/2017									<0.01
6/30/2017								<0.01	
7/17/2017	<0.01					<0.01			
7/18/2017		<0.01	<0.01	<0.01	<0.01		<0.01		
10/16/2017	<0.01					<0.01			
10/17/2017		<0.01	<0.01		<0.01				
10/18/2017				<0.01			<0.01		
2/19/2018	<0.01						<0.01		
2/20/2018			<0.01		<0.01				
2/21/2018		<0.01		<0.01		<0.01			
3/27/2018								<0.01	
3/28/2018									<0.01
6/8/2018								<0.01	
8/6/2018	<0.01						<0.01		
8/7/2018		<0.01		<0.01		<0.01			
8/8/2018			<0.01		<0.01				
10/1/2018								<0.01	
2/26/2019								<0.01	
3/5/2019									<0.01
3/29/2019								<0.01	
8/19/2019	<0.01				<0.01				
8/20/2019		<0.01	<0.01				<0.01		
8/21/2019				<0.01		<0.01			
9/25/2019								<0.01	
2/11/2020									<0.01
2/12/2020								<0.01	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
6/1/2016			0.014 (J)	0.012 (J)					
6/2/2016								<0.01	
6/6/2016	<0.01	<0.01							
6/7/2016					<0.01	<0.01			
7/25/2016				0.0098 (J)				<0.01	
7/26/2016			0.0132						
7/27/2016	<0.01	<0.01			<0.01				
7/28/2016						<0.01			
9/13/2016			0.0127	0.01 (J)					
9/14/2016							0.0039 (J)		
9/16/2016		<0.01							
9/19/2016	<0.01				<0.01	<0.01		<0.01	
11/1/2016			0.0092 (J)					<0.01	
11/2/2016					<0.01				
11/3/2016	<0.01	<0.01				<0.01			
11/4/2016				0.01			0.0077 (J)		
12/15/2016							0.0066 (J)		
1/11/2017	<0.01	<0.01	0.0093 (J)						
1/13/2017					<0.01	<0.01			
1/16/2017				0.0086 (J)			0.0056 (J)	<0.01	
2/21/2017								<0.01	
3/1/2017	<0.01	<0.01							
3/2/2017			0.0099 (J)	0.01					
3/3/2017							0.0049 (J)		
3/6/2017					<0.01	0.0007 (J)			
4/26/2017	<0.01	<0.01			<0.01	0.0008 (J)		<0.01	
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	<0.01	<0.01					0.0036 (J)		
6/29/2017					<0.01	<0.01			
6/30/2017								<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
3/27/2018				0.0074 (J)				<0.01	
3/28/2018	<0.01	<0.01					0.0038 (J)		
3/29/2018			0.0076 (J)		<0.01	<0.01			
4/3/2018									0.006 (J)
6/5/2018			0.0092 (J)						
6/6/2018				0.0073 (J)					
6/7/2018							0.004 (J)		
6/11/2018								<0.01	
6/28/2018									0.005 (J)
8/7/2018									0.0045 (J)
9/24/2018									0.0035 (J)
10/1/2018			0.0085 (J)	0.0076 (J)			0.0042 (J)		
10/2/2018								<0.01	
2/26/2019								<0.01	
2/27/2019			0.0087 (J)	0.0078 (J)			0.0041 (J)		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
3/5/2019		<0.01			<0.01	<0.01			
3/6/2019	<0.01								
3/28/2019			0.0092 (J)	0.0082 (J)					
3/29/2019							0.0041 (J)		
4/1/2019								<0.01	
8/21/2019									0.0021 (J)
9/24/2019			0.0072 (J)	0.0074 (J)			0.0054 (J)		
9/25/2019								<0.01	
10/9/2019									0.0018 (J)
2/10/2020			0.0087 (J)	0.0062 (J)					
2/11/2020	<0.01	<0.01					0.0057 (J)		
2/12/2020					<0.01	<0.01		<0.01	0.0025 (J)
3/18/2020				0.0056 (J)					
3/19/2020			0.0088 (J)				0.0046 (J)	<0.01	
3/24/2020	<0.01	<0.01			<0.01	<0.01			
3/25/2020									0.002 (J)
9/23/2020	<0.01	<0.01	0.008 (J)	0.0059 (J)			0.0071 (J)		
9/24/2020					<0.01	<0.01		<0.01	0.0016 (J)
2/9/2021	<0.01	<0.01			<0.01	<0.01			
2/10/2021							0.0041 (J)		0.0013 (J)
2/11/2021								<0.01	
2/12/2021			0.008 (J)	0.0056 (J)					
3/1/2021								<0.01	
3/3/2021	<0.01	<0.01	0.0088 (J)	0.0049 (J)	<0.01		0.0074 (J)		
3/4/2021						<0.01			0.0014 (J)
8/19/2021			0.0083 (J)	0.005 (J)				<0.01	
8/26/2021		<0.01							0.0027 (J)
8/27/2021	<0.01				<0.01		0.0048 (J)		
9/1/2021						<0.01			

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/29/2021 3:34 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		0.0055 (J)					
6/2/2016	0.0093 (J)				<0.01	0.0035 (J)	<0.01
7/25/2016		0.0037 (J)					
7/26/2016	0.0113				<0.01	0.0042 (J)	<0.01
8/30/2016				<0.01			
9/14/2016		0.0034 (J)			<0.01	0.0041 (J)	<0.01
9/15/2016	0.0112						
11/1/2016	0.0099 (J)	0.0025 (J)					
11/2/2016					<0.01	0.0039 (J)	
11/4/2016							<0.01
11/14/2016				<0.01			
1/11/2017	0.0093 (J)	0.0033 (J)					
1/12/2017						0.0041 (J)	<0.01
1/13/2017					<0.01		
2/24/2017				<0.01			
3/1/2017		0.0044 (J)					
3/2/2017	0.0103						
3/6/2017					<0.01		
3/7/2017						0.0047 (J)	<0.01
4/26/2017	0.01	0.0075 (J)					
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
6/28/2017	0.0102	0.008 (J)					
6/29/2017					<0.01		
7/11/2017				<0.01			
10/10/2017				<0.01			
10/12/2017			<0.01				
11/20/2017			<0.01				
1/10/2018			<0.01				
2/19/2018			<0.01				
3/28/2018	0.011	0.0025 (J)					
3/29/2018					<0.01	<0.01	<0.01
4/2/2018				<0.01			
4/3/2018			<0.01				
6/7/2018	0.011						
6/8/2018		0.0041 (J)					
6/28/2018			<0.01				
8/7/2018			<0.01				
9/19/2018				<0.01			
9/24/2018			<0.01				
10/1/2018	0.012	0.0037 (J)					
2/27/2019	0.011	0.0027 (J)					
3/4/2019					<0.01	<0.01	<0.01
4/1/2019	0.012	0.0021 (J)					
8/20/2019				<0.01			
8/21/2019			<0.01				
9/25/2019	0.012	0.0087 (J)					
10/8/2019				<0.01			
10/9/2019			<0.01				
2/11/2020		0.003 (J)					

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
2/12/2020	0.013		<0.01		<0.01	0.0011 (J)	<0.01
3/17/2020				<0.01			
3/19/2020	0.013	0.0043 (J)					
3/24/2020			<0.01			0.0011 (J)	<0.01
3/25/2020					<0.01		
8/27/2020				<0.01			
9/22/2020				<0.01	<0.01	0.00099 (J)	<0.01
9/23/2020	0.012	0.01					
9/24/2020			<0.01				
2/8/2021						0.0011 (J)	<0.01
2/9/2021					<0.01		
2/10/2021	0.014	0.0038 (J)	<0.01				
3/1/2021				<0.01			
3/2/2021						<0.01	<0.01
3/3/2021	0.013	0.0036 (J)			<0.01		
3/4/2021			<0.01				
8/19/2021	0.013			<0.01			
8/26/2021					<0.01	0.001 (J)	<0.01
8/27/2021		0.0099 (J)					
9/3/2021			<0.01				

Time Series

Constituent: Nickel (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
9/9/1998	<0.005							
9/20/1999	<0.005							
9/12/2001	<0.005							
9/3/2002	<0.005							
7/29/2003	0.0061							
12/5/2003	<0.005							
9/22/2004	<0.005							
5/1/2007		0.0061						
9/11/2007		0.021						
3/20/2008		<0.005						
8/27/2008		<0.005						
3/3/2009		0.005						
9/9/2009								<0.005
11/18/2009		0.0052						<0.005
1/5/2010								<0.005
3/3/2010		0.011						<0.005
9/7/2010								<0.005
9/8/2010		0.012						
11/22/2010				0.0096		<0.005		
1/4/2011				0.0084		<0.005		
2/17/2011				0.0088		<0.005		
3/10/2011		0.0032						<0.005
3/11/2011				0.0058		<0.005		
3/28/2011				0.0058		<0.005		
9/7/2011				0.005	0.0054	<0.005	<0.005	
9/8/2011		0.0046	0.009					<0.005
3/4/2012						<0.005		
3/5/2012		0.0053	0.0035		<0.005		<0.005	<0.005
3/6/2012				<0.005				
9/5/2012			0.0027		<0.005		<0.005	<0.005
9/10/2012		0.0074				<0.005		
9/11/2012				<0.005				
2/5/2013			0.0026				<0.005	<0.005
2/6/2013		0.0077		<0.005	<0.005	<0.005		
8/12/2013		0.016						
8/13/2013			<0.005	0.003	0.0032			<0.005
8/14/2013						<0.005	0.0032	
2/4/2014			<0.005	0.0026		0.0033		<0.005
2/5/2014		0.019			0.0039		0.0032	
8/4/2014					0.0024 (J)	0.0015 (J)	0.0059	
8/5/2014		0.0057	0.0013 (J)	0.0015 (J)				<0.005
2/2/2015			0.0023 (J)	<0.005		<0.005		
2/3/2015					<0.005		0.0013 (J)	<0.005
2/4/2015		0.0055						
8/3/2015		0.0055			<0.005 (D)	<0.005 (D)	0.0039 (D)	
8/4/2015			<0.005 (D)	<0.005				<0.005
2/16/2016		0.0039	<0.005		<0.005	<0.005	0.0036	<0.005
2/17/2016				<0.005				
2/22/2017		0.0051 (J)		0.0009 (J)				
2/23/2017			0.0026 (J)		<0.005			0.0015 (J)
2/24/2017						0.0021 (J)	0.0019 (J)	
2/19/2018		<0.005						<0.005

Time Series

Constituent: Nickel (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
2/20/2018				<0.005		<0.005		
2/21/2018			0.001 (J)		<0.005		0.0013 (J)	
8/6/2018		0.003 (J)						0.0026 (J)
8/7/2018			<0.005		<0.005		0.0019 (J)	
8/8/2018				<0.005		0.0012 (J)		
2/25/2019		0.0026 (J)						0.0023 (J)
2/26/2019			<0.005	0.0068 (J)	<0.005	<0.005	0.0023 (J)	
6/12/2019		0.0038 (J)		0.00043 (J)		0.00082 (J)		
6/13/2019			0.00072 (J)		<0.005		0.0019 (J)	0.0037 (J)
10/8/2019		0.0051 (J)						0.0021 (J)
10/9/2019			0.0015 (J)	0.00058 (J)			0.0019 (J)	
10/10/2019					<0.005	0.00084 (J)		
3/17/2020		0.0066	0.00087 (J)		0.00056 (J)			0.0011 (J)
3/18/2020				0.00063 (J)		0.0026 (J)	0.002 (J)	
9/22/2020		0.027	0.0021 (J)	<0.005	<0.005	0.00077 (J)		
9/23/2020							0.0012 (J)	0.0016 (J)
3/1/2021			0.0024 (J)	<0.005		0.0021 (J)		
3/2/2021		0.034			<0.005		0.0014 (J)	
3/3/2021								0.0016 (J)
8/18/2021			0.0028 (J)	<0.005	<0.005	0.0026 (J)	0.0016 (J)	0.0012 (J)
8/20/2021		0.014						

Time Series

Constituent: pH (S.U.) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
2/26/2019								5.77	
2/27/2019			6.84	5.8			7.27		
3/5/2019		5.26			6.07	7.22			
3/6/2019	5.99								
3/27/2019									5.84
3/28/2019			6.99	6.15					
3/29/2019							7.06		
4/1/2019								5.62	
4/2/2019						6.94			
4/3/2019	6.29	5.47			5.71				
8/21/2019									5.96
9/24/2019			7.07	6.23		6.87	7.01		
9/25/2019					5.86			5.69	
9/26/2019	6.04	5.2							
10/9/2019									5.81
2/10/2020			7.2	6.1					
2/11/2020	6.07	5.3					7.38		
2/12/2020					6	7.13		5.8	5.97
3/18/2020				6.19					
3/19/2020			7.03				7.22	6	
3/24/2020	5.98	5.33			5.86	6.35			
3/25/2020									5.78
9/23/2020	6.01	5.29	7.15	6.01			7.22		
9/24/2020					5.8	6.7		5.67	5.7
2/9/2021	6.12	5.43			5.86	6.95			
2/10/2021							7.29		5.8
2/11/2021								5.73	
2/12/2021			7.14	6.21					
3/1/2021								5.78	
3/3/2021	5.89	5.31	7.2	5.38	5.89		7.92		
3/4/2021						6.8			5.54
8/19/2021			6.32	6.38					
8/26/2021		4.4							6.91
8/27/2021	5.4				5.57		7.14		
9/1/2021						6.65			

Time Series

Constituent: pH (S.U.) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		7.72					
6/2/2016	7.84				6.36	7.67	5.75
7/25/2016		7.74					
7/26/2016	7.88				6.22	7.66	5.72
8/30/2016				5.75			
9/14/2016		7.65			6.23	7.6	5.74
9/15/2016	7.74						
11/1/2016	7.75	7.7					
11/2/2016					6.08	7.35	
11/4/2016							5.61
11/14/2016				5.59			
1/11/2017	7.66	7.53					
1/12/2017						7.49	5.71
1/13/2017					6.19		
2/24/2017				5.49			
3/1/2017		7.42					
3/2/2017	7.68						
3/6/2017					6.2		
3/7/2017						7.43	5.66
4/26/2017	7.45	7.4					
5/1/2017					6.21	7.22	
5/2/2017							5.65
5/8/2017				5.58			
6/27/2017						7.32	5.7
6/28/2017	7.65	7.5					
6/29/2017					6.21		
7/11/2017				5.58			
10/3/2017						7.48	5.79
10/4/2017	7.49	7.45					
10/5/2017					6.16		
10/10/2017				5.49			
10/12/2017			5.43				
11/20/2017			5.1				
1/10/2018			4.97				
2/19/2018			5.6				
3/28/2018	7.91	7.74					
3/29/2018					6.09	7.02	5.63
4/2/2018				6.3 (O)			
4/3/2018			5.84				
6/6/2018						7.43	
6/7/2018	7.69				6.12		5.63
6/8/2018		7.64					
6/28/2018			5.24				
8/7/2018			5.18				
9/19/2018				5.48			
9/24/2018			5.14				
9/26/2018					5.84	7.13	5.63
10/1/2018	7.39	7.47					
2/27/2019	7.55	7.54					
3/4/2019					6.18	7.46	5.75
3/26/2019			5.3				
3/27/2019				5.83			

Time Series

Constituent: pH (S.U.) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
4/1/2019	7.87	7.74					
4/3/2019					6.43	7.11	5.63
8/20/2019				5.58			
8/21/2019			5.26				
9/24/2019						6.93	5.6
9/25/2019	7.64	7.47			6.2		
10/8/2019				5.59			
10/9/2019			5.22				
2/11/2020		7.09					
2/12/2020	7.83		5.3		6.15	7.52	5.83
3/17/2020				5.57			
3/19/2020	7.65	7.31					
3/24/2020			5.29			7.34	5.81
3/25/2020					6.26		
8/27/2020				4.88			
9/22/2020				5.46	5.8	7.19	5.99
9/23/2020	7.57	7.37					
9/24/2020			5.43				
2/8/2021							5.67
2/9/2021					6.06		
2/10/2021	7.81	7.58	5.19				
3/1/2021				5.48			
3/2/2021						7.15	5.63
3/3/2021	8.39	8.23			6.21		
3/4/2021			5.23				
8/19/2021	5.34			5.5			
8/26/2021					5.82	7.16	5.51
8/27/2021		7.39					
9/3/2021			4.75				

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
9/9/1998	<0.005								
9/20/1999	<0.005								
9/12/2001	<0.005								
9/3/2002	<0.005								
7/29/2003	0.015								
12/5/2003	<0.005								
9/22/2004	<0.005								
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							
9/9/2009								<0.005	
11/18/2009		<0.005						<0.005	
1/5/2010								<0.005	
3/3/2010		<0.005						<0.005	
9/7/2010								<0.005	
9/8/2010		<0.005							
11/22/2010				<0.005		<0.005			
1/4/2011				<0.005		<0.005			
2/17/2011				<0.005		<0.005			
3/10/2011		<0.005							<0.005
3/11/2011				<0.005		<0.005			
3/28/2011				<0.005		<0.005			
9/7/2011				<0.005	<0.005	<0.005	<0.005		
9/8/2011		<0.005	<0.005						<0.005
3/4/2012						<0.005			
3/5/2012		<0.005	<0.005		<0.005		0.014		<0.005
3/6/2012				<0.005					
9/5/2012			<0.005		<0.005		0.012		<0.005
9/10/2012		<0.005				0.011			
9/11/2012				<0.005					
2/5/2013			<0.005				0.011		<0.005
2/6/2013		<0.005		<0.005	<0.005	0.011			
8/12/2013		<0.005							
8/13/2013			<0.005	<0.005	0.0057				<0.005
8/14/2013						0.013	0.025		
2/4/2014			<0.005	<0.005		0.017			<0.005
2/5/2014		<0.005			<0.005		0.02		
8/4/2014					<0.005	0.0085	0.032		
8/5/2014		<0.005	<0.005	<0.005					<0.005
2/2/2015			<0.005	<0.005		0.0089			
2/3/2015					<0.005		0.011		<0.005
2/4/2015		<0.005							
8/3/2015		<0.005			<0.005 (D)	0.0067 (D)	0.046 (D)		
8/4/2015			<0.005 (D)	<0.005					<0.005
2/16/2016		<0.005	<0.005		<0.005	0.0047 (J)	0.022		<0.005
2/17/2016				<0.005					
6/2/2016									0.0011 (J)
7/26/2016									0.0016 (J)
8/31/2016		<0.005	0.0039 (J)	0.0029 (J)	0.0038 (J)				
9/1/2016						0.0132	0.0212	0.002 (J)	

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
9/15/2016									0.0014 (J)
11/2/2016									<0.005
11/28/2016		<0.005		0.0019 (J)					
11/29/2016			0.0033 (J)					0.0017 (J)	
11/30/2016					0.0054 (J)	0.0046 (J)			
12/1/2016							0.0234		
1/10/2017									0.0012 (J)
2/22/2017		<0.005		0.0015 (J)					
2/23/2017			0.0097 (J)		0.002 (J)			0.0018 (J)	
2/24/2017						0.0108	0.0154		
3/8/2017									<0.005
4/26/2017									<0.005
5/8/2017		<0.005							
5/9/2017			0.0066 (J)		<0.005				
5/10/2017				0.0016 (J)		0.0054 (J)	0.0152	0.0023 (J)	
6/30/2017									<0.005
7/17/2017		<0.005					0.0136		
7/18/2017			0.0021 (J)	0.0024 (J)	0.0027 (J)	0.0047 (J)		0.0046 (J)	
10/16/2017		<0.005					0.0242		
10/17/2017			0.003 (J)	0.0028 (J)		0.004 (J)			
10/18/2017					0.0047 (J)			0.0037 (J)	
2/19/2018		<0.005						<0.005	
2/20/2018				<0.005		<0.005			
2/21/2018			<0.005		<0.005		0.0127		
3/27/2018									<0.005
8/6/2018		<0.005						0.0047 (J)	
8/7/2018			<0.005		0.0016 (J)		0.021		
8/8/2018				0.0025 (J)		0.0041 (J)			
2/25/2019		<0.005						0.0051 (J)	
2/26/2019			0.0014 (J)	0.003 (J)	0.002 (J)	0.0027 (J)	0.024		<0.005
3/29/2019									0.0019 (J)
6/12/2019		<0.005		0.0034 (J)		0.0029 (J)			
6/13/2019			<0.005		0.0089 (J)		0.027	0.0048 (J)	
8/19/2019		<0.005				0.003 (J)			
8/20/2019			0.0022 (J)	0.0032 (J)				0.0039 (J)	
8/21/2019					0.004 (J)		0.037		
9/25/2019									<0.005
10/8/2019		<0.005						0.0031 (J)	
10/9/2019			0.0023 (J)	0.0026 (J)			0.034		
10/10/2019					0.0021 (J)	0.0024 (J)			
2/12/2020									<0.005
3/17/2020		<0.005	0.0017 (J)		0.0096 (J)			0.0026 (J)	
3/18/2020				0.0032 (J)		0.0046 (J)	0.028		<0.005
8/26/2020		<0.005							
8/27/2020			0.011				0.021	0.0027 (J)	
8/28/2020				0.0037 (J)	0.0045 (J)	0.0031 (J)			
9/22/2020		<0.005	0.012	0.0056 (J)	0.0091 (J)	0.0032 (J)			
9/23/2020							0.026	0.0031 (J)	
9/25/2020									<0.005
2/10/2021									<0.005
3/1/2021			0.011	0.0043 (J)		0.0041 (J)			
3/2/2021		<0.005			0.012		0.019		<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)
3/3/2021								0.002 (J)	
8/18/2021			0.019	0.0042 (J)	0.017	0.0046 (J)	0.017	0.0016 (J)	
8/19/2021									<0.005
8/20/2021		<0.005							

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
6/1/2016				<0.005	<0.005				
6/2/2016									<0.005
6/6/2016		<0.005	<0.005						
6/7/2016	0.001 (J)					<0.005	0.00048 (J)		
7/25/2016					<0.005				<0.005
7/26/2016				<0.005					
7/27/2016	0.0012 (J)	<0.005	<0.005			<0.005			
7/28/2016							<0.005		
9/13/2016				<0.005	<0.005				
9/14/2016								<0.005	
9/16/2016	0.0015 (J)		<0.005						
9/19/2016		<0.005				<0.005	0.0014 (J)		<0.005
11/1/2016				<0.005					<0.005
11/2/2016						<0.005			
11/3/2016	0.0015 (J)	<0.005	<0.005				<0.005		
11/4/2016					<0.005			<0.005	
12/15/2016								<0.005	
1/11/2017	0.0014 (J)	<0.005	<0.005	<0.005					
1/13/2017						<0.005	<0.005		
1/16/2017					<0.005			<0.005	<0.005
2/21/2017									<0.005
3/1/2017		<0.005	<0.005						
3/2/2017	0.0017 (J)			<0.005	<0.005				
3/3/2017								<0.005	
3/6/2017						<0.005	<0.005		
4/26/2017		<0.005	<0.005			<0.005	<0.005		<0.005
4/27/2017				<0.005	<0.005				
4/28/2017								<0.005	
5/2/2017	<0.005								
5/26/2017								<0.005	
6/27/2017				<0.005	<0.005				
6/28/2017		<0.005	<0.005					<0.005	
6/29/2017	<0.005					<0.005	<0.005		
6/30/2017									<0.005
3/27/2018					<0.005				<0.005
3/28/2018	<0.005	<0.005	<0.005					<0.005	
3/29/2018				<0.005		<0.005	<0.005		
6/5/2018							<0.005		
6/6/2018						<0.005			
6/7/2018		<0.005							
6/11/2018	<0.005		<0.005						
9/25/2018	<0.005	<0.005	<0.005			<0.005	<0.005		
2/26/2019									<0.005
2/27/2019				<0.005	<0.005			<0.005	
3/5/2019	<0.005		<0.005			<0.005	<0.005		
3/6/2019		<0.005							
3/28/2019				<0.005	<0.005				
3/29/2019								<0.005	
4/1/2019									<0.005
4/2/2019	<0.005						<0.005		
4/3/2019		<0.005	<0.005			<0.005			
9/24/2019				<0.005	<0.005		<0.005	<0.005	

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)
9/25/2019	<0.005					<0.005			<0.005
9/26/2019		<0.005	<0.005						
2/10/2020				<0.005	<0.005				
2/11/2020	<0.005	<0.005	<0.005					<0.005	
2/12/2020						<0.005	<0.005		<0.005
3/18/2020					<0.005				
3/19/2020				<0.005				<0.005	<0.005
3/24/2020	<0.005	<0.005	<0.005			<0.005	<0.005		
9/23/2020	<0.005	<0.005	<0.005	<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	
2/11/2021									<0.005
2/12/2021				<0.005	<0.005				
3/1/2021									<0.005
3/3/2021	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005		<0.005	
3/4/2021							<0.005		
8/19/2021				<0.005	<0.005				<0.005
8/26/2021			<0.005						
8/27/2021	<0.005	<0.005				<0.005		<0.005	
9/1/2021							<0.005		

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016			<0.005					
6/2/2016		<0.005				<0.005	<0.005	<0.005
7/25/2016			<0.005					
7/26/2016		<0.005				0.0009 (J)	<0.005	0.0009 (J)
8/30/2016					0.0017 (J)			
9/14/2016			<0.005			<0.005	<0.005	<0.005
9/15/2016		<0.005						
11/1/2016		<0.005	<0.005					
11/2/2016						<0.005	<0.005	
11/4/2016								<0.005
11/14/2016					<0.005			
1/11/2017		<0.005	<0.005					
1/12/2017							<0.005	<0.005
1/13/2017						<0.005		
2/24/2017					0.0011 (J)			
3/1/2017			<0.005					
3/2/2017		<0.005						
3/6/2017						<0.005		
3/7/2017							<0.005	<0.005
4/26/2017		<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
6/28/2017		<0.005	<0.005					
6/29/2017						<0.005		
7/11/2017					<0.005			
10/10/2017					<0.005			
10/11/2017	<0.005							
10/12/2017				<0.005				
11/20/2017	<0.005			0.0042 (J)				
1/10/2018				0.0043 (J)				
1/11/2018	<0.005							
2/19/2018				<0.005				
2/20/2018	<0.005							
3/28/2018		<0.005	<0.005					
3/29/2018						<0.005	<0.005	<0.005
4/2/2018					<0.005			
4/3/2018	<0.005			<0.005				
6/6/2018							<0.005	
6/7/2018						<0.005		<0.005
6/28/2018	<0.005			0.0032 (J)				
8/7/2018	<0.005			0.0031 (J)				
9/19/2018					<0.005			
9/24/2018	0.0015 (J)			0.0026 (J)				
9/26/2018						<0.005	<0.005	<0.005
2/27/2019		<0.005	<0.005					
3/4/2019						<0.005	<0.005	<0.005
4/1/2019		<0.005	<0.005					
4/3/2019						<0.005	<0.005	<0.005
8/20/2019					<0.005			
8/21/2019	<0.005			0.0024 (J)				

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
9/24/2019							<0.005	<0.005
9/25/2019		<0.005	<0.005			<0.005		
10/9/2019	<0.005			0.0026 (J)				
2/11/2020			<0.005					
2/12/2020	<0.005	<0.005		0.002 (J)		<0.005	<0.005	<0.005
3/19/2020		<0.005	<0.005					
3/24/2020				0.002 (J)			<0.005	<0.005
3/25/2020	<0.005					<0.005		
8/27/2020					<0.005			
9/22/2020						<0.005	<0.005	<0.005
9/23/2020		<0.005	<0.005					
9/24/2020	<0.005			0.0016 (J)				
2/8/2021							<0.005	<0.005
2/9/2021						<0.005		
2/10/2021	<0.005	<0.005	<0.005	<0.005				
3/2/2021							<0.005	<0.005
3/3/2021		<0.005	<0.005			0.0019 (J)		
3/4/2021	<0.005			<0.005				
8/19/2021		<0.005			<0.005			
8/26/2021	<0.005					<0.005	<0.005	<0.005
8/27/2021			<0.005					
9/3/2021				<0.005				

Time Series

Constituent: Silver (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
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						
9/9/2009							<0.005
11/18/2009	<0.005						<0.005
1/5/2010							<0.005
3/3/2010	<0.005						<0.005
9/7/2010							<0.005
9/8/2010	<0.005						
11/22/2010			<0.005		<0.005		
1/4/2011			<0.005		<0.005		
2/17/2011			<0.005		<0.005		
3/10/2011	<0.005						<0.005
3/11/2011			<0.005		<0.005		
3/28/2011			<0.005		<0.005		
9/7/2011			<0.005	<0.005	<0.005	<0.005	
9/8/2011	<0.005	<0.005					<0.005
3/4/2012					<0.005		
3/5/2012	<0.005	<0.005		<0.005		<0.005	<0.005
3/6/2012			<0.005				
9/5/2012		<0.005		<0.005		<0.005	<0.005
9/10/2012	<0.005				<0.005		
9/11/2012			<0.005				
2/5/2013		<0.005				<0.005	<0.005
2/6/2013	<0.005		<0.005	<0.005	<0.005		
8/12/2013	<0.005						
8/13/2013		<0.005	<0.005	<0.005			<0.005
8/14/2013					<0.005	<0.005	
2/4/2014		<0.005	<0.005		<0.005		<0.005
2/5/2014	<0.005			<0.005		<0.005	
8/4/2014				<0.005	<0.005	<0.005	
8/5/2014	<0.005	<0.005	<0.005				<0.005
2/2/2015		<0.005	<0.005		<0.005		
2/3/2015				<0.005		<0.005	<0.005
2/4/2015	<0.005						
8/3/2015	<0.005			<0.005 (D)	<0.005 (D)	<0.005 (D)	
8/4/2015		<0.005 (D)	<0.005				<0.005
2/16/2016	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005
2/17/2016			<0.005				
2/22/2017	<0.005		<0.005				
2/23/2017		<0.005		<0.005			<0.005
2/24/2017					<0.005	<0.005	
2/19/2018	<0.005						<0.005
2/20/2018			<0.005		<0.005		
2/21/2018		<0.005		<0.005		<0.005	
8/6/2018	<0.005						<0.005
8/7/2018		<0.005		<0.005		<0.005	
8/8/2018			<0.005		<0.005		
2/25/2019	<0.005						<0.005
2/26/2019		<0.005	<0.005	<0.005	<0.005	<0.005	

Time Series

Constituent: Silver (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
6/12/2019	<0.005		<0.005		<0.005		
6/13/2019		<0.005		<0.005		<0.005	<0.005
10/8/2019	<0.005						<0.005
10/9/2019		<0.005	<0.005			<0.005	
10/10/2019				<0.005	<0.005		
3/17/2020	<0.005	<0.005		<0.005			<0.005
3/18/2020			<0.005		<0.005	<0.005	
9/22/2020	<0.005	<0.005	<0.005	<0.005	<0.005		
9/23/2020						<0.005	<0.005
3/1/2021		<0.005	<0.005		<0.005		
3/2/2021	<0.005			<0.005		<0.005	
3/3/2021							<0.005
8/18/2021		<0.005	<0.005	<0.005	<0.005	0.00084 (J)	<0.005
8/20/2021	<0.005						

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
3/28/2019			8	4.3					
3/29/2019							9		
4/1/2019								0.96 (J)	
4/2/2019						3.8			
4/3/2019	0.82 (J)	1.3			0.12 (J)				
9/24/2019			5.3	4.3		1	9.1		
9/25/2019					<1			0.81 (J)	
9/26/2019	0.64 (J)	1							
10/9/2019									15
3/18/2020				5.3					
3/19/2020			10				12.4	1.6	
3/24/2020	<1	0.99 (J)			<1	3			
3/25/2020									14.3
9/23/2020	0.53 (J)	1.1	8.1	3.4			11.8		
9/24/2020					<1	3.6		0.69 (J)	11.7
3/1/2021								0.88 (J)	
3/3/2021	<1	1	9	4.4	<1		10.6		
3/4/2021						4.5			12
8/19/2021			8.9	4.9				1	
8/26/2021		1.2							19.2
8/27/2021	0.59 (J)				<1		16.7		
9/1/2021						5			

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		12					
6/2/2016	5.8				8	20	1.9
7/25/2016		8.4					
7/26/2016	6.7				7.7	20	1.8
8/30/2016				160			
9/14/2016		8.6			7.5	19	1.8
9/15/2016	6						
11/1/2016	4.9	8.9					
11/2/2016					8.2	20	
11/4/2016							2
11/14/2016				150			
1/11/2017	4.5	8.6					
1/12/2017						19	1.9
1/13/2017					8.1		
2/24/2017				120			
3/1/2017		9.3					
3/2/2017	4.4						
3/6/2017					8		
3/7/2017						20	2.1
4/26/2017	5.1	11					
5/1/2017					8.4	20	
5/2/2017							2
5/8/2017				120			
6/27/2017						18	2.1
6/28/2017	5.4	12					
6/29/2017					9.2		
7/11/2017				110			
10/3/2017						16	2.3
10/4/2017	6.2	12					
10/5/2017					9.6		
10/10/2017				93			
10/12/2017			17				
11/20/2017			71				
1/10/2018			66				
2/19/2018			57.2				
4/2/2018				88.8			
4/3/2018			49.4				
6/6/2018						8.3	
6/7/2018	6.7				8.5		2
6/8/2018		9.6					
6/28/2018			43.8				
8/7/2018			40.5				
9/19/2018				75			
9/24/2018			39.7				
9/26/2018					10.2	7.9	2.3
10/1/2018	7.1	9.1					
3/26/2019			34.3				
3/27/2019				65.9			
4/1/2019	7.2	8.5					
4/3/2019					8.5	7	2.1
9/24/2019						5.5	2.4
9/25/2019	7	13.8			8.5		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
10/8/2019				52.3			
10/9/2019			27.9				
3/17/2020				71.6			
3/19/2020	9	12.9					
3/24/2020			25.2			5.9	2.1
3/25/2020					8.8		
9/22/2020				51.5	8.2	5.5	2.1
9/23/2020	6.9	16.8					
9/24/2020			22.9				
3/1/2021				51.6			
3/2/2021						2.6	2.3
3/3/2021	7	9.6			7.8		
3/4/2021			21.5				
8/19/2021	7.5			52.6			
8/26/2021					8.5	6	2.4
8/27/2021		18.2					
9/3/2021			21.3				

Time Series

Constituent: TDS (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
3/28/2019			87	87					
3/29/2019							150		
4/1/2019								54	
4/2/2019						134			
4/3/2019	89	63			57				
9/24/2019			124	54		157	146		
9/25/2019					75			51	
9/26/2019	126	72							
10/9/2019									119
3/18/2020				35					
3/19/2020			116				148	47	
3/24/2020	91	59			76	117			
3/25/2020									158
9/23/2020	103	81	108	15			161		
9/24/2020					69	113		51	170
3/1/2021								23	
3/3/2021	95	37	99	39	53		138		
3/4/2021						110			168
8/19/2021			105	44				50	
8/26/2021		31							249
8/27/2021	112				67		150		
9/1/2021						137			

Time Series

Constituent: TDS (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		150					
6/2/2016	130				96	160	66
7/25/2016		135					
7/26/2016	141				92	177	78
8/30/2016				319			
9/14/2016		127			102	187	73
9/15/2016	153						
11/1/2016	92	75					
11/2/2016					115	181	
11/4/2016							75
11/14/2016				280			
1/11/2017	159	148					
1/12/2017						202	86
1/13/2017					67		
2/24/2017				162			
3/1/2017		182					
3/2/2017	117						
3/6/2017					159		
3/7/2017						257	108
4/26/2017	181	92					
5/1/2017					107	165	
5/2/2017							103
5/8/2017				194			
6/27/2017						189	73
6/28/2017	169	126					
6/29/2017					79		
7/11/2017				193			
10/3/2017						170	89
10/4/2017	141	147					
10/5/2017					95		
10/10/2017				175			
10/12/2017			74				
11/20/2017			179				
1/10/2018			140				
2/19/2018			119				
4/2/2018				192			
4/3/2018			106				
6/6/2018						151	
6/7/2018	95				90		142
6/8/2018		158					
6/28/2018			112				
8/7/2018			103				
9/19/2018				186			
9/24/2018			107				
9/26/2018					116	144	86
10/1/2018	165	138					
3/26/2019			90				
3/27/2019				170			
4/1/2019	149	19 (J)					
4/3/2019					111	142	83
9/24/2019						129	79
9/25/2019	157	159			117		

Time Series

Constituent: TDS (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
10/8/2019				172			
10/9/2019			98				
3/17/2020				165			
3/19/2020	146	148					
3/24/2020			84			139	68
3/25/2020					146		
9/22/2020				141	83	104	75
9/23/2020	157	155					
9/24/2020			77				
3/1/2021				145			
3/2/2021						52	67
3/3/2021	137	111			80		
3/4/2021			57				
8/19/2021	144			134			
8/26/2021					93	123	86
8/27/2021		155					
9/3/2021			88				

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (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								
9/9/2009							<0.001		
11/18/2009	<0.001						<0.001		
1/5/2010							<0.001		
3/3/2010	<0.001						<0.001		
9/7/2010							<0.001		
9/8/2010	<0.001								
11/22/2010			<0.001		<0.001				
1/4/2011			<0.001		<0.001				
2/17/2011			<0.001		<0.001				
3/10/2011	<0.001						<0.001		
3/11/2011			<0.001		<0.001				
3/28/2011			<0.001		<0.001				
9/7/2011			<0.001	<0.001	<0.001	<0.001			
9/8/2011	<0.001	<0.001					<0.001		
3/4/2012					<0.001				
3/5/2012	<0.001	<0.001		<0.001		<0.001	<0.001		
3/6/2012			<0.001						
9/5/2012		<0.001		<0.001		<0.001	<0.001		
9/10/2012	<0.001				<0.001				
9/11/2012			<0.001						
2/5/2013		<0.001				<0.001	<0.001		
2/6/2013	<0.001		<0.001	<0.001	<0.001				
8/12/2013	<0.001								
8/13/2013		<0.001	<0.001	<0.001				<0.001	
8/14/2013					<0.001	<0.001			
2/4/2014		<0.001	<0.001		<0.001		<0.001		
2/5/2014	<0.001			<0.001		<0.001			
8/4/2014				<0.001	<0.001	<0.001			
8/5/2014	<0.001	<0.001					<0.001		
2/2/2015		<0.001	<0.001		<0.001				
2/3/2015				<0.001		<0.001	<0.001		
2/4/2015	<0.001								
2/16/2016	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001		
2/17/2016			7E-05 (J)						
6/2/2016							<0.001		
6/7/2016									<0.001
7/26/2016							<0.001		
7/27/2016									<0.001
8/31/2016	<0.001	<0.001	<0.001	<0.001					
9/1/2016					<0.001	<0.001	<0.001		
9/15/2016							<0.001		
9/16/2016									<0.001
11/2/2016							<0.001		
11/3/2016									<0.001
11/28/2016	<0.001		<0.001						
11/29/2016		<0.001					<0.001		
11/30/2016				<0.001	<0.001				

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)
12/1/2016						<0.001			
1/10/2017								<0.001	
1/11/2017									<0.001
2/22/2017	<0.001		<0.001						
2/23/2017		<0.001		<0.001			<0.001		
2/24/2017					<0.001	<0.001			
3/2/2017									<0.001
3/8/2017								<0.001	
4/26/2017								<0.001	
5/2/2017									<0.001
5/8/2017	6E-05 (J)								
5/9/2017		<0.001		<0.001					
5/10/2017			<0.001		<0.001	<0.001	<0.001		
6/29/2017									<0.001
6/30/2017								<0.001	
7/17/2017	6E-05 (J)					<0.001			
7/18/2017		<0.001	<0.001	<0.001	<0.001		<0.001		
10/16/2017	7E-05 (J)					<0.001			
10/17/2017		<0.001	<0.001		<0.001				
10/18/2017				<0.001			<0.001		
2/19/2018	<0.001						<0.001		
2/20/2018			<0.001		<0.001				
2/21/2018		<0.001		<0.001		<0.001			
3/27/2018								<0.001	
3/28/2018									<0.001
8/6/2018	<0.001						<0.001		
8/7/2018		<0.001		<0.001		<0.001			
8/8/2018			<0.001		<0.001				
2/25/2019	<0.001						<0.001		
2/26/2019		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001		
3/5/2019									<0.001
4/2/2019									<0.001
6/12/2019	<0.001		<0.001		<0.001				
6/13/2019		<0.001		<0.001		<0.001	<0.001		
8/19/2019	5.5E-05 (J)				<0.001				
8/20/2019		<0.001	<0.001				<0.001		
8/21/2019				<0.001		5.3E-05 (J)			
9/25/2019									<0.001
10/8/2019	<0.001						<0.001		
10/9/2019		<0.001	<0.001			<0.001			
10/10/2019				<0.001	<0.001				
2/11/2020									<0.001
2/12/2020								8.9E-05 (J)	
3/17/2020	<0.001	<0.001		<0.001			<0.001		
3/18/2020			<0.001		<0.001	<0.001	<0.001		
3/24/2020									<0.001
8/26/2020	<0.001								
8/27/2020		<0.001				<0.001	<0.001		
8/28/2020			<0.001	<0.001	<0.001				
9/22/2020	<0.001	<0.001	<0.001	<0.001	<0.001				
9/23/2020						<0.001	<0.001		<0.001
9/25/2020								<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)
9/24/2019						<0.001			
9/25/2019					<0.001				
9/26/2019	<0.001	<0.001							
2/10/2020			<0.001	5.5E-05 (J)					
2/11/2020	<0.001	<0.001					<0.001		
2/12/2020					<0.001	<0.001		<0.001	<0.001
3/18/2020				<0.001					
3/19/2020			<0.001				<0.001	<0.001	
3/24/2020	<0.001	<0.001			<0.001	<0.001			
3/25/2020									<0.001
9/23/2020	<0.001	<0.001	<0.001	<0.001			<0.001		
9/24/2020					<0.001	<0.001		<0.001	<0.001
2/9/2021	<0.001	<0.001			<0.001	<0.001			
2/10/2021							<0.001		<0.001
2/11/2021								<0.001	
2/12/2021			<0.001	<0.001					

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/1/2016		<0.001					
6/2/2016	<0.001				<0.001	<0.001	<0.001
7/25/2016		<0.001					
7/26/2016	0.0001 (J)				<0.001	<0.001	<0.001
8/30/2016				<0.001			
9/14/2016		<0.001			<0.001	<0.001	<0.001
9/15/2016	<0.001						
11/1/2016	<0.001	<0.001					
11/2/2016					<0.001	<0.001	
11/4/2016							<0.001
11/14/2016				<0.001			
1/11/2017	<0.001	<0.001					
1/12/2017						<0.001	<0.001
1/13/2017					<0.001		
2/24/2017				<0.001			
3/1/2017		<0.001					
3/2/2017	<0.001						
3/6/2017					<0.001		
3/7/2017						<0.001	<0.001
4/26/2017	<0.001	<0.001					
5/1/2017					<0.001	<0.001	
5/2/2017							<0.001
5/8/2017				<0.001			
6/27/2017						<0.001	<0.001
6/28/2017	<0.001	<0.001					
6/29/2017					<0.001		
7/11/2017				<0.001			
10/10/2017				<0.001			
10/12/2017			<0.001				
11/20/2017			<0.001				
1/10/2018			<0.001				
2/19/2018			<0.001				
3/28/2018	<0.001	<0.001					
3/29/2018					<0.001	<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				
2/27/2019	<0.001	<0.001					
3/4/2019					<0.001	<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	<0.001
9/25/2019					<0.001		
10/8/2019				8.4E-05 (J)			
2/11/2020		<0.001					
2/12/2020	<0.001		<0.001		<0.001	<0.001	<0.001
3/17/2020				<0.001			
3/19/2020	<0.001	<0.001					

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
3/24/2020			<0.001			<0.001	<0.001
3/25/2020					<0.001		
8/27/2020				<0.001			
9/22/2020					<0.001	<0.001	<0.001
9/23/2020	<0.001	0.00016 (J)					
9/24/2020			<0.001				
2/8/2021						<0.001	<0.001
2/9/2021					<0.001		
2/10/2021	<0.001	<0.001	<0.001				
8/19/2021				<0.001			

Time Series

Constituent: Vanadium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
5/1/2007	0.0055						
9/11/2007	0.004						
3/20/2008	<0.01						
8/27/2008	0.0029						
3/3/2009	<0.01						
9/9/2009							<0.01
11/18/2009	<0.01						<0.01
1/5/2010							<0.01
3/3/2010	<0.01						<0.01
9/7/2010							<0.01
9/8/2010	<0.01						
11/22/2010			<0.01		<0.01		
1/4/2011			<0.01		<0.01		
2/17/2011			<0.01		<0.01		
3/10/2011	<0.01						<0.01
3/11/2011			<0.01		<0.01		
3/28/2011			<0.01		<0.01		
9/7/2011			<0.01	<0.01	<0.01	<0.01	
9/8/2011	<0.01	<0.01					<0.01
3/4/2012					<0.01		
3/5/2012	<0.01	<0.01		<0.01		<0.01	<0.01
3/6/2012			<0.01				
9/5/2012		<0.01		<0.01		<0.01	<0.01
9/10/2012	<0.01				<0.01		
9/11/2012			<0.01				
2/5/2013		<0.01				<0.01	<0.01
2/6/2013	<0.01		<0.01	<0.01	<0.01		
8/12/2013	<0.01						
8/13/2013		<0.01	<0.01	<0.01			<0.01
8/14/2013					<0.01	<0.01	
2/4/2014		<0.01	<0.01		<0.01		<0.01
2/5/2014	<0.01			<0.01		<0.01	
8/4/2014				<0.01	<0.01	0.0022 (J)	
8/5/2014	<0.01	0.0011 (J)	<0.01				0.0015 (J)
2/2/2015		0.0051	<0.01		<0.01		
2/3/2015				<0.01		<0.01	0.00093 (J)
2/4/2015	<0.01						
8/3/2015	0.0013 (J)			<0.01 (D)	<0.01 (D)	0.0019 (JD)	
8/4/2015		<0.01 (D)	<0.01				0.0036 (J)
2/16/2016	<0.01	0.00075 (J)		<0.01	<0.01	0.0011 (J)	0.0011 (J)
2/17/2016			<0.01				
2/22/2017	<0.01		<0.01				
2/23/2017		<0.01		<0.01			<0.01
2/24/2017					<0.01	<0.01	
5/8/2017	<0.01						
5/9/2017		<0.01		<0.01			
5/10/2017			<0.01		<0.01	<0.01	<0.01
7/17/2017	<0.01					<0.01	
7/18/2017		<0.01	<0.01	<0.01	<0.01		<0.01
2/19/2018	<0.01						<0.01
2/20/2018			<0.01		<0.01		
2/21/2018		<0.01		<0.01		<0.01	

Time Series

Constituent: Vanadium (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/6/2018	<0.01						0.0029 (J)
8/7/2018		<0.01		<0.01		<0.01	
8/8/2018			<0.01		<0.01		
2/25/2019	<0.01						<0.01
2/26/2019		<0.01	<0.01	<0.01	<0.01	<0.01	
6/12/2019	0.0032 (J)		0.00079 (J)		0.00088 (J)		
6/13/2019		<0.01		0.0021 (J)		<0.01	<0.01
10/8/2019	<0.01						<0.01
10/9/2019		<0.01	<0.01			<0.01	
10/10/2019				0.0011 (J)	<0.01		
3/17/2020	<0.01	<0.01		<0.01			0.00098 (J)
3/18/2020			<0.01		<0.01	<0.01	
9/22/2020	<0.01	<0.01	<0.01	<0.01	<0.01		
9/23/2020						<0.01	<0.01
3/1/2021		<0.01	<0.01		<0.01		
3/2/2021	<0.01			<0.01		<0.01	
3/3/2021							<0.01
8/18/2021		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
8/20/2021	<0.01						

Time Series

Constituent: Zinc (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
9/9/1998	0.01							
9/20/1999	0.017							
9/12/2001	0.017							
9/3/2002	0.015							
7/29/2003	0.022							
12/5/2003	0.0087							
9/22/2004	<0.01							
5/1/2007		0.0081						
9/11/2007		0.0049						
3/20/2008		0.004						
8/27/2008		0.0042						
3/3/2009		0.0058						
9/9/2009								0.003
11/18/2009		0.0038						<0.01
1/5/2010								0.0027
3/3/2010		0.0085						<0.01
9/7/2010								<0.01
9/8/2010		0.0065						
11/22/2010				0.0047		<0.01		
1/4/2011				0.0038		<0.01		
2/17/2011				0.0074		<0.01		
3/10/2011		0.0029						<0.01
3/11/2011				0.0038		0.025 (o)		
3/28/2011				<0.01		<0.01		
9/7/2011				0.0059	0.0064	<0.01	0.0064	
9/8/2011	0.004		0.0048					<0.01
3/4/2012						<0.01		
3/5/2012		0.0059	0.0038		0.0043		0.0034	0.0053
3/6/2012				0.0032				
9/5/2012			0.0051		0.0069		0.0035	0.0033
9/10/2012		0.0052				<0.01		
9/11/2012				0.0029				
2/5/2013			<0.01				0.0027	<0.01
2/6/2013		0.0038		0.0036	<0.01	<0.01		
8/12/2013		0.0075						
8/13/2013			<0.01	0.0066	0.011			0.0038
8/14/2013						<0.01	0.0041	
2/4/2014			0.0037	0.011		0.0034		0.0046
2/5/2014		0.018 (o)			0.026 (o)		0.011	
8/4/2014					0.012	0.0013 (J)	0.011	
8/5/2014		0.0037	0.0019 (J)	0.0032				0.0019 (J)
2/2/2015			0.0051	0.0031		<0.01		
2/3/2015					0.0061		0.0044	0.0026
2/4/2015		0.0057						
8/3/2015		0.0043			0.0037 (D)	<0.01 (D)	0.011 (D)	
8/4/2015			0.0017 (JD)	0.0017 (J)				0.0035
2/16/2016		0.0024 (J)	0.0015 (J)		0.0093	0.0017 (J)	0.014	0.002 (J)
2/17/2016				0.0034				
2/22/2017		0.0042 (J)		0.0024 (J)				
2/23/2017			0.0024 (J)		0.0031 (J)			0.0038 (J)
2/24/2017						0.0028 (J)	0.0043 (J)	
5/8/2017		0.0025 (J)						

Time Series

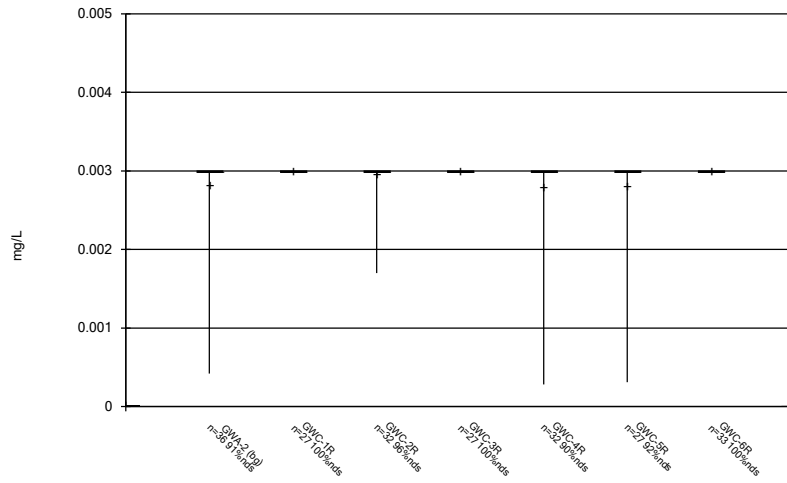
Constituent: Zinc (mg/L) Analysis Run 10/29/2021 3:35 PM View: Descriptive

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
5/9/2017			0.0016 (J)		0.0025 (J)			
5/10/2017				0.0022 (J)		0.0014 (J)	0.0042 (J)	0.0027 (J)
7/17/2017		0.0032 (J)					0.0055 (J)	
7/18/2017			0.0015 (J)	0.0017 (J)	0.0028 (J)	0.0015 (J)		0.0024 (J)
2/19/2018		<0.01						<0.01
2/20/2018				<0.01		<0.01		
2/21/2018			<0.01		0.003 (J)		0.0102	
8/6/2018		0.0037 (J)						0.004 (J)
8/7/2018			0.0044 (J)		0.0036 (J)		0.015	
8/8/2018				0.0021 (J)		0.0033 (J)		
2/25/2019		0.013						0.0028 (J)
2/26/2019			0.0022 (J)	0.003 (J)	0.0033 (J)	<0.01	0.015	
6/12/2019		<0.01		0.0019 (J)		<0.01		
6/13/2019			<0.01		0.0069 (J)		0.015	<0.01
10/8/2019		0.0078 (J)						0.006 (J)
10/9/2019			0.0078 (J)	0.0069 (J)			0.025	
10/10/2019					0.0079 (J)	0.006 (J)		
1/21/2020							0.015	
3/17/2020		<0.01	<0.01		<0.01			<0.01
3/18/2020				<0.01		<0.01	0.023	
9/22/2020		0.033	0.0029 (J)	0.003 (J)	0.0036 (J)	<0.01		
9/23/2020							0.018	<0.01
3/1/2021			<0.01	<0.01		<0.01		
3/2/2021		0.031			0.0069 (J)		0.022	
3/3/2021								<0.01
8/18/2021			<0.01	<0.01	0.011	<0.01	0.026	<0.01
8/20/2021		0.014						

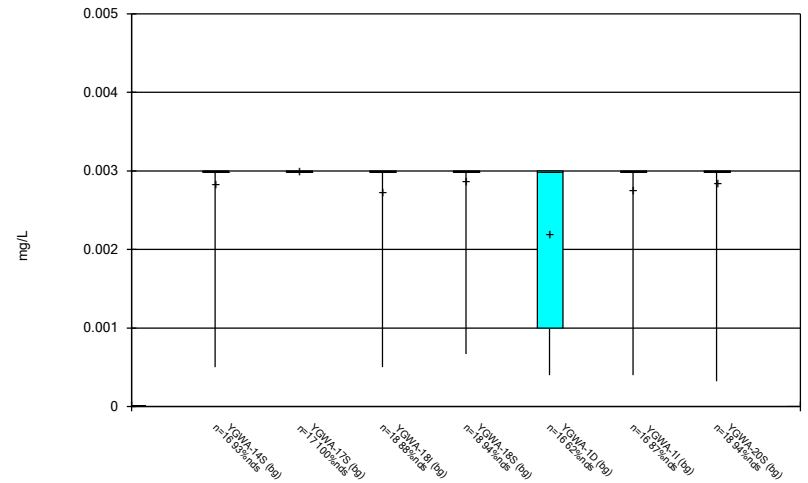
FIGURE B.

Box & Whiskers Plot



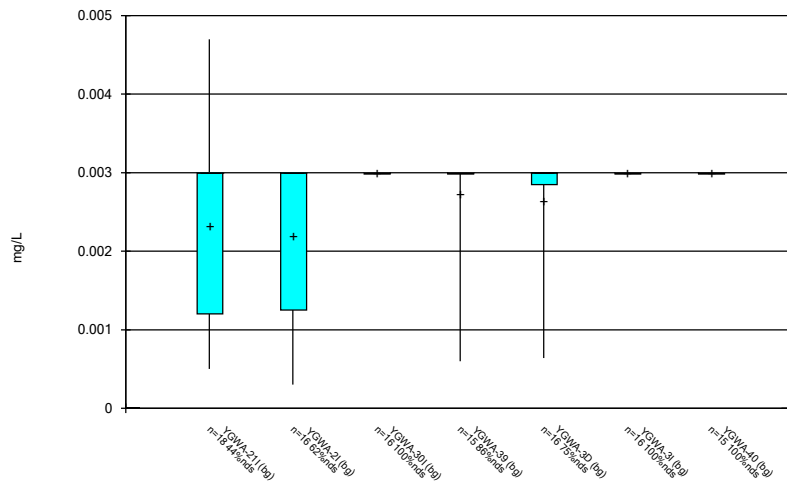
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Box & Whiskers Plot



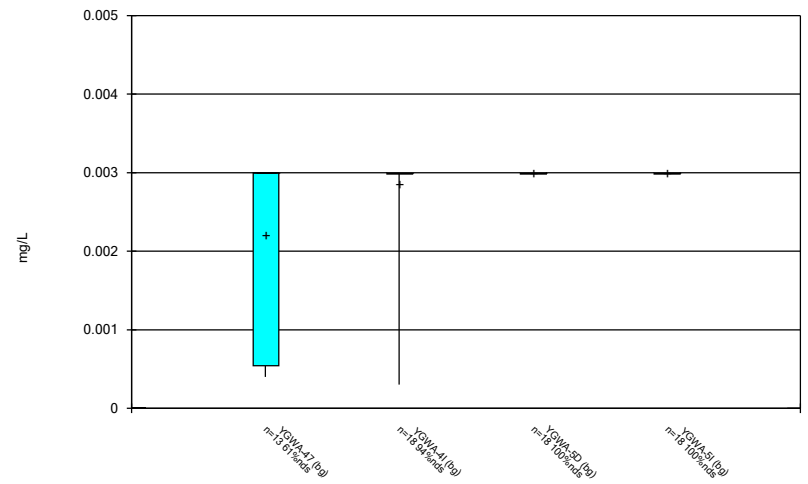
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Box & Whiskers Plot



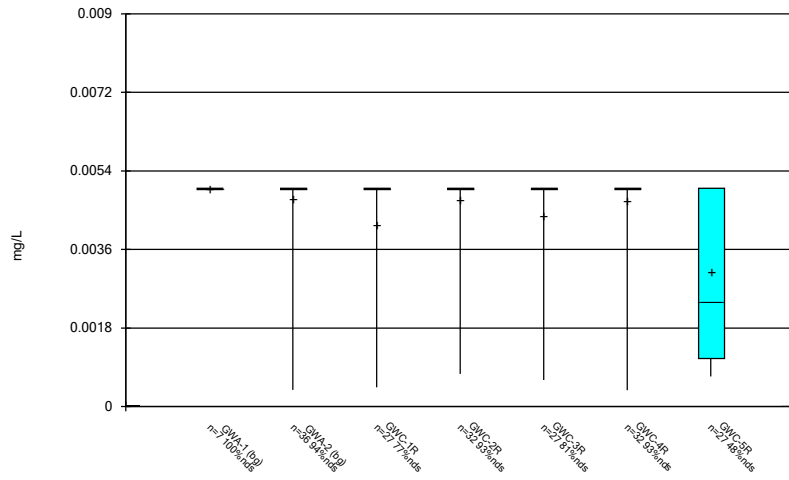
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Box & Whiskers Plot



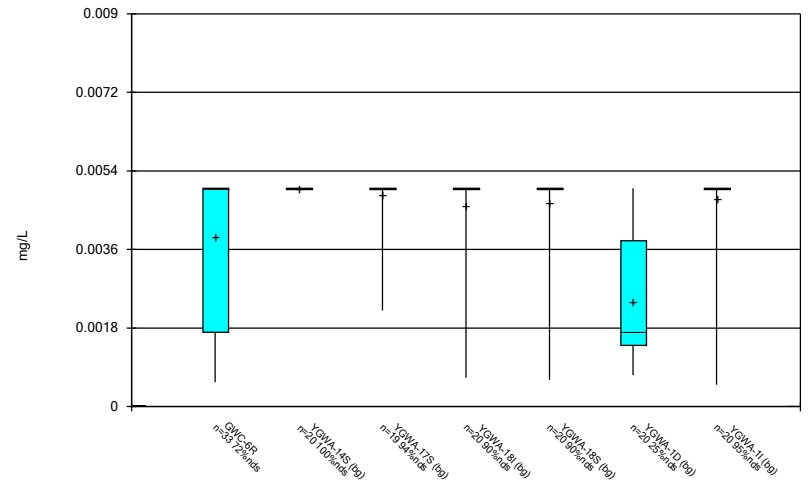
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Box & Whiskers Plot



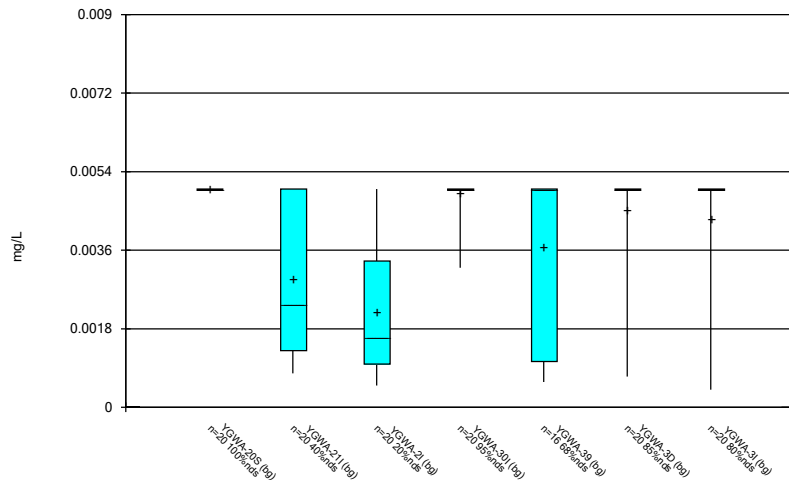
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Box & Whiskers Plot



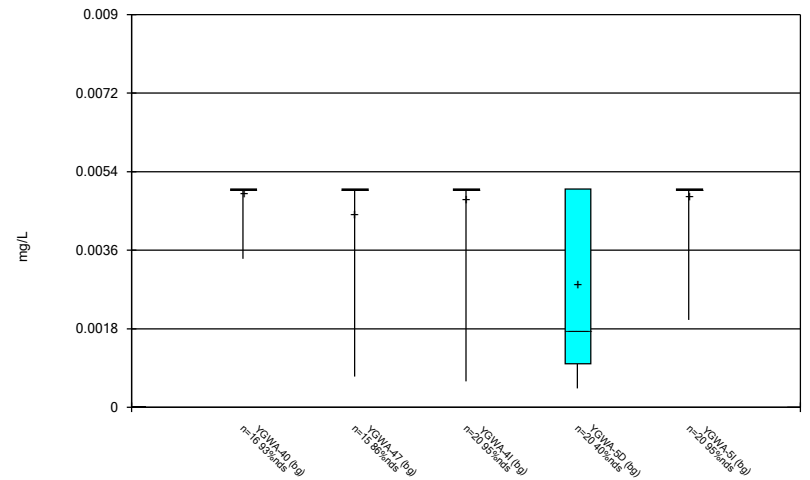
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Box & Whiskers Plot



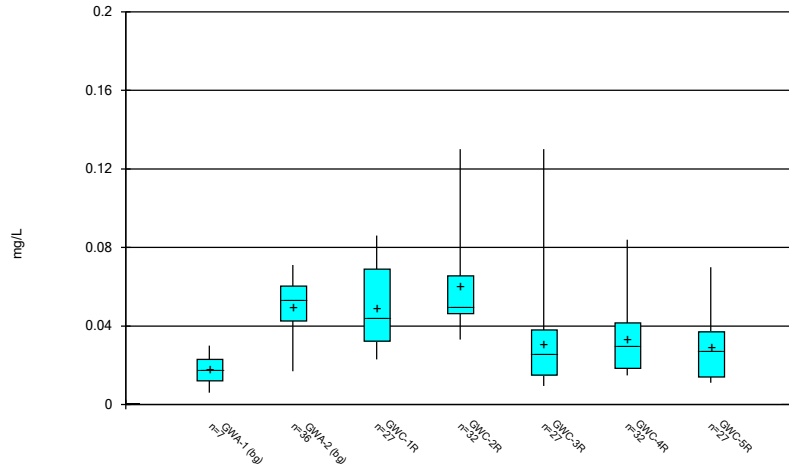
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Box & Whiskers Plot



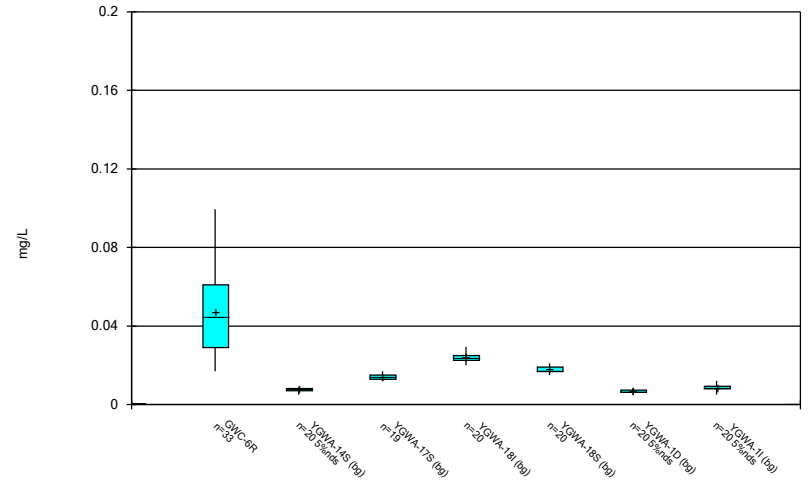
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Box & Whiskers Plot



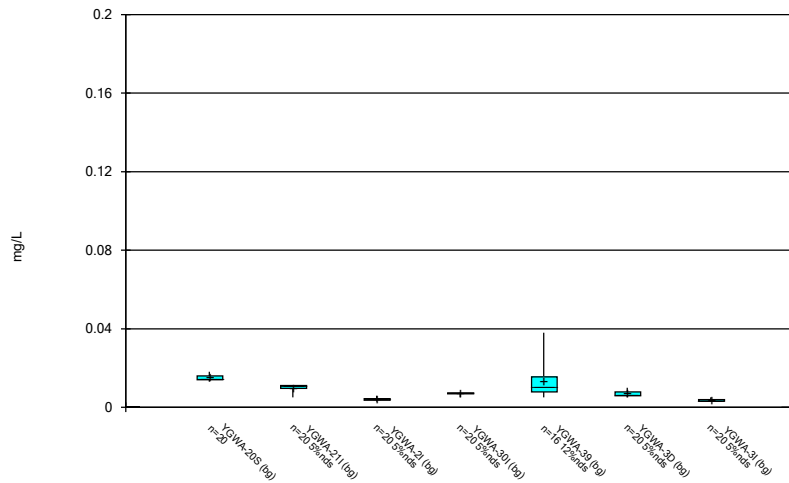
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Box & Whiskers Plot



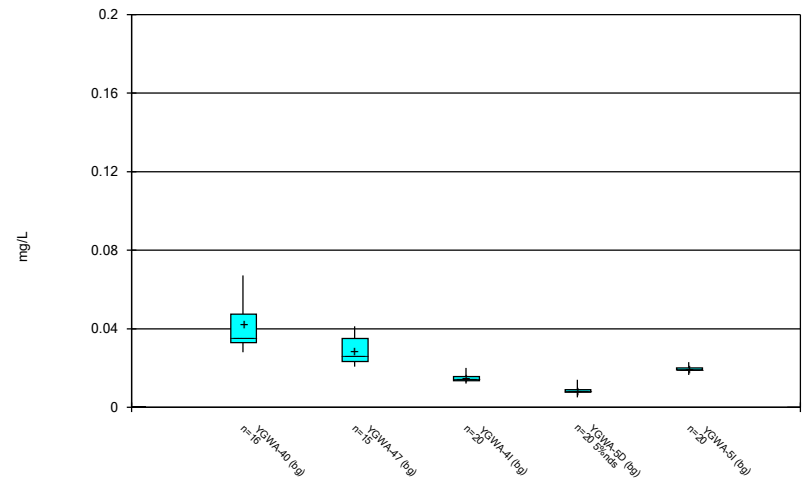
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Box & Whiskers Plot



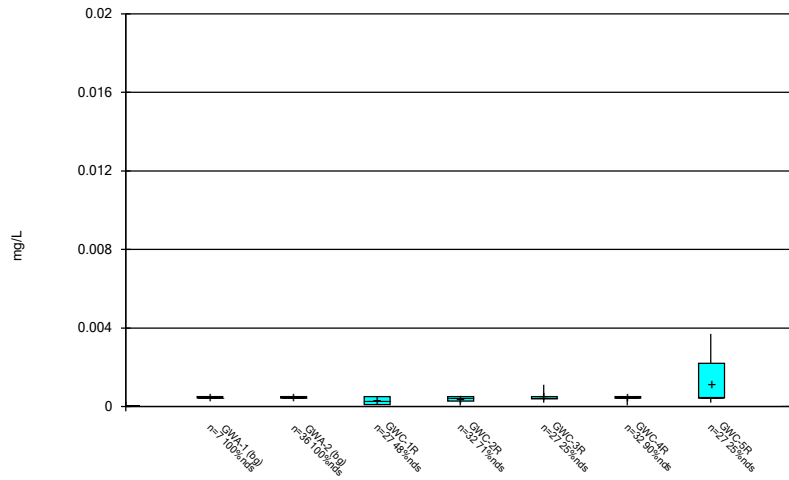
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Box & Whiskers Plot



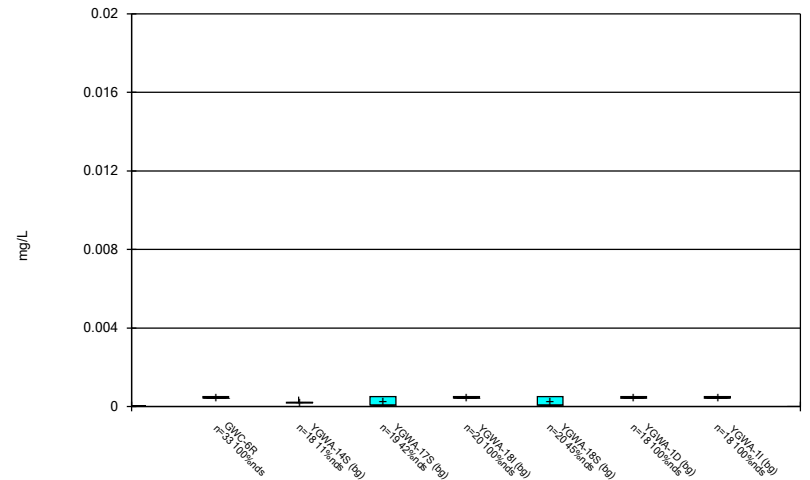
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Box & Whiskers Plot



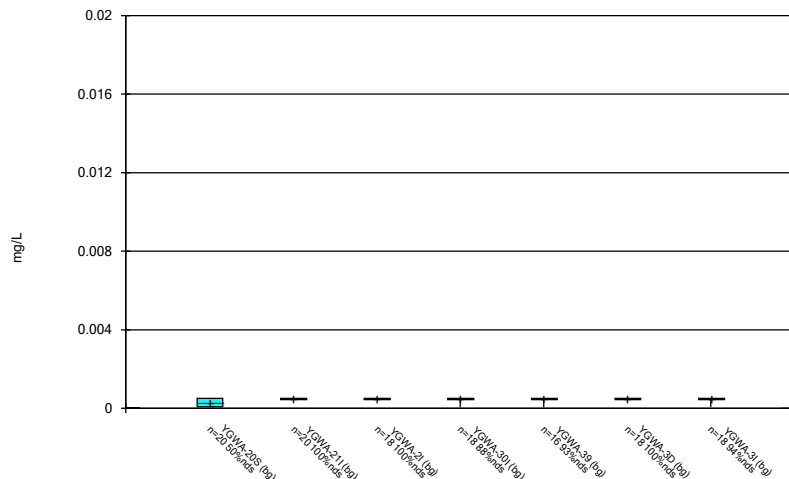
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Box & Whiskers Plot



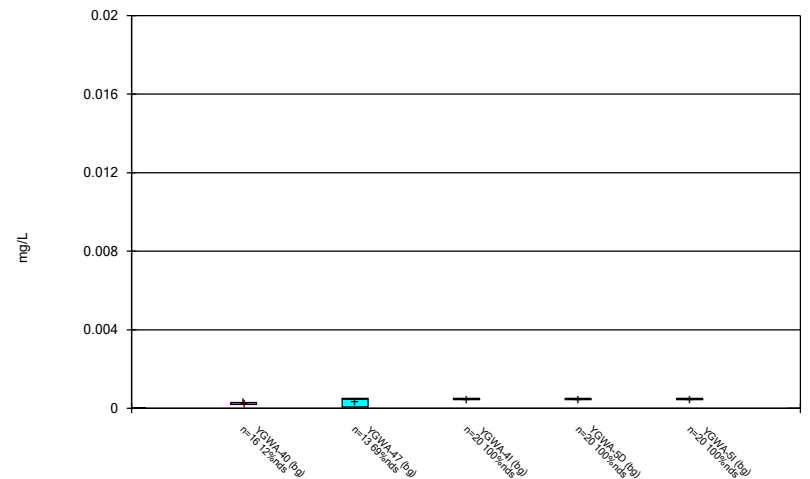
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Box & Whiskers Plot



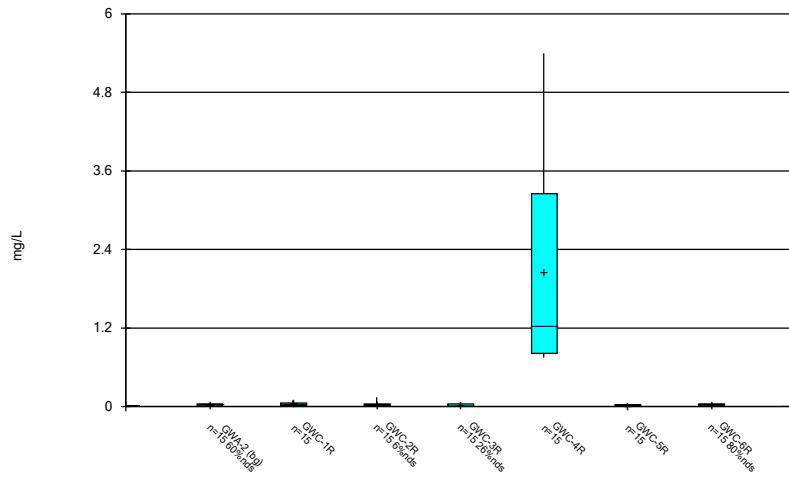
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Box & Whiskers Plot



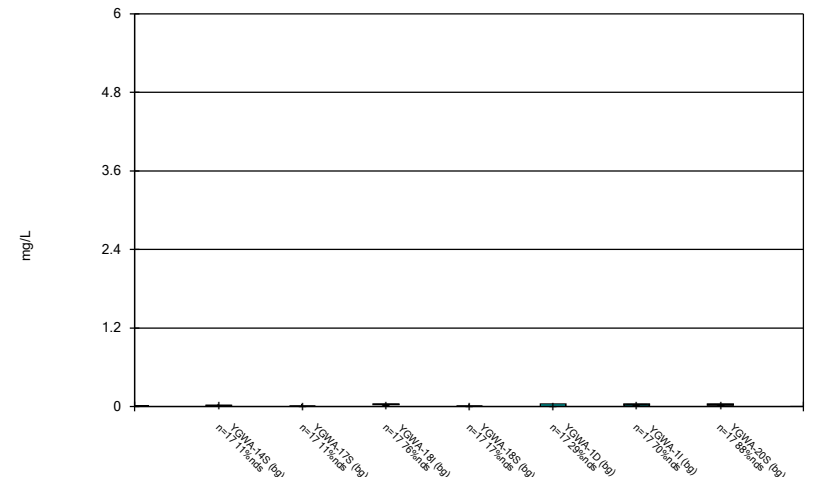
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Box & Whiskers Plot



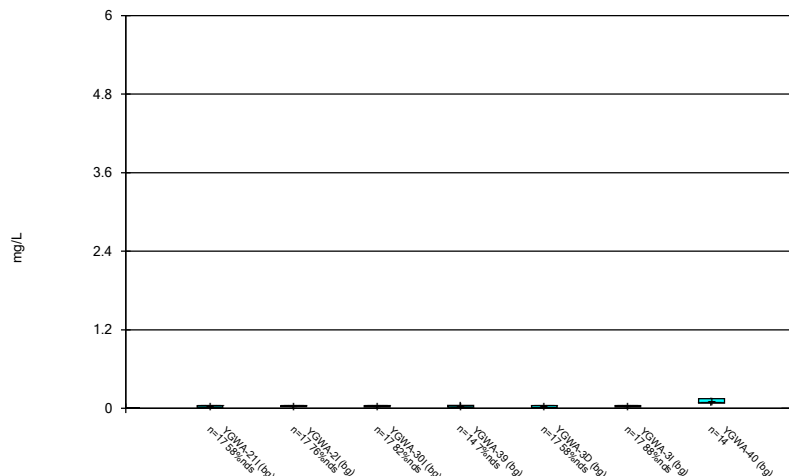
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Box & Whiskers Plot



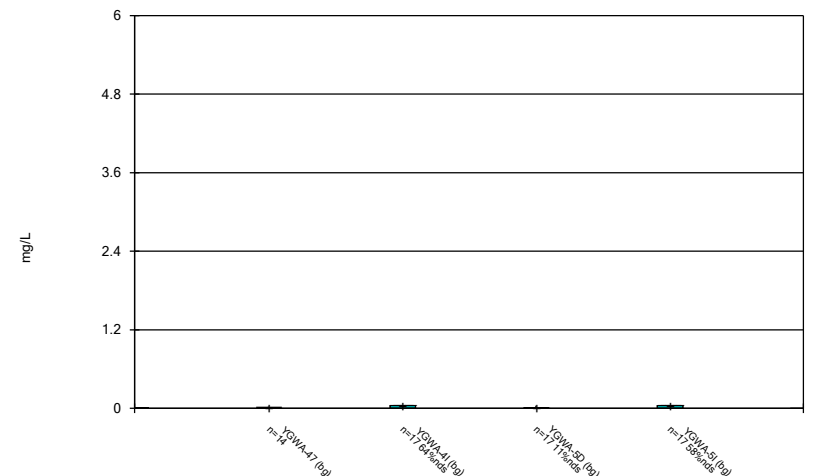
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Box & Whiskers Plot



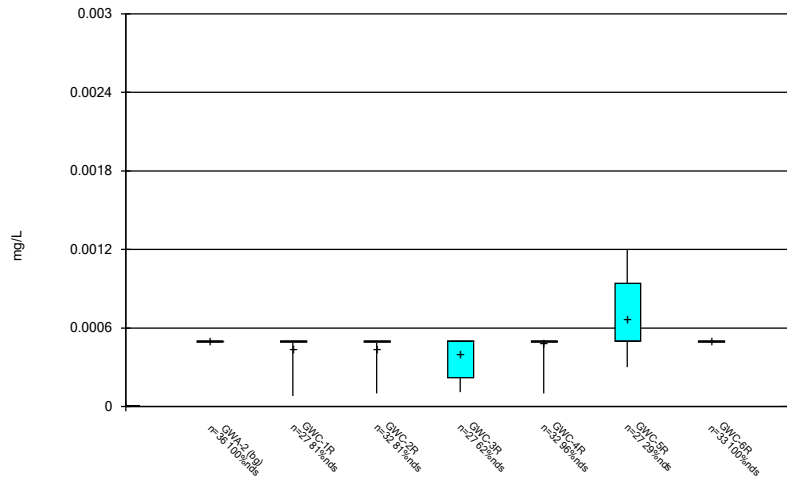
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Box & Whiskers Plot



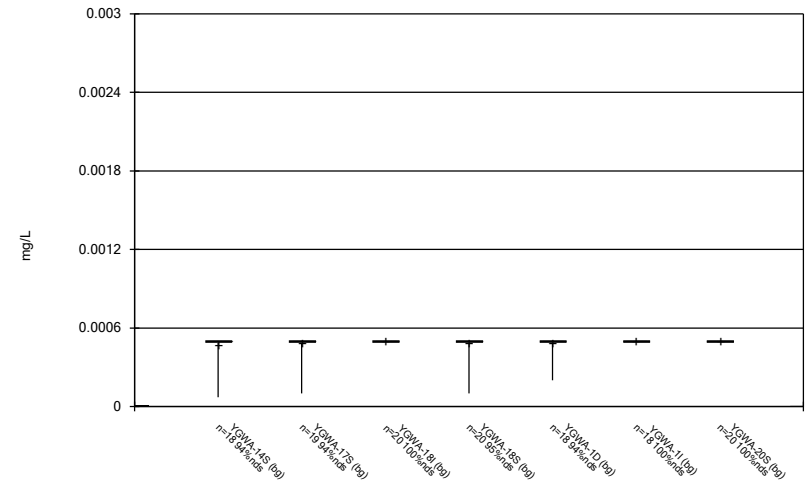
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Box & Whiskers Plot



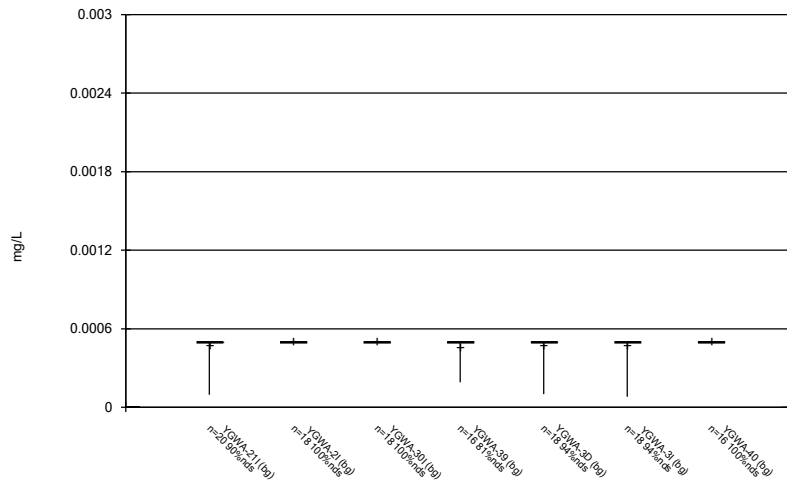
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Box & Whiskers Plot



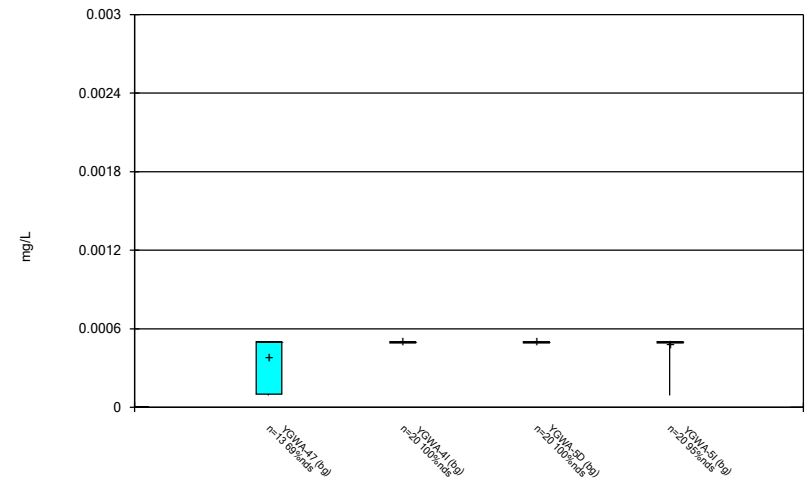
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Box & Whiskers Plot



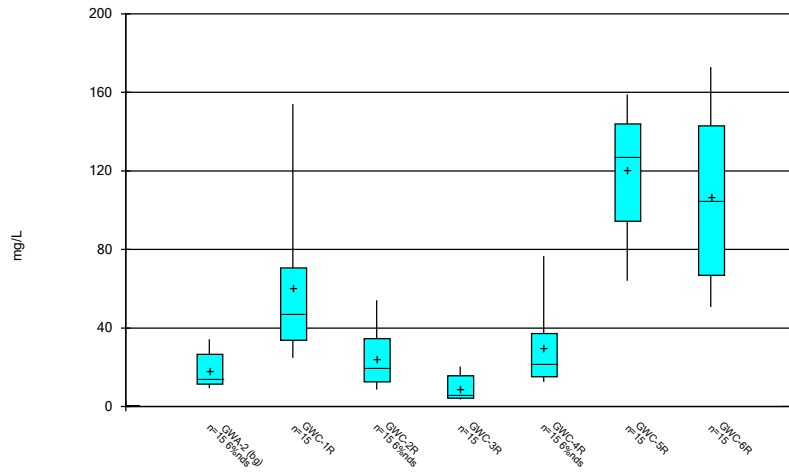
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Box & Whiskers Plot



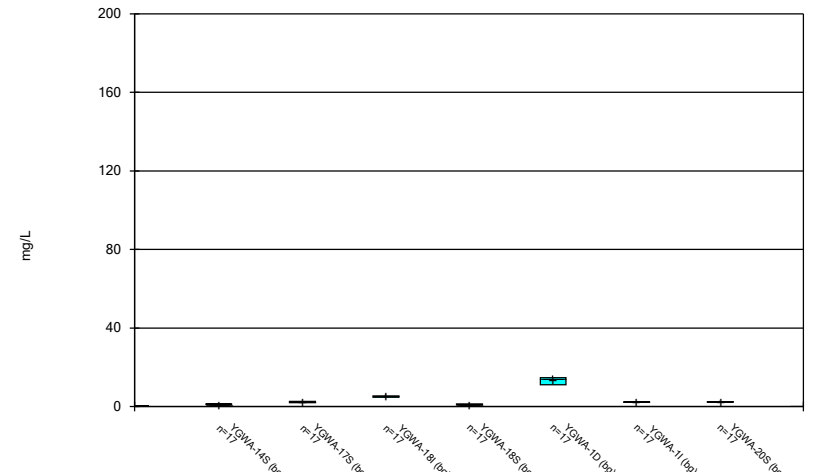
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Box & Whiskers Plot



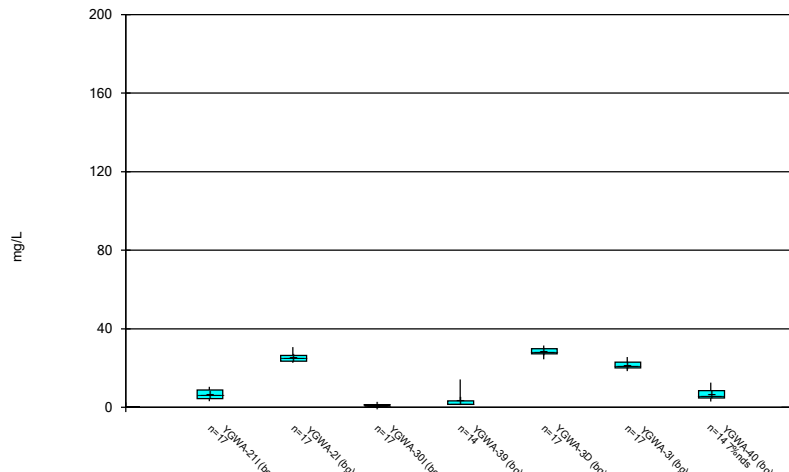
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Box & Whiskers Plot



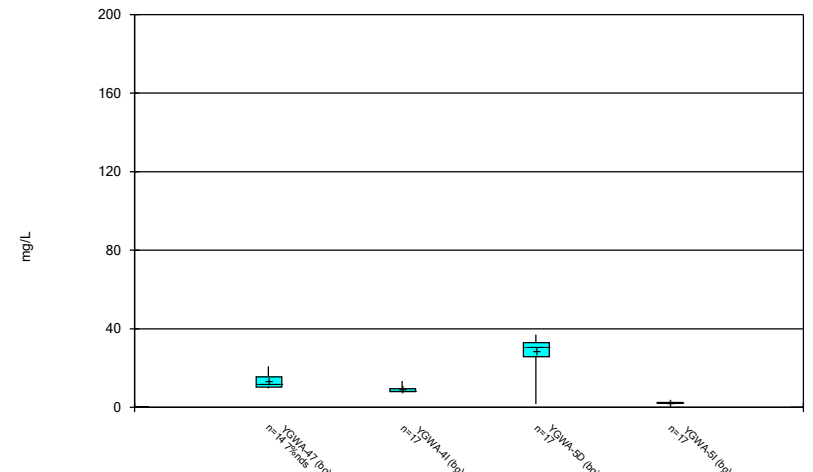
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Box & Whiskers Plot



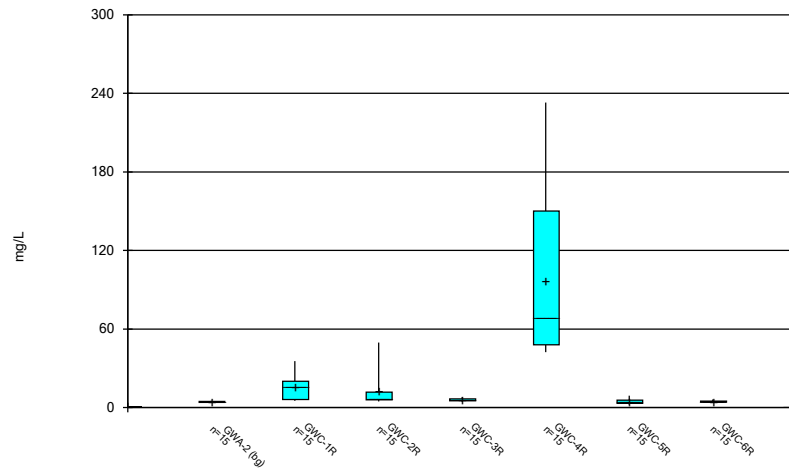
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Box & Whiskers Plot



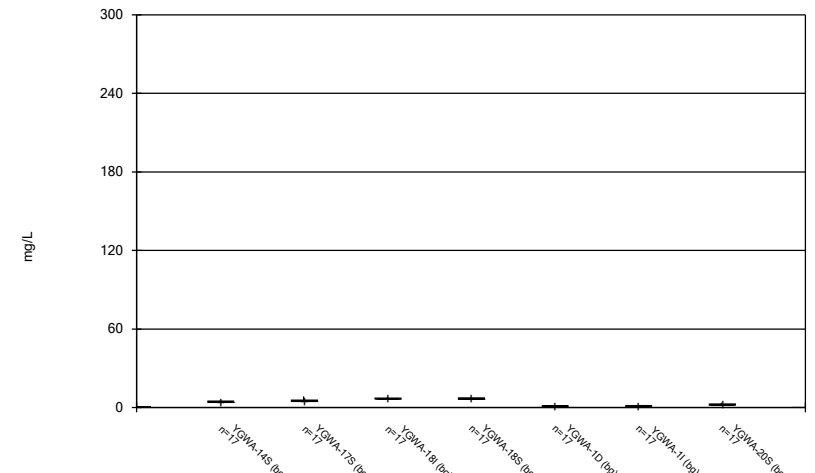
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Box & Whiskers Plot



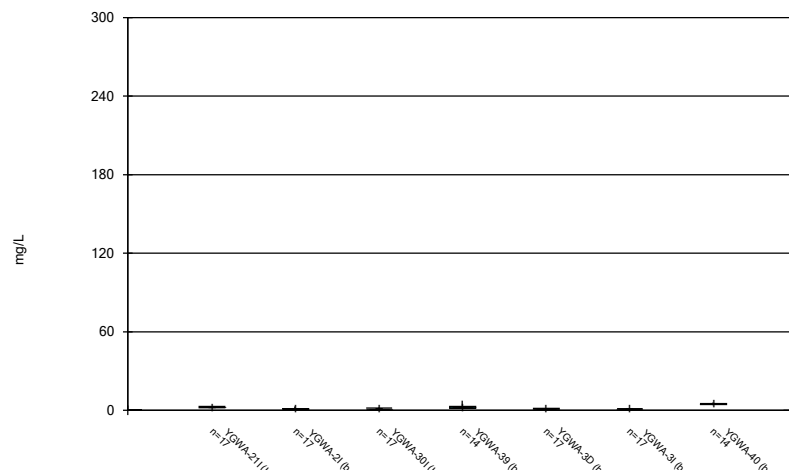
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Box & Whiskers Plot



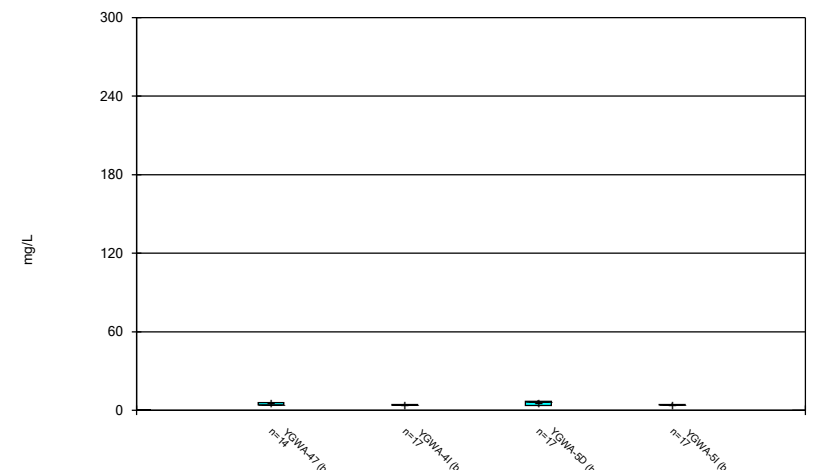
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Box & Whiskers Plot



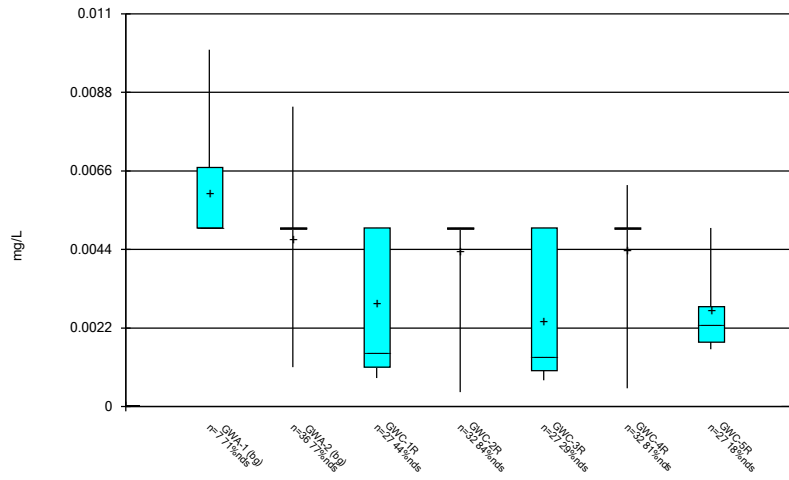
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Box & Whiskers Plot



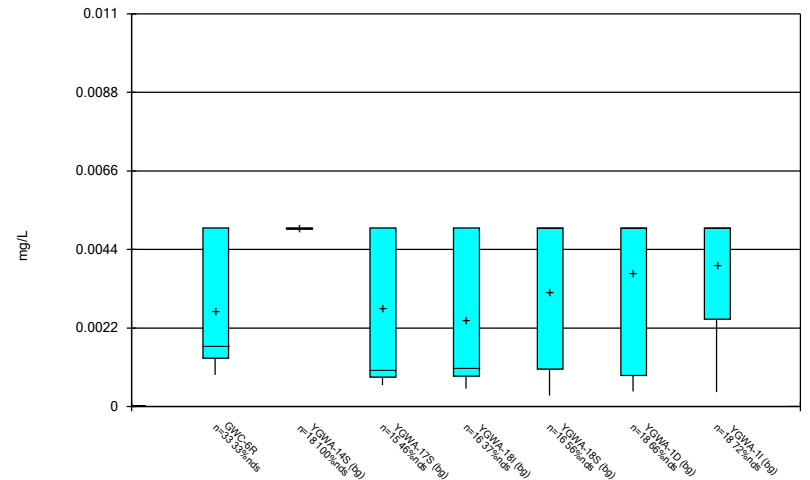
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Box & Whiskers Plot



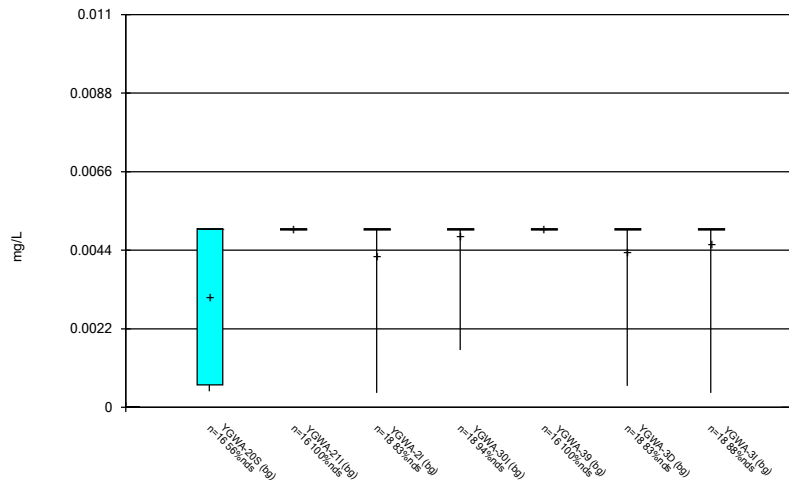
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Box & Whiskers Plot



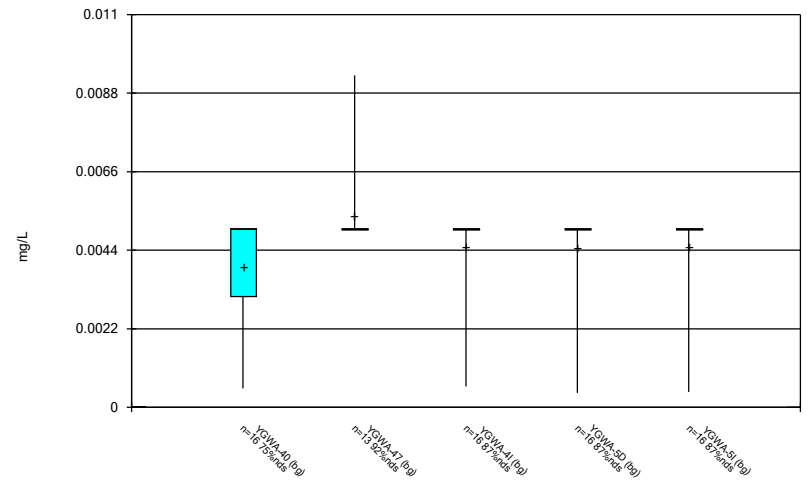
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Box & Whiskers Plot



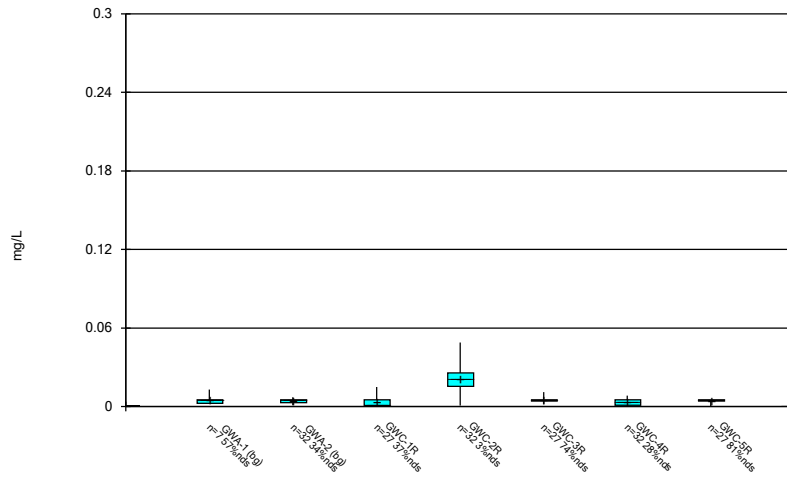
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Box & Whiskers Plot



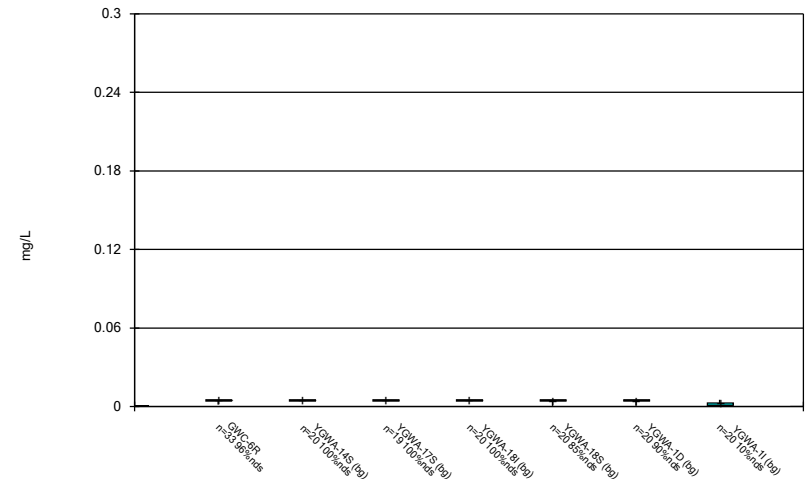
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Box & Whiskers Plot



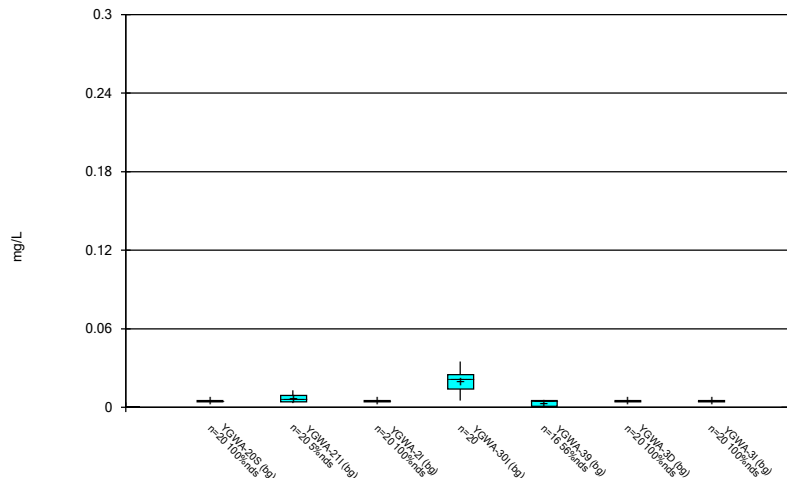
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Box & Whiskers Plot



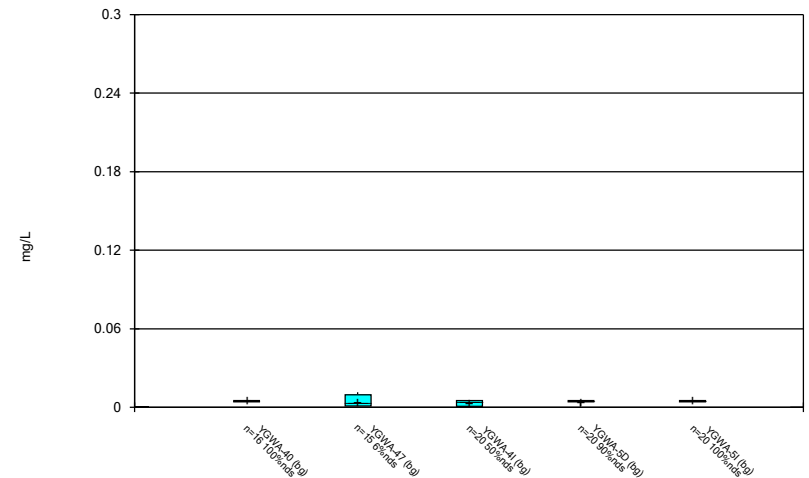
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Box & Whiskers Plot



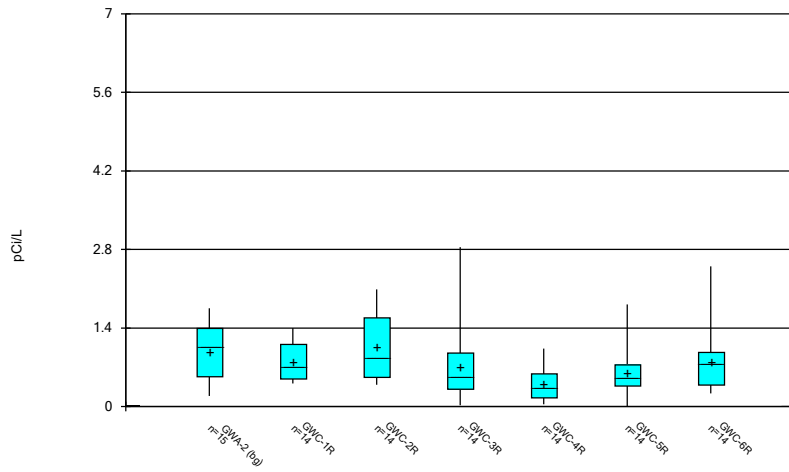
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Box & Whiskers Plot



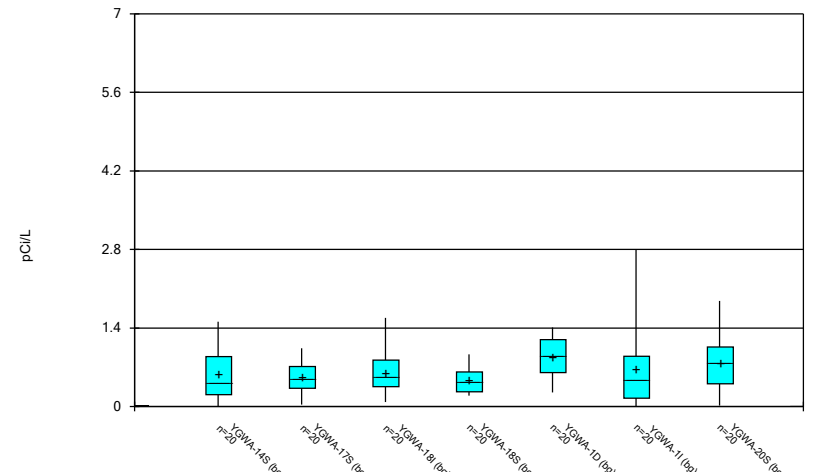
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Box & Whiskers Plot



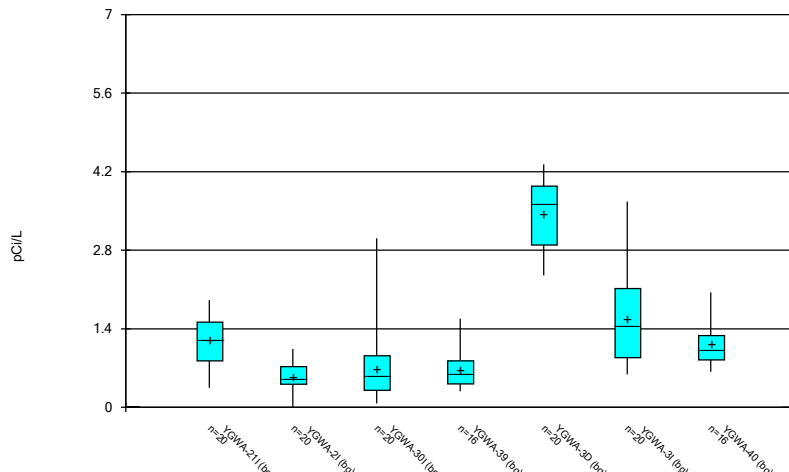
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Box & Whiskers Plot



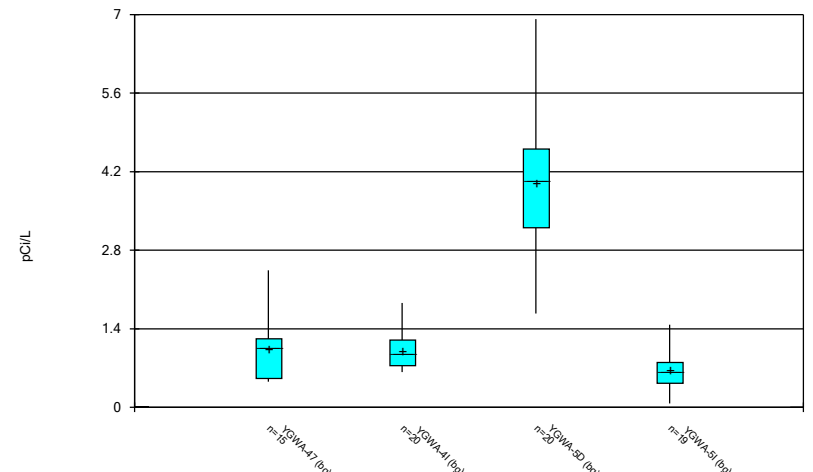
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Box & Whiskers Plot



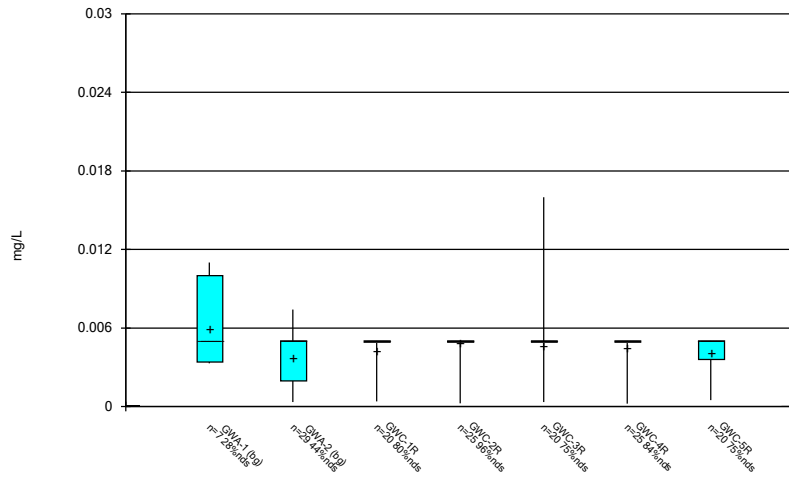
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Box & Whiskers Plot



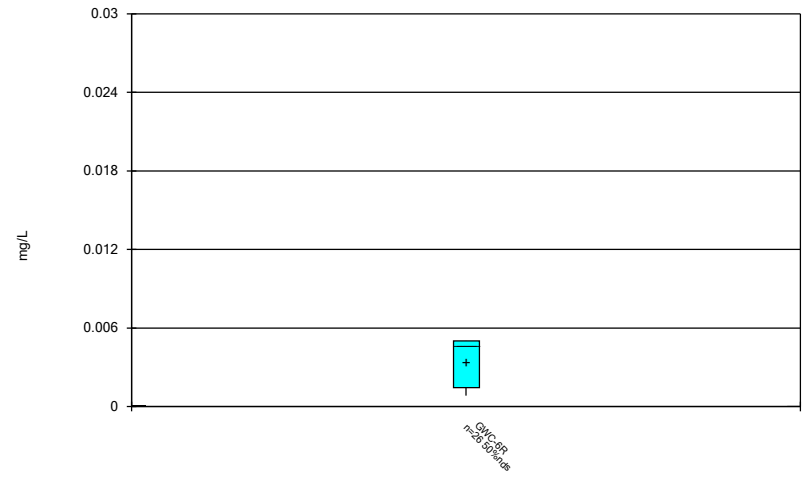
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Box & Whiskers Plot



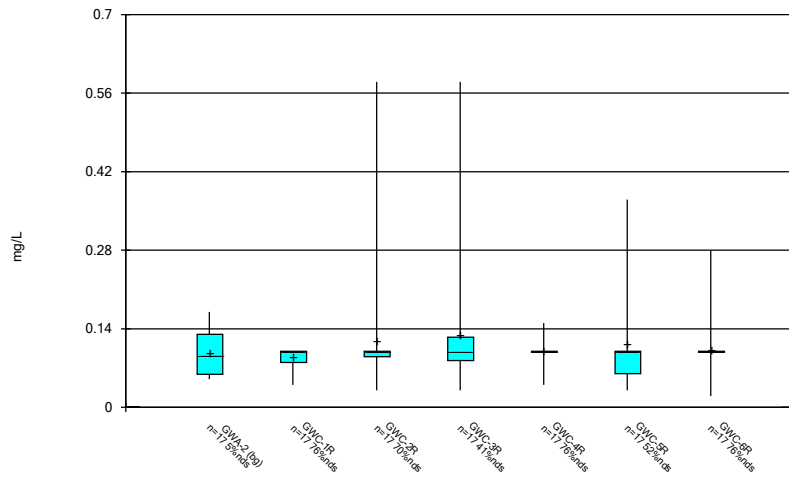
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Box & Whiskers Plot



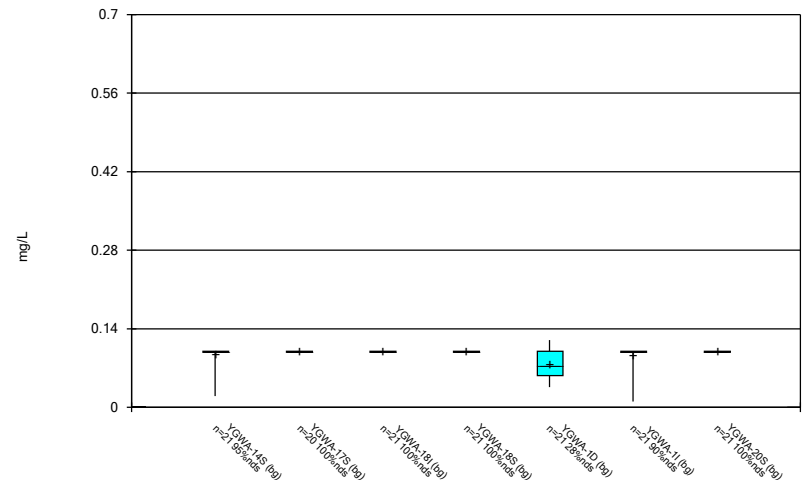
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Box & Whiskers Plot



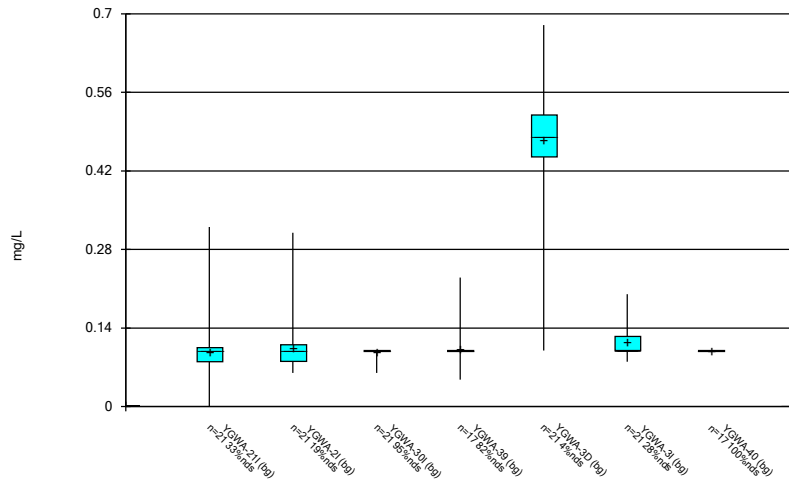
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Box & Whiskers Plot



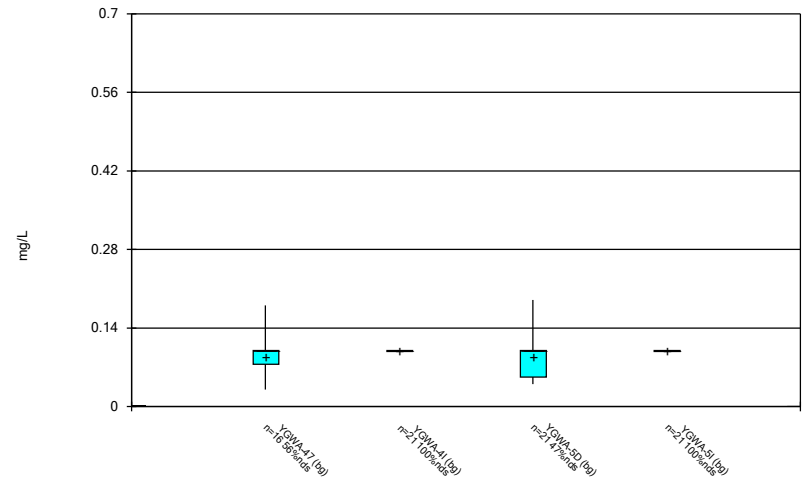
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Box & Whiskers Plot



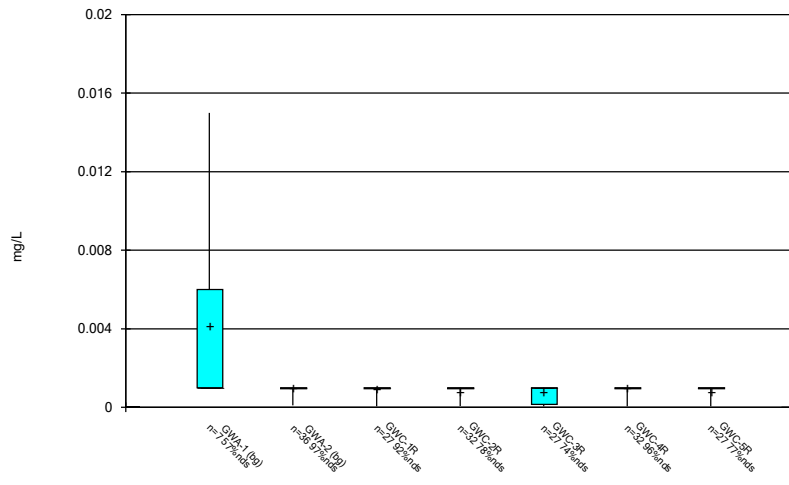
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Box & Whiskers Plot



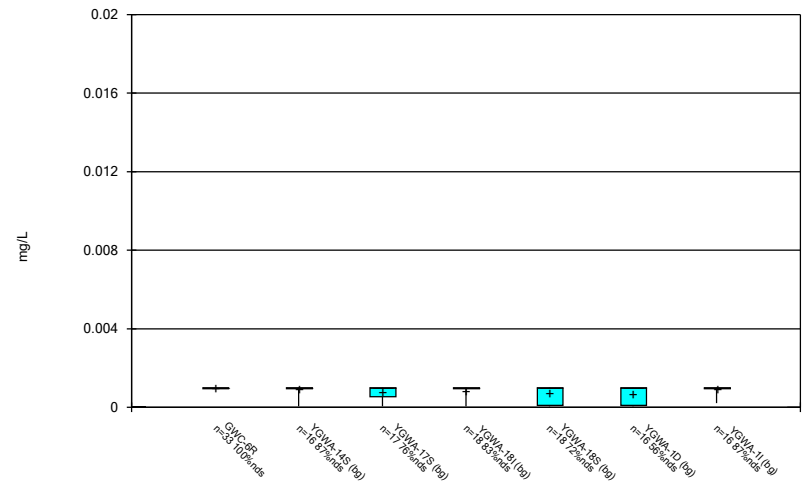
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Box & Whiskers Plot



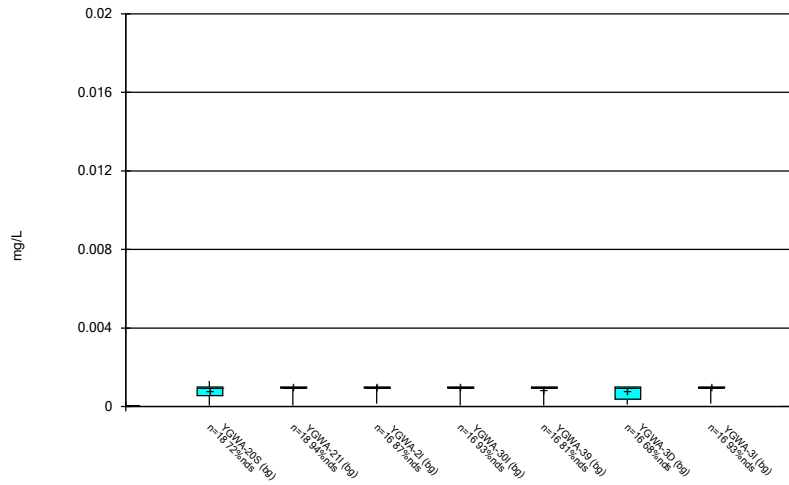
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Box & Whiskers Plot



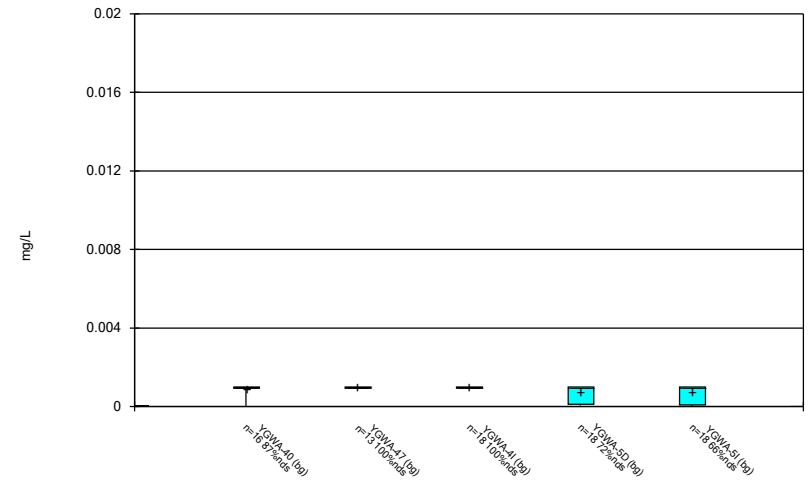
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Box & Whiskers Plot



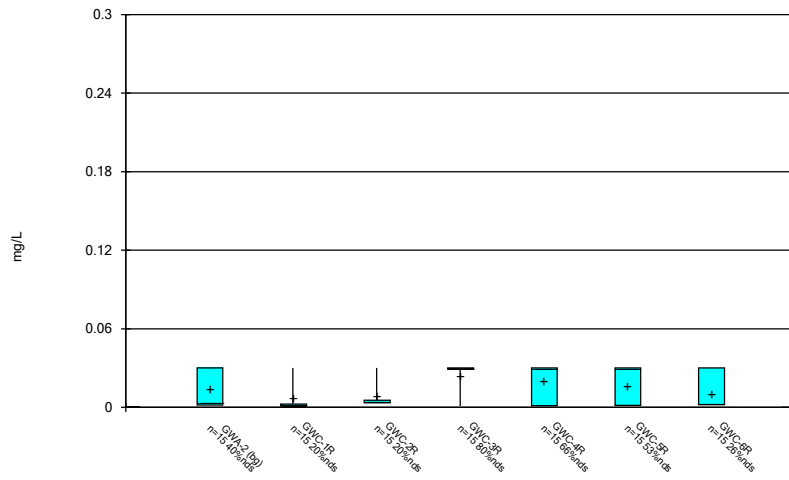
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Box & Whiskers Plot



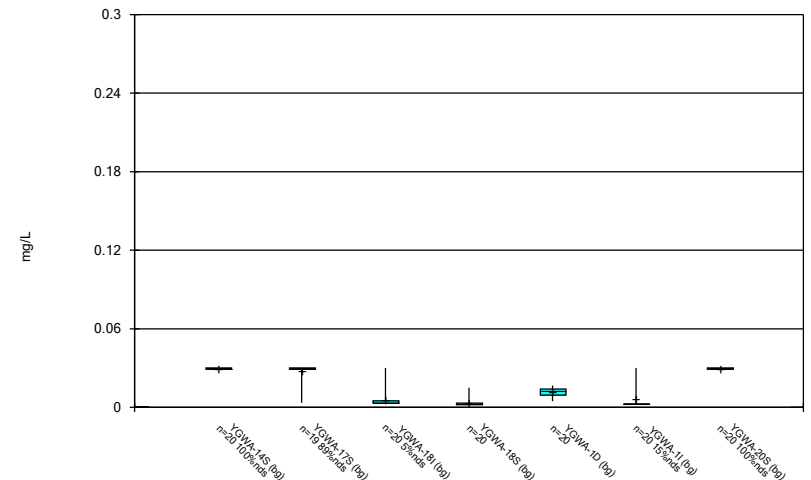
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Box & Whiskers Plot



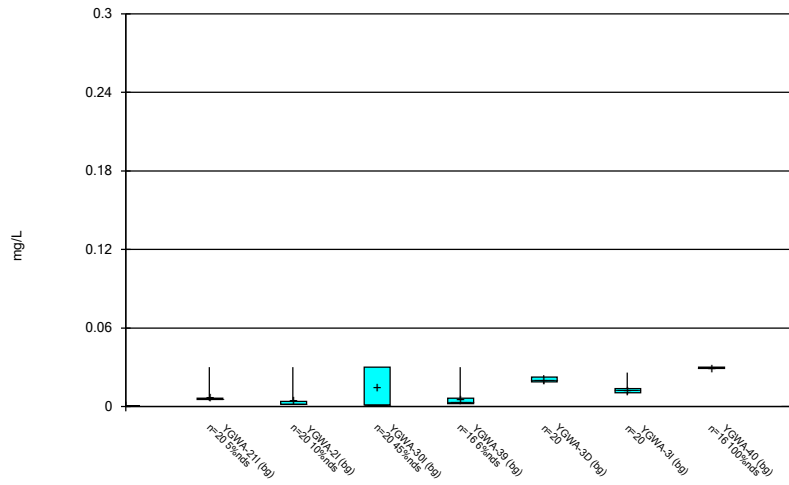
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Box & Whiskers Plot



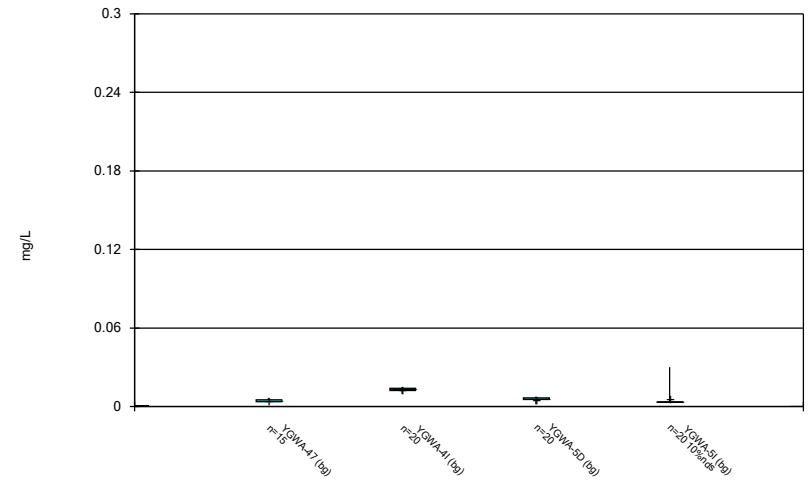
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Box & Whiskers Plot



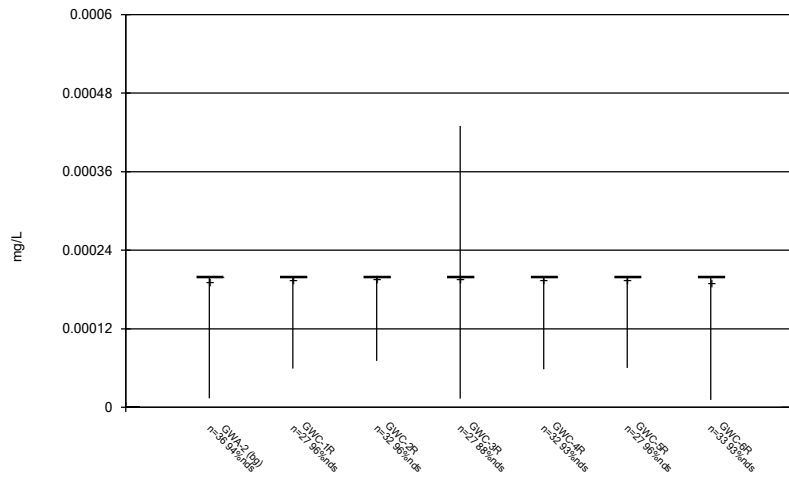
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Box & Whiskers Plot



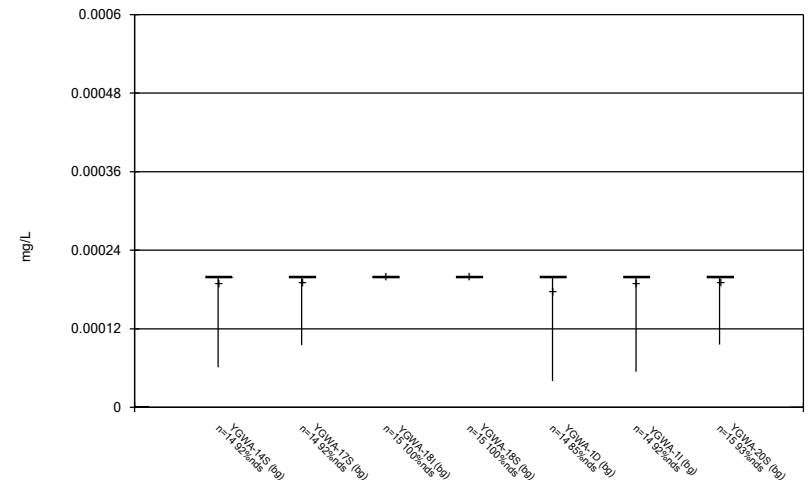
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Box & Whiskers Plot



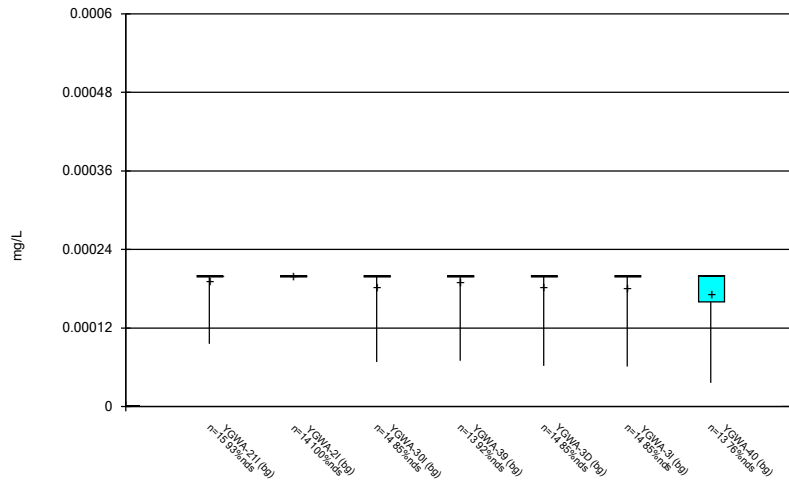
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Box & Whiskers Plot



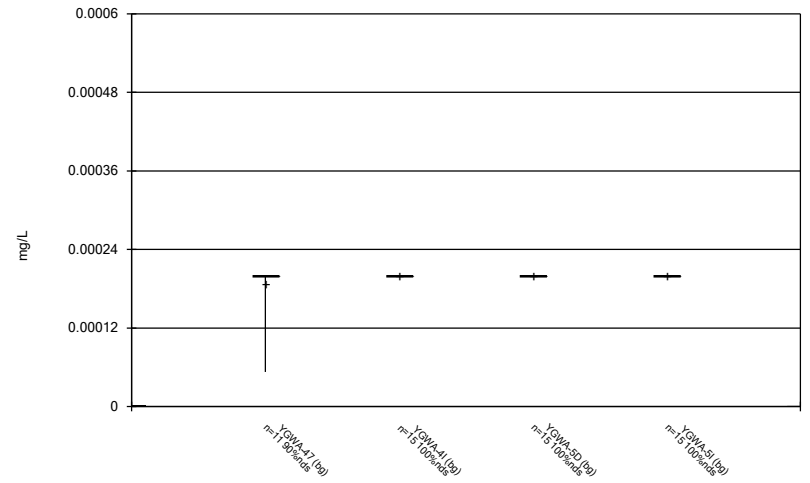
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Box & Whiskers Plot



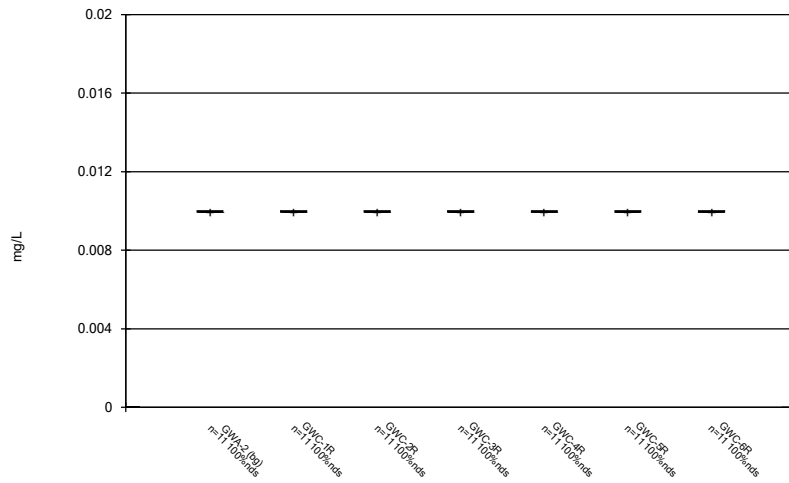
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



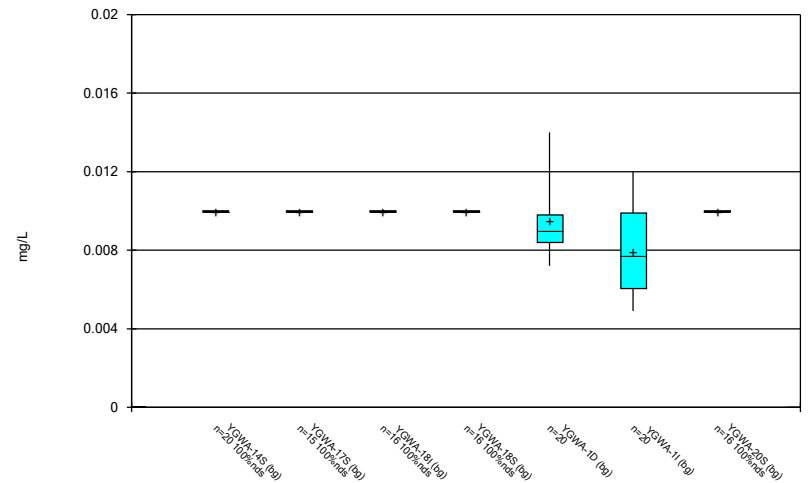
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Box & Whiskers Plot



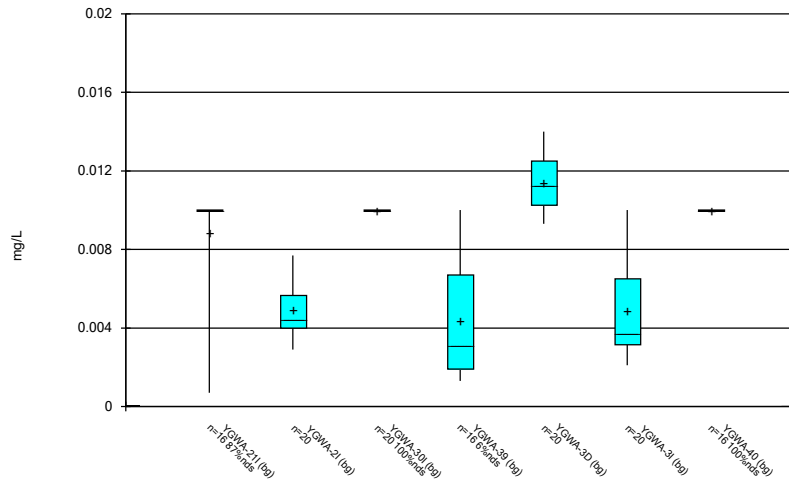
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Box & Whiskers Plot



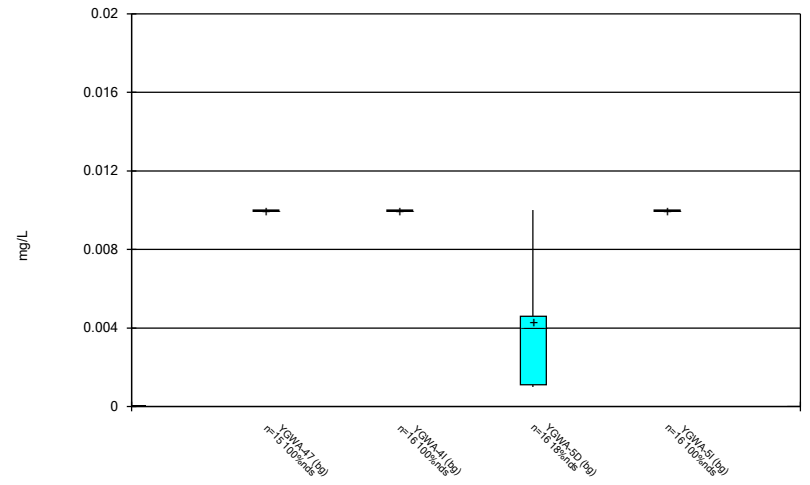
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Box & Whiskers Plot



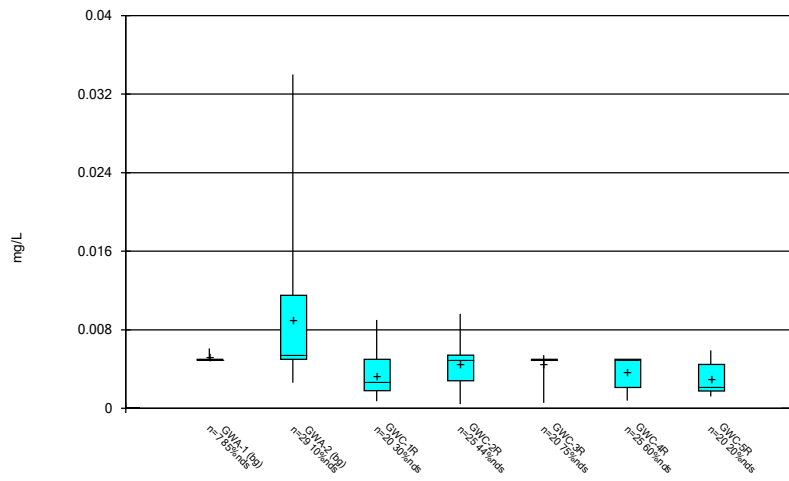
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Box & Whiskers Plot



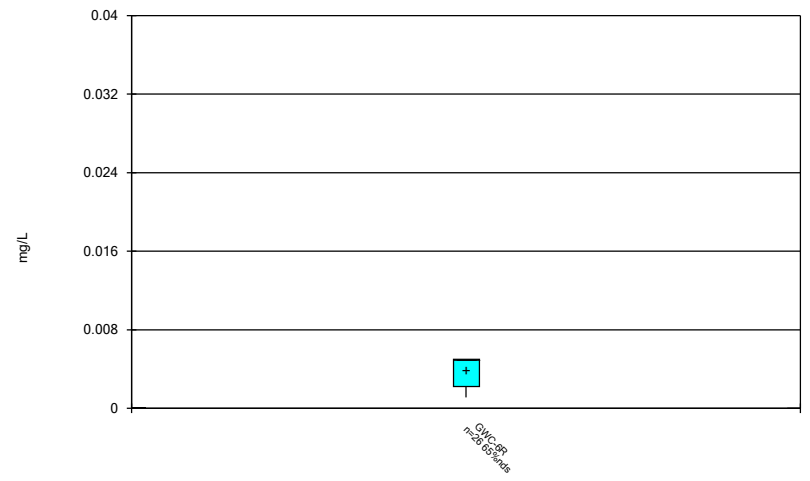
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Box & Whiskers Plot



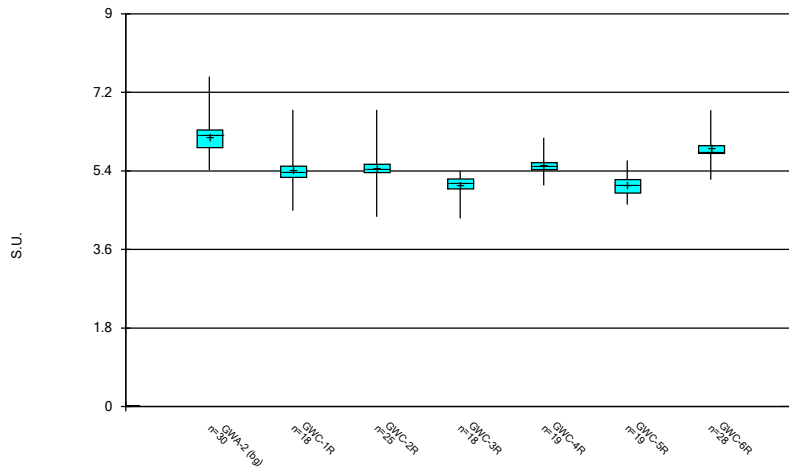
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Box & Whiskers Plot



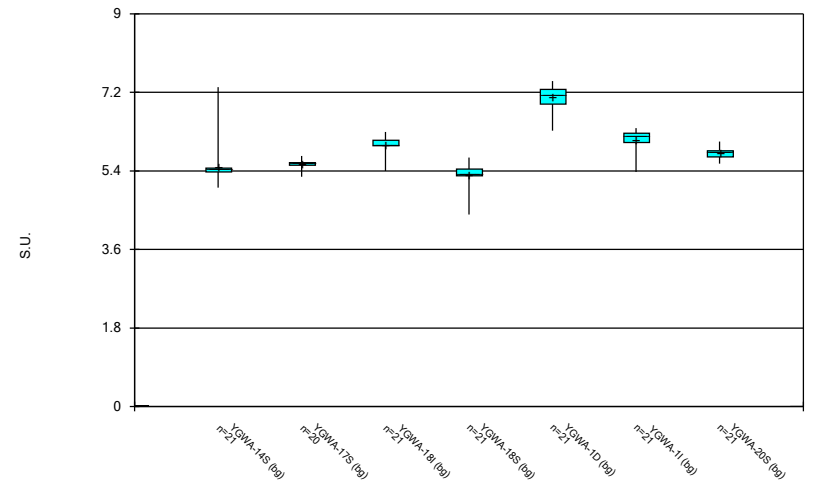
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



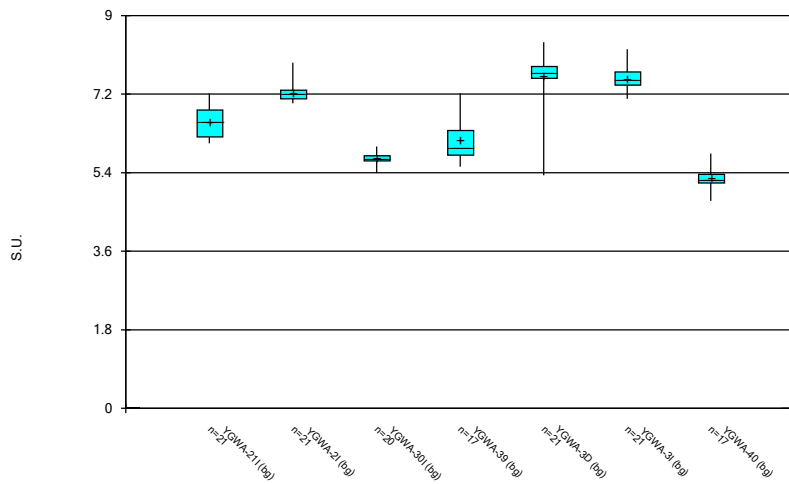
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Box & Whiskers Plot



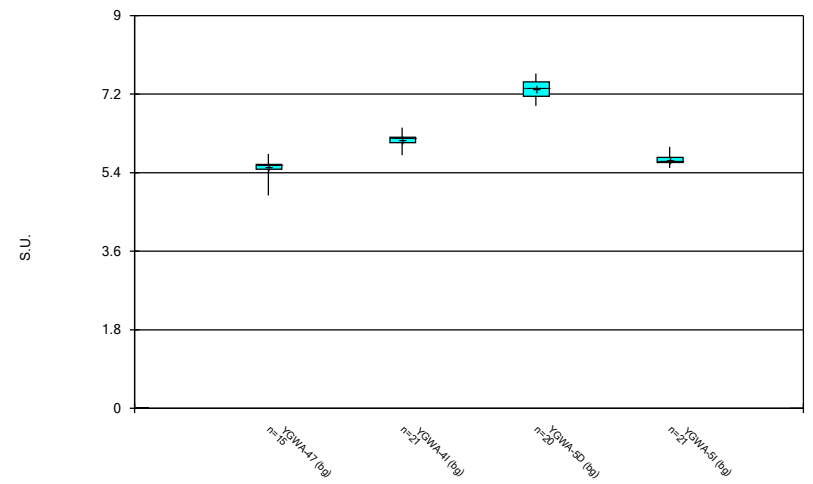
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Box & Whiskers Plot



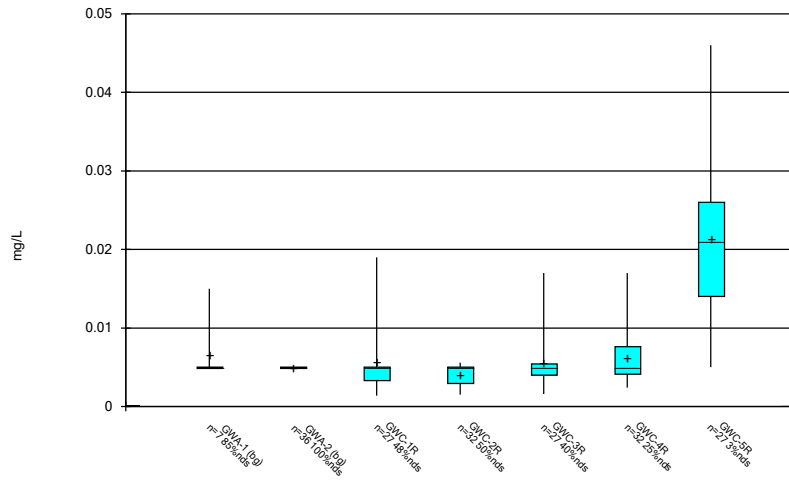
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Box & Whiskers Plot



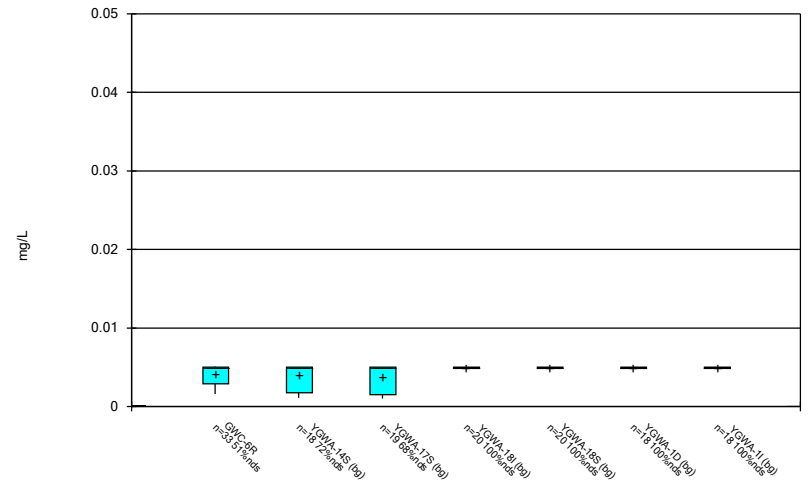
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



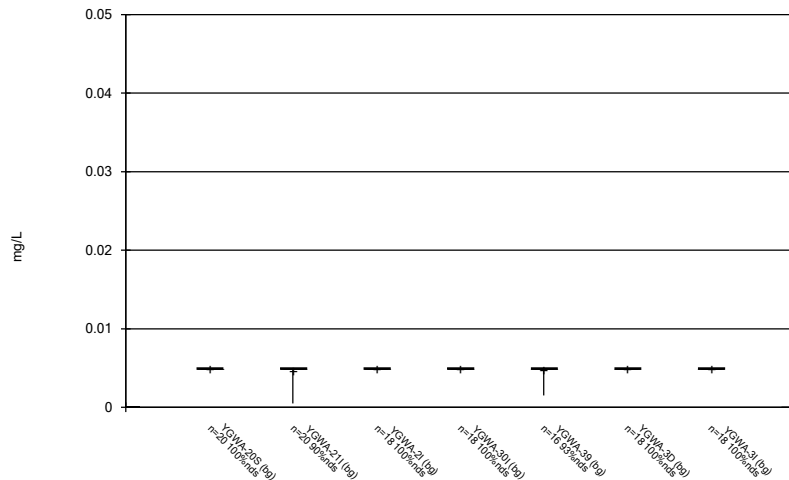
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Box & Whiskers Plot



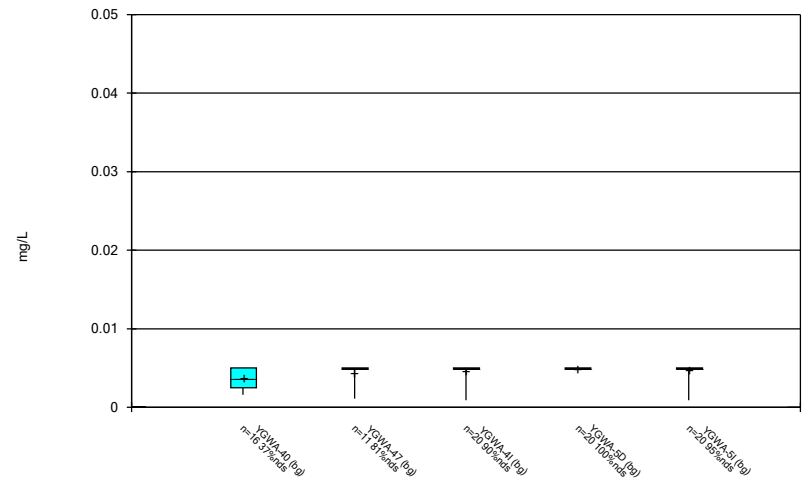
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



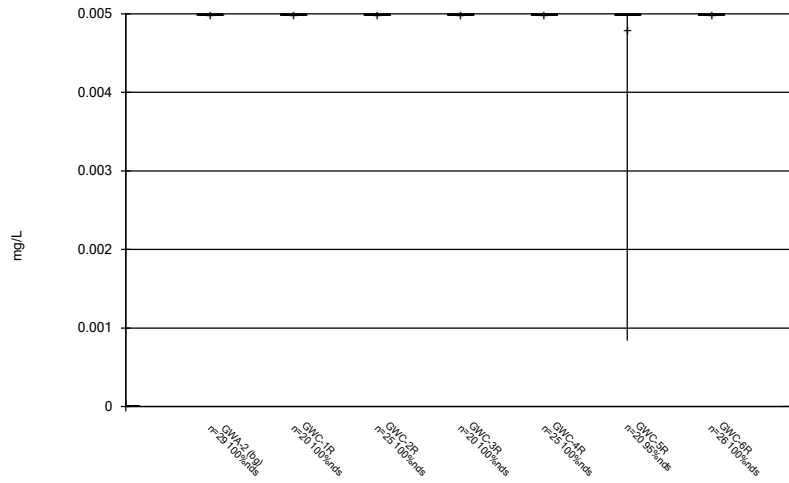
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Box & Whiskers Plot



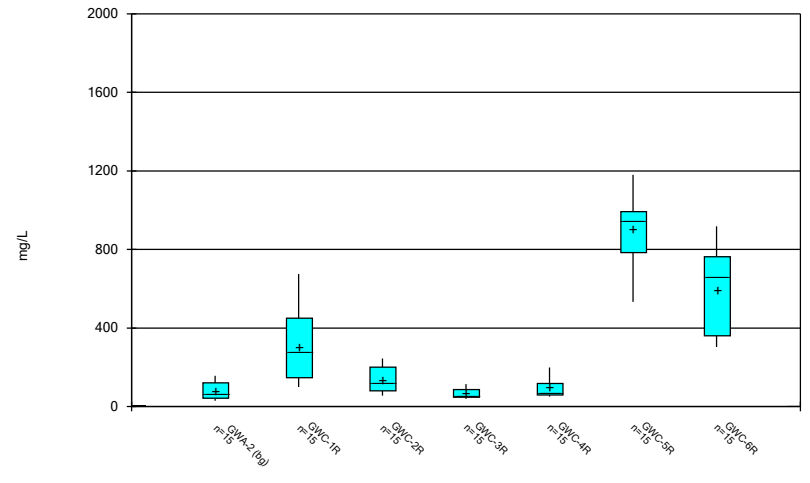
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Box & Whiskers Plot



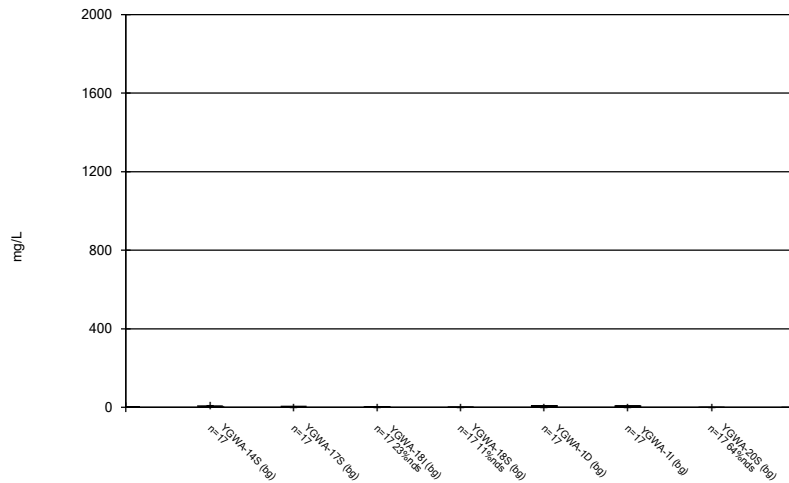
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Box & Whiskers Plot



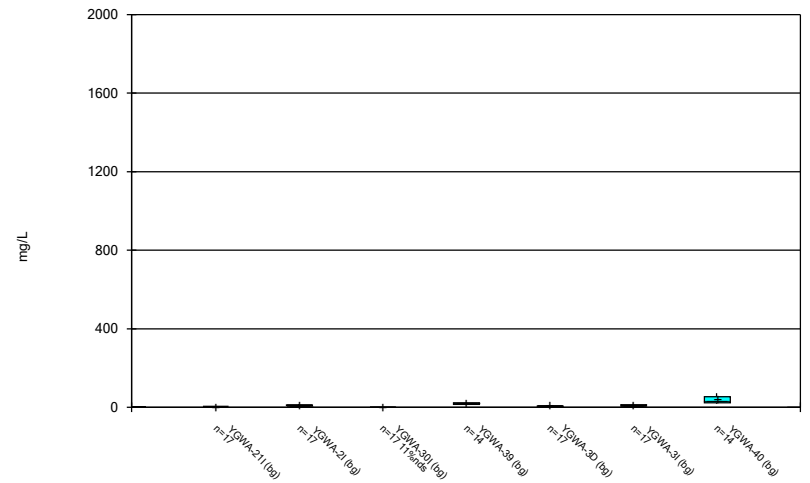
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Box & Whiskers Plot



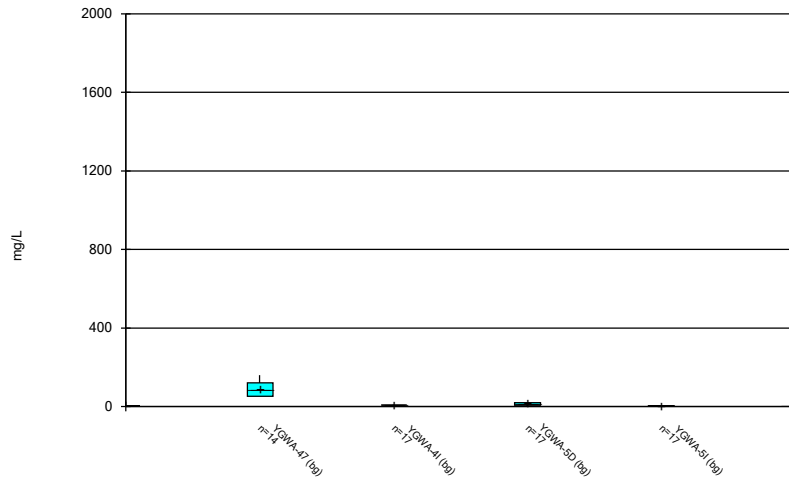
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Box & Whiskers Plot



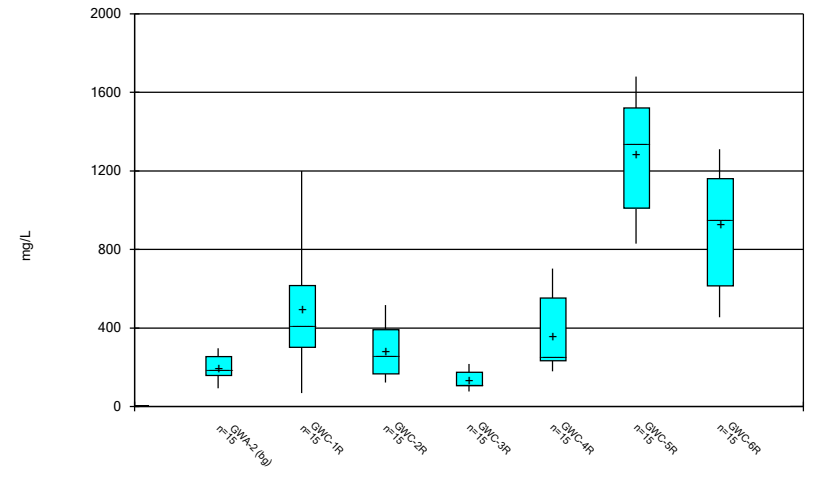
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Box & Whiskers Plot



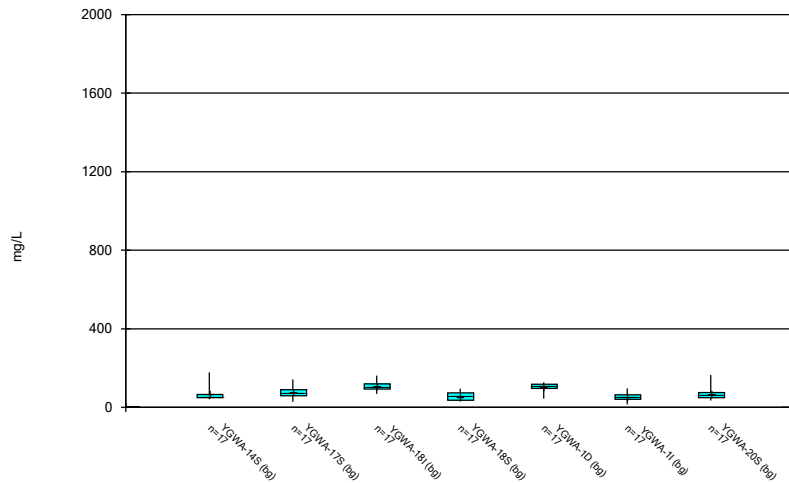
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Box & Whiskers Plot



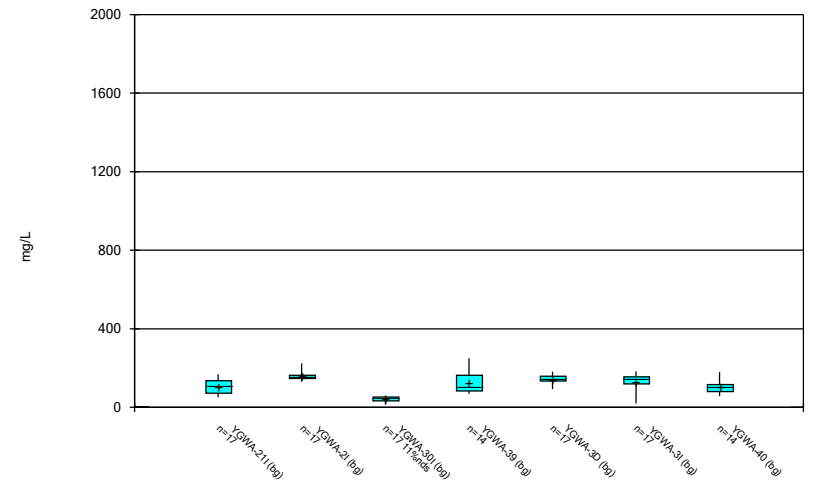
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Box & Whiskers Plot



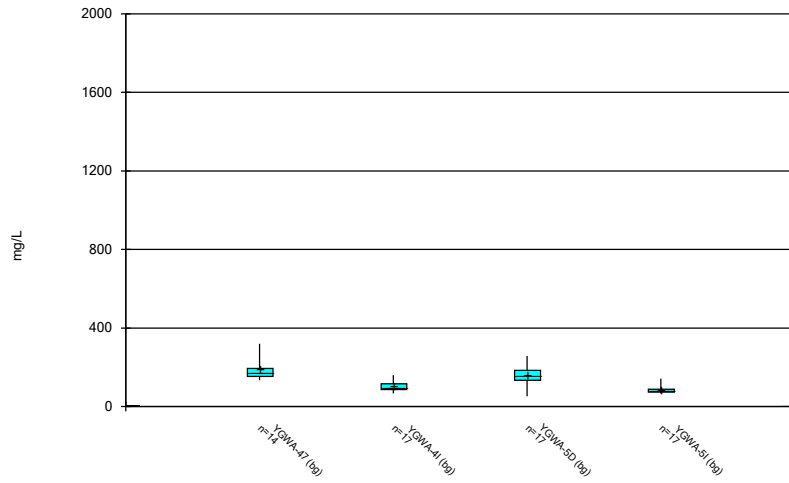
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



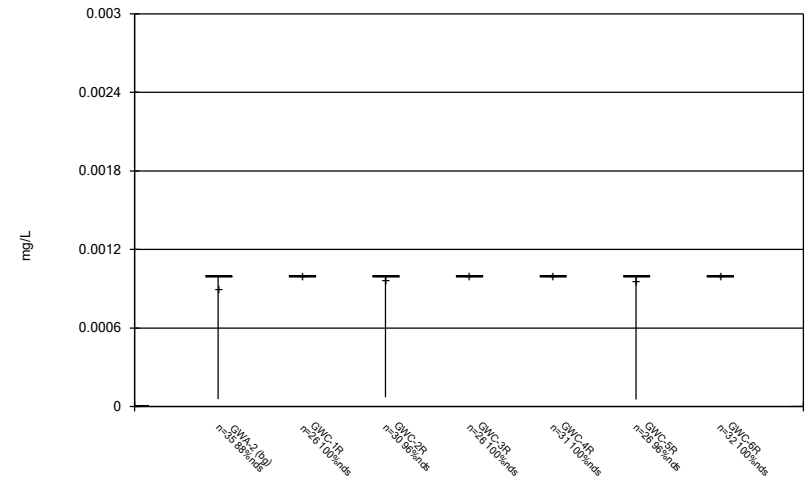
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



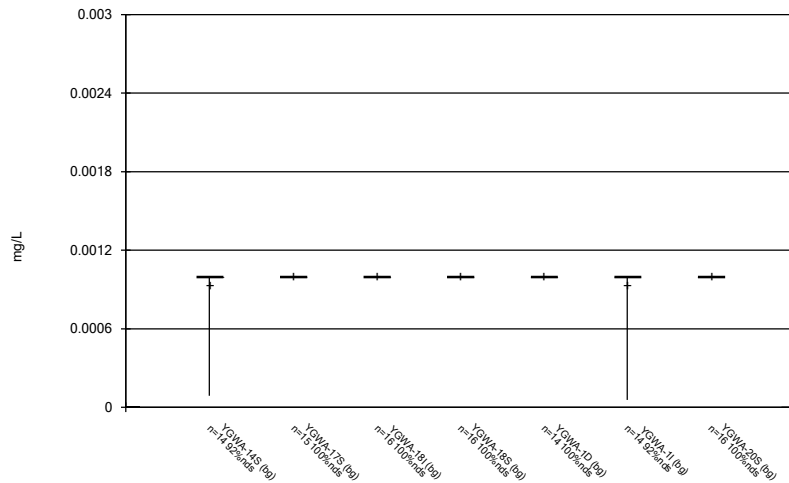
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



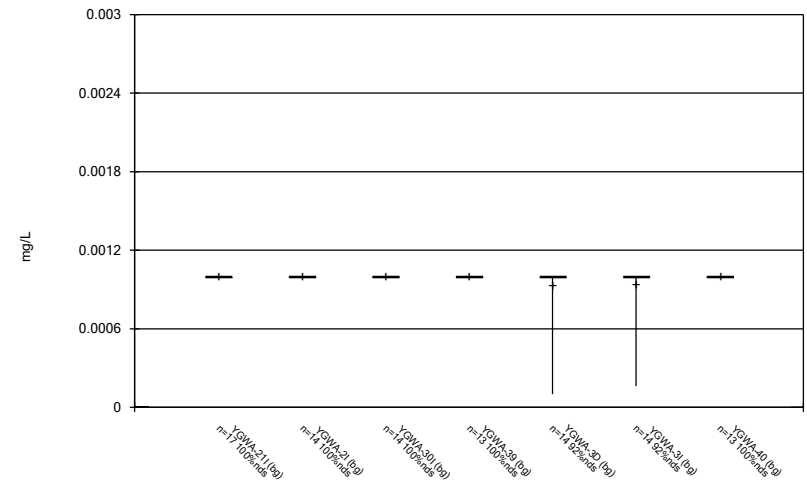
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Box & Whiskers Plot



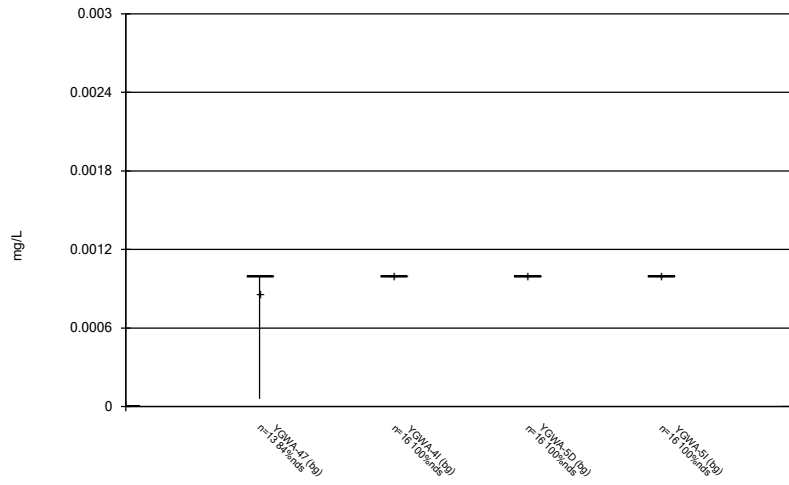
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Box & Whiskers Plot



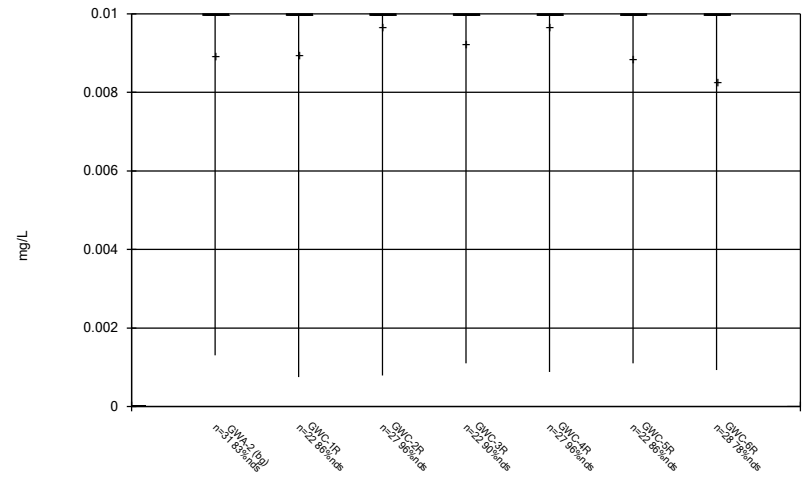
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Box & Whiskers Plot



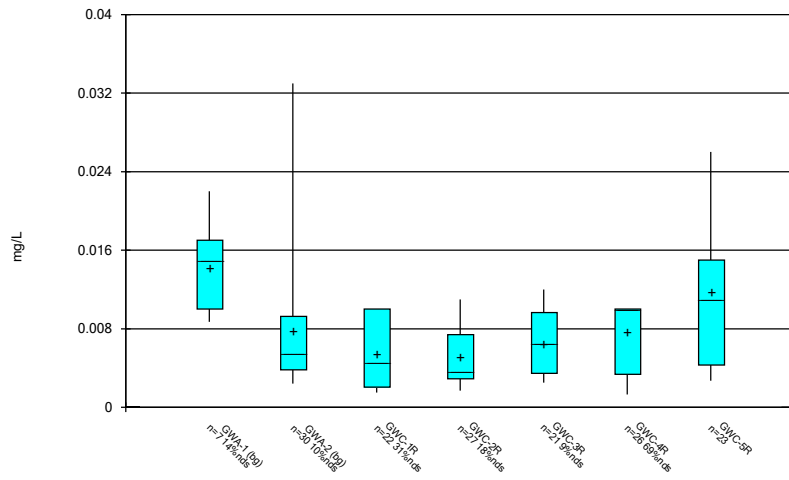
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Box & Whiskers Plot



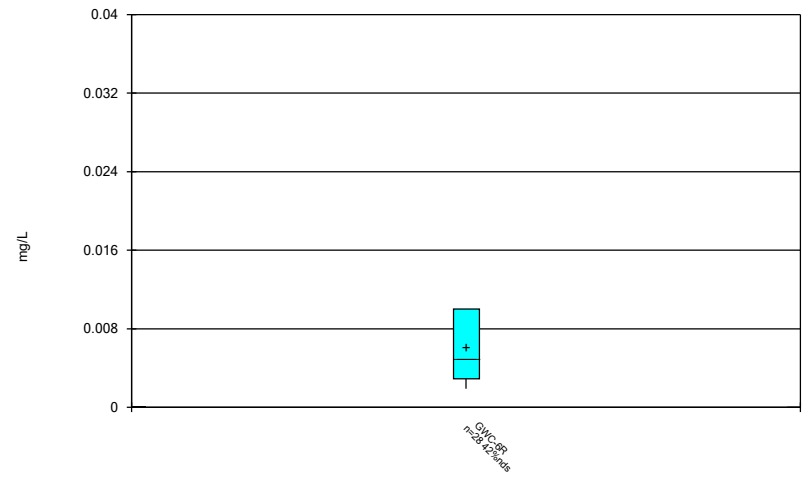
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



Constituent: Zinc Analysis Run 10/29/2021 3:40 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



Constituent: Zinc Analysis Run 10/29/2021 3:40 PM View: Descriptive
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

FIGURE C.

Outlier Summary

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 10:19 AM

GWA-2 Cobalt (mg/L)
GWA-2 Zinc (mg/L)
GWC-3R Zinc (mg/L)
GWC-4R Zinc (mg/L)

3/11/2011			0.025 (o)
2/5/2014	0.018 (o)	0.026 (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 I & II Intrawell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 8:05 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Beryllium (mg/L)	GWC-5R	0.003	n/a	8/18/2021	0.0033	Yes	18	n/a	n/a	38.89	n/a	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Cobalt (mg/L)	GWC-3R	0.005	n/a	8/18/2021	0.01	Yes	18	n/a	n/a	100	n/a	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-1R	0.01	n/a	8/18/2021	0.019	Yes	18	n/a	n/a	66.67	n/a	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-3R	0.01	n/a	8/18/2021	0.017	Yes	18	n/a	n/a	61.11	n/a	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-2	0.009584	n/a	8/20/2021	0.014	Yes	23	0.004991	0.002	4.348	None	No	No	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-5R	0.01798	n/a	8/18/2021	0.026	Yes	15	0.00738	0.004189	0	None	No	No	0.0005852	Param Intra 1 of 2

Appendix I & II Intrawell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 8:05 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-2	0.003	n/a	8/20/2021	0.003ND	No	27	n/a	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-2R	0.003	n/a	8/18/2021	0.003ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-4R	0.003	n/a	8/18/2021	0.003ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-5R	0.003	n/a	8/18/2021	0.003ND	No	18	n/a	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-2	0.005	n/a	8/20/2021	0.005ND	No	27	n/a	n/a	n/a	100	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-1R	0.005	n/a	8/18/2021	0.0016J	No	18	n/a	n/a	n/a	88.89	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-2R	0.005	n/a	8/18/2021	0.005ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-3R	0.005	n/a	8/18/2021	0.0028J	No	18	n/a	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-4R	0.005	n/a	8/18/2021	0.005ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-5R	0.005	n/a	8/18/2021	0.0021J	No	18	n/a	n/a	n/a	72.22	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-6R	0.005	n/a	8/18/2021	0.005ND	No	24	n/a	n/a	n/a	83.33	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWA-2	0.07943	n/a	8/20/2021	0.036	No	27	0.05023	0.01305	0	None	No	0.0005852	Param Intra 1 of 2	
Barium (mg/L)	GWC-1R	0.09203	n/a	8/18/2021	0.076	No	18	0.04614	0.01903	0	None	No	0.0005852	Param Intra 1 of 2	
Barium (mg/L)	GWC-2R	0.13	n/a	8/18/2021	0.033	No	23	n/a	n/a	0	n/a	n/a	0.003415	NP Intra (normality) 1 of 2	
Barium (mg/L)	GWC-3R	0.1072	n/a	8/18/2021	0.014	No	18	0.1832	0.05976	0	None	sqrt(x)	0.0005852	Param Intra 1 of 2	
Barium (mg/L)	GWC-4R	0.0778	n/a	8/18/2021	0.04	No	19	0.1732	0.04443	0	None	sqrt(x)	0.0005852	Param Intra 1 of 2	
Barium (mg/L)	GWC-5R	0.06311	n/a	8/18/2021	0.013	No	14	0.03304	0.01162	0	None	No	0.0005852	Param Intra 1 of 2	
Barium (mg/L)	GWC-6R	0.1025	n/a	8/18/2021	0.035	No	24	0.04776	0.02401	0	None	No	0.0005852	Param Intra 1 of 2	
Beryllium (mg/L)	GWC-1R	0.003	n/a	8/18/2021	0.0003J	No	18	n/a	n/a	n/a	66.67	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-2R	0.003	n/a	8/18/2021	0.00022J	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-3R	0.003	n/a	8/18/2021	0.0011	No	18	n/a	n/a	n/a	38.89	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWC-4R	0.003	n/a	8/18/2021	0.00011J	No	23	n/a	n/a	n/a	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-5R	0.003	n/a	8/18/2021	0.0033	Yes	18	n/a	n/a	38.89	n/a	n/a	0.005373	NP Intra (normality) 1 of 2	
Cadmium (mg/L)	GWC-1R	0.0025	n/a	8/18/2021	0.00017J	No	18	n/a	n/a	n/a	94.44	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-2R	0.0025	n/a	8/18/2021	0.00016J	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-3R	0.0025	n/a	8/18/2021	0.00022J	No	18	n/a	n/a	n/a	88.89	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-4R	0.0005	n/a	8/18/2021	0.0005ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-5R	0.001	n/a	8/18/2021	0.001	No	18	n/a	n/a	n/a	44.44	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWA-2	0.0084	n/a	8/20/2021	0.005ND	No	27	n/a	n/a	n/a	70.37	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-1R	0.01	n/a	8/18/2021	0.0015J	No	18	n/a	n/a	n/a	61.11	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-2R	0.005	n/a	8/18/2021	0.005ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-3R	0.005	n/a	8/18/2021	0.005ND	No	18	n/a	n/a	n/a	33.33	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-4R	0.0062	n/a	8/18/2021	0.005ND	No	23	n/a	n/a	n/a	82.61	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-5R	0.01	n/a	8/18/2021	0.0023J	No	18	n/a	n/a	n/a	27.78	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-6R	0.01	n/a	8/18/2021	0.0015J	No	24	n/a	n/a	n/a	41.67	n/a	n/a	0.003124	NP Intra (normality) 1 of 2
Cobalt (mg/L)	GWA-2	0.006994	n/a	3/17/2020	0.003J	No	27	0.003556	0.001537	40.74	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2	
Cobalt (mg/L)	GWC-1R	0.008717	n/a	8/18/2021	0.0014J	No	18	-6.613	0.7756	50	Kaplan-Meier	ln(x)	0.0005852	Param Intra 1 of 2	
Cobalt (mg/L)	GWC-2R	0.04742	n/a	8/18/2021	0.00066J	No	23	0.02477	0.009863	4.348	None	No	0.0005852	Param Intra 1 of 2	
Cobalt (mg/L)	GWC-3R	0.005	n/a	8/18/2021	0.01	Yes	18	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2	
Cobalt (mg/L)	GWC-4R	0.007137	n/a	8/18/2021	0.0027J	No	23	0.002697	0.001934	34.78	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2	
Cobalt (mg/L)	GWC-5R	0.005	n/a	8/18/2021	0.00053J	No	18	n/a	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-6R	0.005	n/a	8/18/2021	0.005ND	No	24	n/a	n/a	n/a	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-2	0.025	n/a	8/20/2021	0.0012J	No	22	n/a	n/a	n/a	54.55	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-1R	0.005	n/a	8/18/2021	0.00067J	No	13	n/a	n/a	n/a	92.31	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-2R	0.005	n/a	8/18/2021	0.005ND	No	18	n/a	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-3R	0.016	n/a	8/18/2021	0.005ND	No	13	n/a	n/a	n/a	76.92	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-4R	0.005	n/a	8/18/2021	0.005ND	No	18	n/a	n/a	n/a	88.89	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-5R	0.005	n/a	8/18/2021	0.0022J	No	13	n/a	n/a	n/a	92.31	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-6R	0.005	n/a	8/18/2021	0.00083J	No	19	n/a	n/a	n/a	57.89	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWA-2	0.001	n/a	8/20/2021	0.001ND	No	27	n/a	n/a	n/a	100	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2

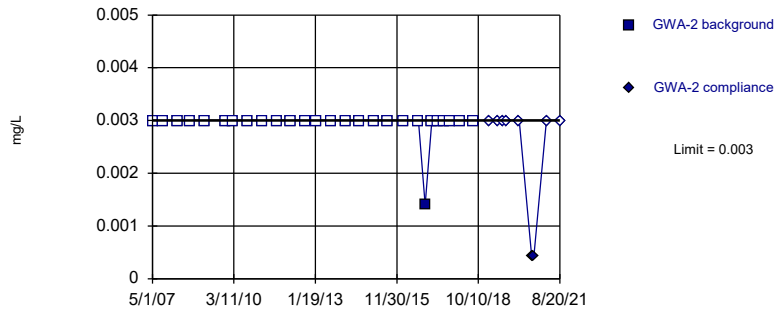
Appendix I & II Intrawell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 8:05 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBq	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	GWC-1R	0.001	n/a	8/18/2021	0.001ND	No	18	n/a	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-2R	0.001	n/a	8/18/2021	0.001ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-3R	0.001	n/a	8/18/2021	0.001ND	No	18	n/a	n/a	n/a	88.89	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-4R	0.001	n/a	8/18/2021	0.001ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-5R	0.001	n/a	8/18/2021	0.001ND	No	18	n/a	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWA-2	0.0002	n/a	8/20/2021	0.0002ND	No	27	n/a	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-1R	0.0002	n/a	8/18/2021	0.0002ND	No	18	n/a	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-2R	0.0002	n/a	8/18/2021	0.0002ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-3R	0.0002	n/a	8/18/2021	0.0002ND	No	18	n/a	n/a	n/a	94.44	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-4R	0.0002	n/a	8/18/2021	0.0002ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-5R	0.0002	n/a	8/18/2021	0.0002ND	No	18	n/a	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-6R	0.0002	n/a	8/18/2021	0.0002ND	No	24	n/a	n/a	n/a	95.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-2	0.021	n/a	8/20/2021	0.014	No	22	n/a	n/a	n/a	13.64	n/a	n/a	0.003707	NP Intra (normality) 1 of 2
Nickel (mg/L)	GWC-1R	0.01331	n/a	8/18/2021	0.0028J	No	13	-6.05	0.655	38.46	Kaplan-Meier	ln(x)	0.0005852	Param Intra 1 of 2	
Nickel (mg/L)	GWC-2R	0.01015	n/a	8/18/2021	0.005ND	No	18	0.003546	0.00274	44.44	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2	
Nickel (mg/L)	GWC-3R	0.0054	n/a	8/18/2021	0.005ND	No	13	n/a	n/a	69.23	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2	
Nickel (mg/L)	GWC-4R	0.01	n/a	8/18/2021	0.0026J	No	18	n/a	n/a	77.78	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2	
Nickel (mg/L)	GWC-5R	0.005956	n/a	8/18/2021	0.0016J	No	13	0.002281	0.00139	30.77	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2	
Nickel (mg/L)	GWC-6R	0.005	n/a	8/18/2021	0.0012J	No	19	n/a	n/a	89.47	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2	
Selenium (mg/L)	GWC-1R	0.01	n/a	8/18/2021	0.019	Yes	18	n/a	n/a	66.67	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2	
Selenium (mg/L)	GWC-2R	0.01	n/a	8/18/2021	0.0042J	No	23	n/a	n/a	69.57	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2	
Selenium (mg/L)	GWC-3R	0.01	n/a	8/18/2021	0.017	Yes	18	n/a	n/a	61.11	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2	
Selenium (mg/L)	GWC-4R	0.01548	n/a	8/18/2021	0.0046J	No	23	0.007285	0.003569	34.78	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2	
Selenium (mg/L)	GWC-5R	0.04273	n/a	8/18/2021	0.017	No	18	0.1371	0.02884	5.556	None	sqrt(x)	0.0005852	Param Intra 1 of 2	
Selenium (mg/L)	GWC-6R	0.01	n/a	8/18/2021	0.0016J	No	24	n/a	n/a	70.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2	
Silver (mg/L)	GWC-5R	0.005	n/a	8/18/2021	0.00084J	No	13	n/a	n/a	100	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2	
Thallium (mg/L)	GWA-2	0.001	n/a	8/20/2021	0.001ND	No	26	n/a	n/a	n/a	88.46	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-2R	0.001	n/a	8/18/2021	0.001ND	No	21	n/a	n/a	n/a	95.24	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-5R	0.001	n/a	8/18/2021	0.001ND	No	17	n/a	n/a	n/a	100	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-2	0.01	n/a	8/20/2021	0.01ND	No	24	n/a	n/a	n/a	83.33	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-1R	0.01	n/a	8/18/2021	0.01ND	No	15	n/a	n/a	n/a	80	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-2R	0.01	n/a	8/18/2021	0.01ND	No	20	n/a	n/a	n/a	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-3R	0.01	n/a	8/18/2021	0.01ND	No	15	n/a	n/a	n/a	100	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-4R	0.01	n/a	8/18/2021	0.01ND	No	20	n/a	n/a	n/a	100	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-5R	0.01	n/a	8/18/2021	0.01ND	No	15	n/a	n/a	n/a	80	n/a	n/a	0.007533	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-6R	0.01	n/a	8/18/2021	0.01ND	No	21	n/a	n/a	n/a	76.19	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-2	0.009584	n/a	8/20/2021	0.014	Yes	23	0.004991	0.002	4.348	None	No	0.0005852	Param Intra 1 of 2	
Zinc (mg/L)	GWC-1R	0.007102	n/a	8/18/2021	0.01ND	No	15	0.05264	0.0125	20	Kaplan-Meier	sqrt(x)	0.0005852	Param Intra 1 of 2	
Zinc (mg/L)	GWC-2R	0.01249	n/a	8/18/2021	0.01ND	No	20	0.0653	0.01977	10	None	sqrt(x)	0.0005852	Param Intra 1 of 2	
Zinc (mg/L)	GWC-3R	0.01462	n/a	8/18/2021	0.011	No	14	0.00605	0.003313	7.143	None	No	0.0005852	Param Intra 1 of 2	
Zinc (mg/L)	GWC-4R	0.01	n/a	8/18/2021	0.01ND	No	19	n/a	n/a	63.16	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2	
Zinc (mg/L)	GWC-5R	0.01798	n/a	8/18/2021	0.026	Yes	15	0.00738	0.004189	0	None	No	0.0005852	Param Intra 1 of 2	
Zinc (mg/L)	GWC-6R	0.01	n/a	8/18/2021	0.01ND	No	21	n/a	n/a	33.33	n/a	n/a	0.003999	NP Intra (normality) 1 of 2	

Within Limit

Prediction Limit Intrawell Non-parametric

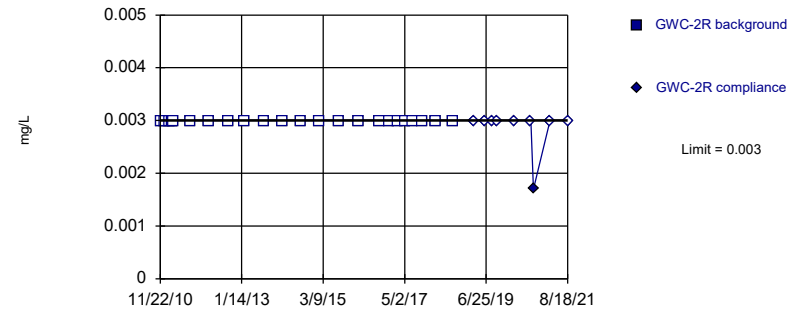


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Antimony Analysis Run 10/29/2021 7:58 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

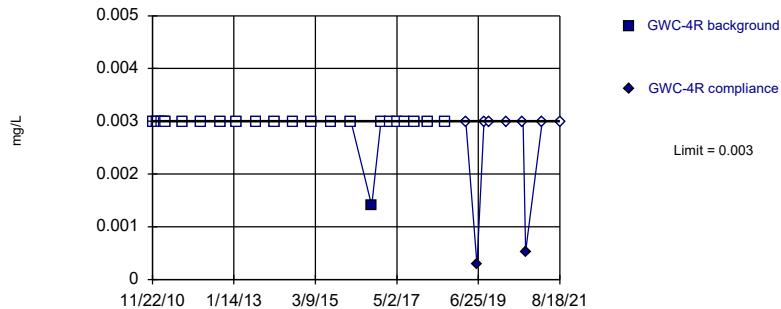


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Antimony Analysis Run 10/29/2021 7:58 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

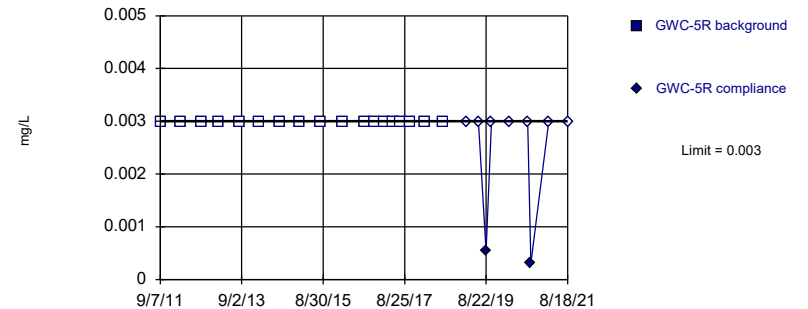


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Antimony Analysis Run 10/29/2021 7:58 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric



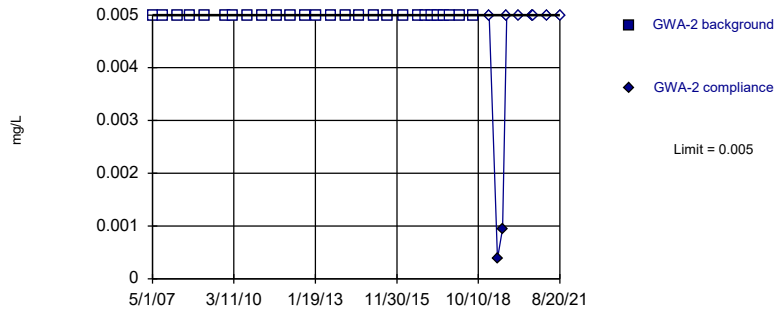
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Antimony Analysis Run 10/29/2021 7:58 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit Intrawell Non-parametric



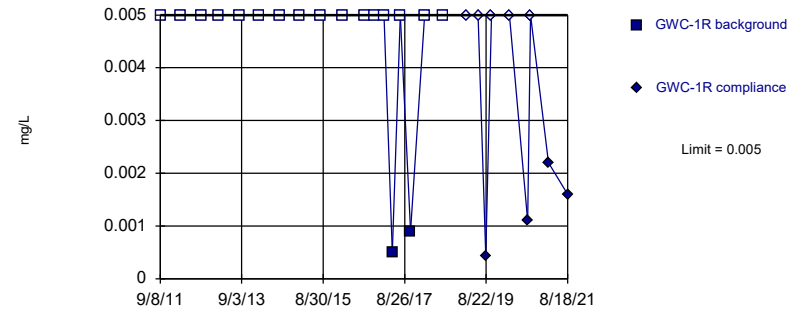
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 27) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Arsenic Analysis Run 10/29/2021 7:58 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit Intrawell Non-parametric



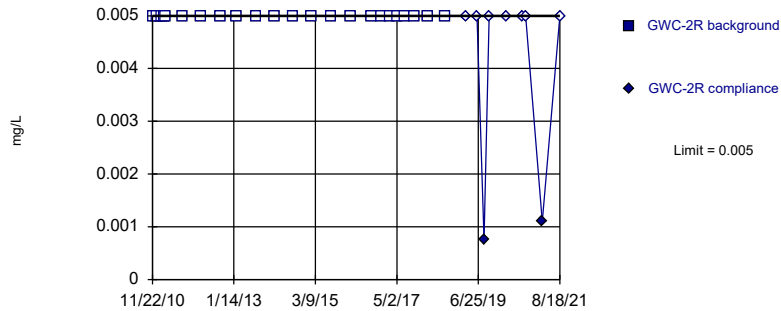
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Arsenic Analysis Run 10/29/2021 7:58 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit Intrawell Non-parametric



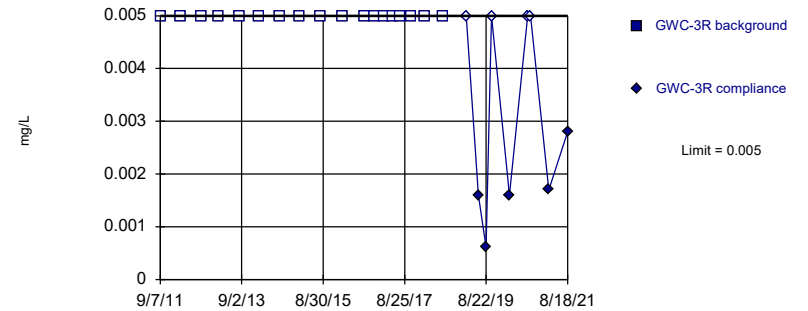
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Arsenic Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit Intrawell Non-parametric

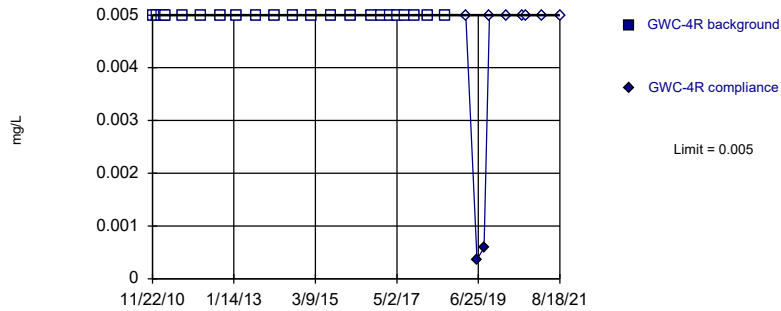


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Arsenic Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

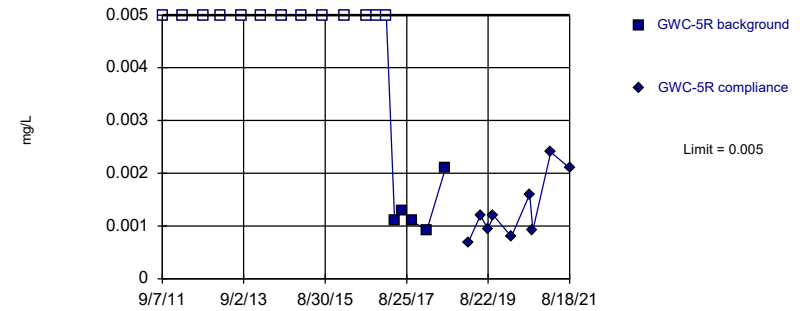


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Arsenic Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

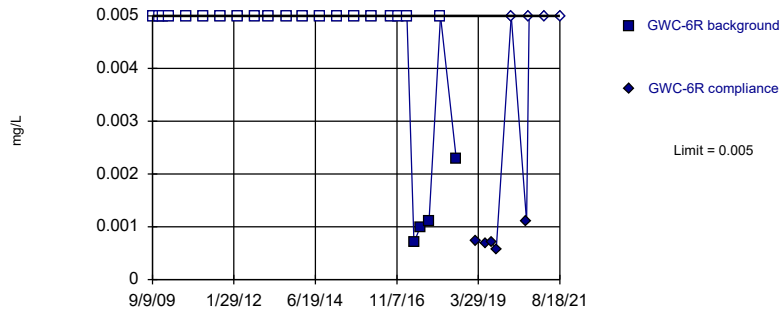


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 72.22% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Arsenic Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

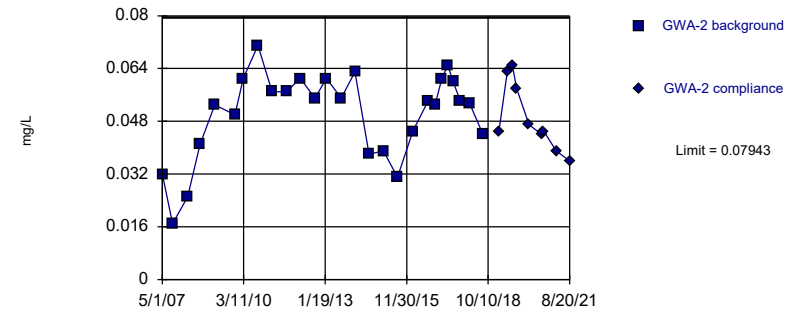


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Arsenic Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

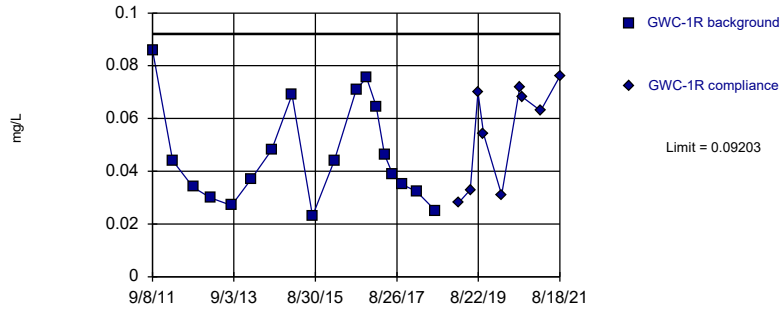
Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.05023, Std. Dev.=0.01305, n=27. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.924, critical = 0.894. Kappa = 2.237 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Barium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

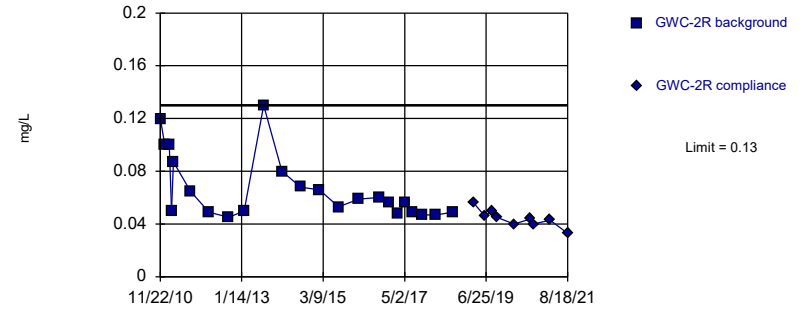
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.04614, Std. Dev.=0.01903, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9026, critical = 0.858. Kappa = 2.412 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Barium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

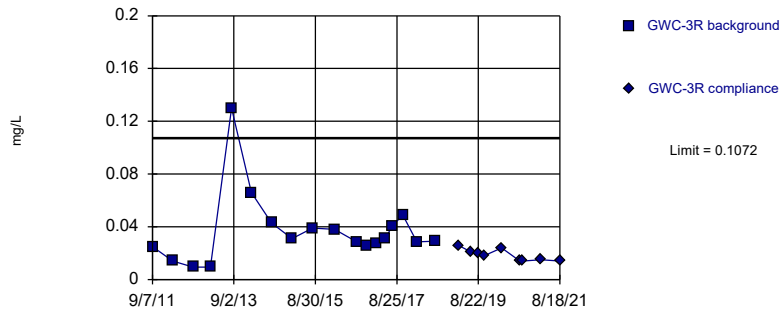
Within Limit Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Barium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

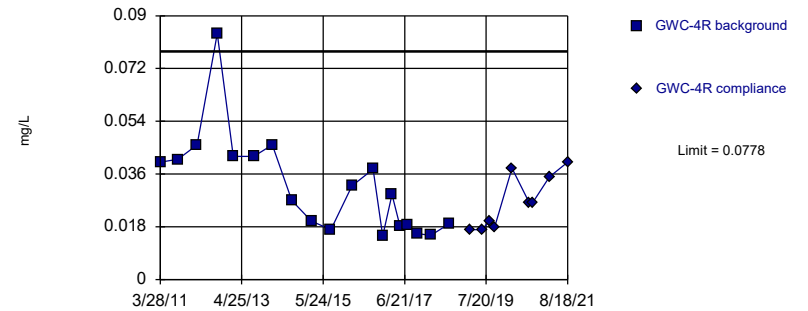
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=0.1832, Std. Dev.=0.05976, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8697, critical = 0.858. Kappa = 2.412 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Barium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit Prediction Limit
Intrawell Parametric

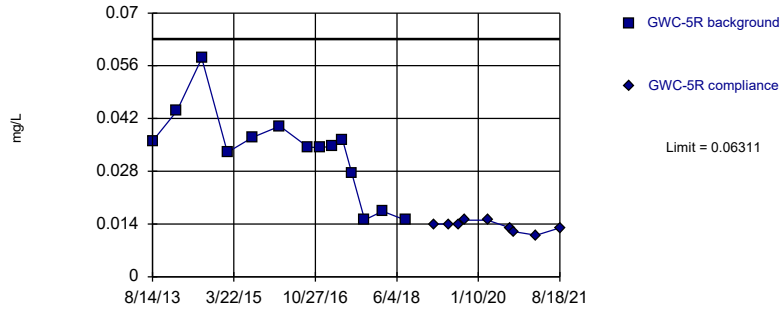


Background Data Summary (based on square root transformation): Mean=0.1732, Std. Dev.=0.04443, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8913, critical = 0.863. Kappa = 2.381 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Barium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Parametric

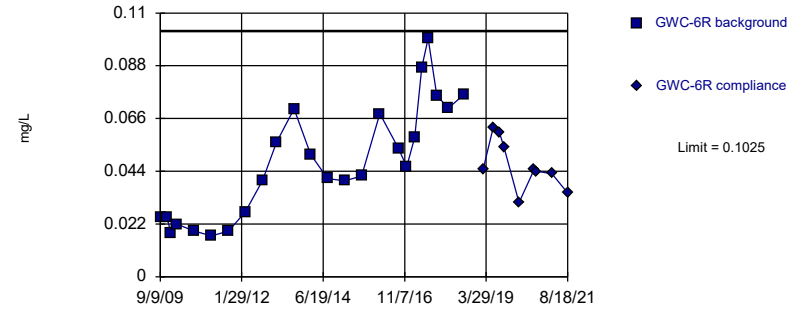


Background Data Summary: Mean=0.03304, Std. Dev.=0.01162, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.911, critical = 0.825. Kappa = 2.587 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Barium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Parametric

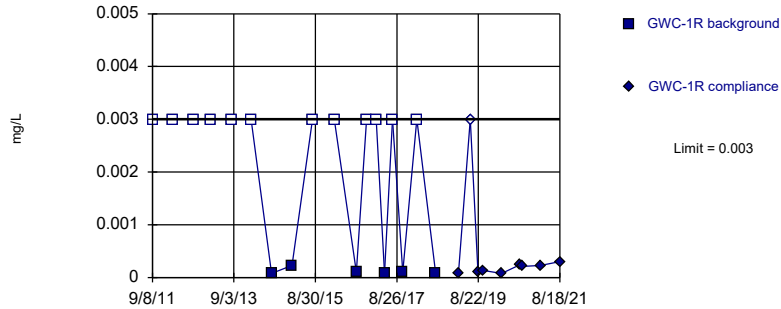


Background Data Summary: Mean=0.04776, Std. Dev.=0.02401, n=24. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9379, critical = 0.884. Kappa = 2.278 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Barium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

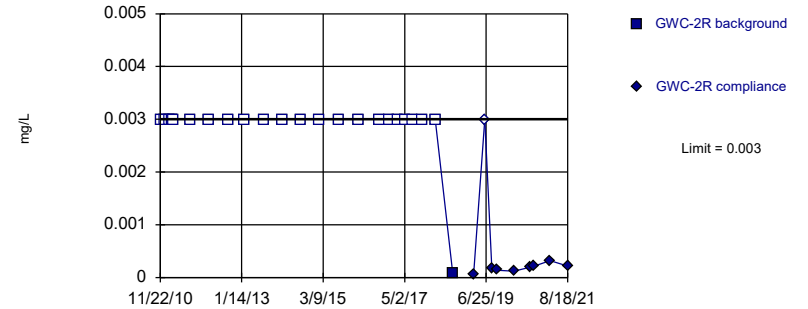


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Beryllium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

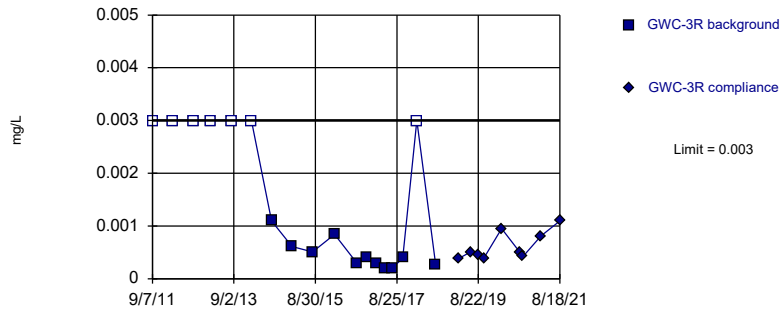


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Beryllium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
 Intrawell Non-parametric

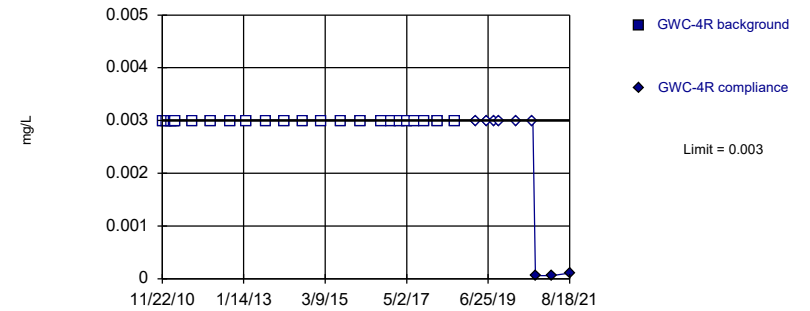


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 18 background values. 38.89% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Beryllium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
 Intrawell Non-parametric

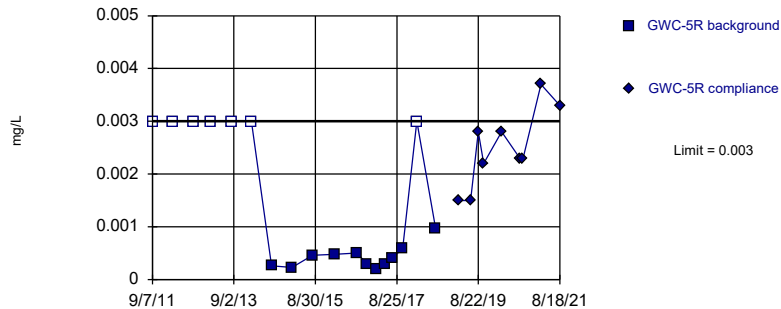


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Beryllium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Exceeds Limit

Prediction Limit
 Intrawell Non-parametric

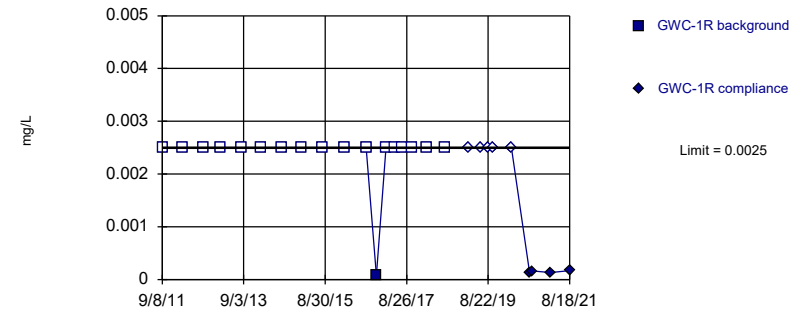


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 18 background values. 38.89% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Beryllium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
 Intrawell Non-parametric

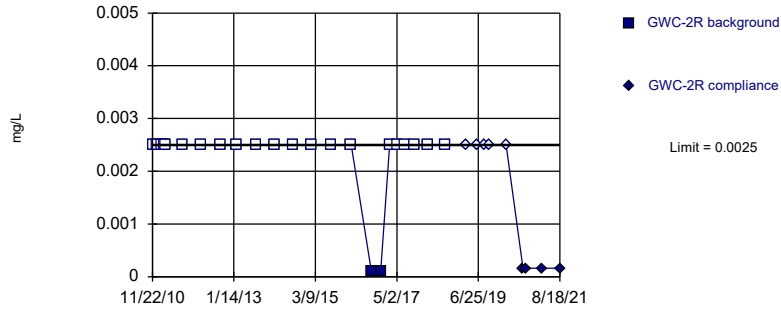


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 94.44% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Cadmium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

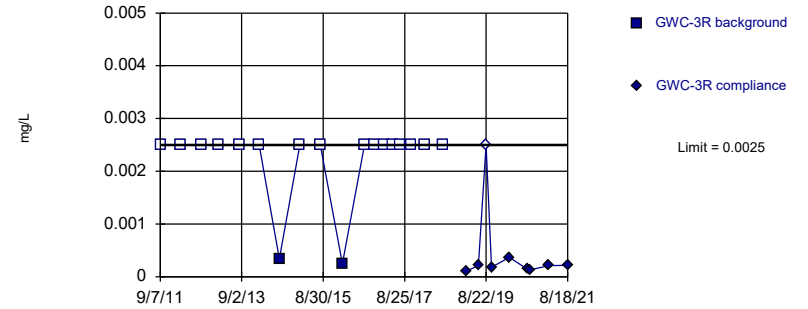


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Cadmium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

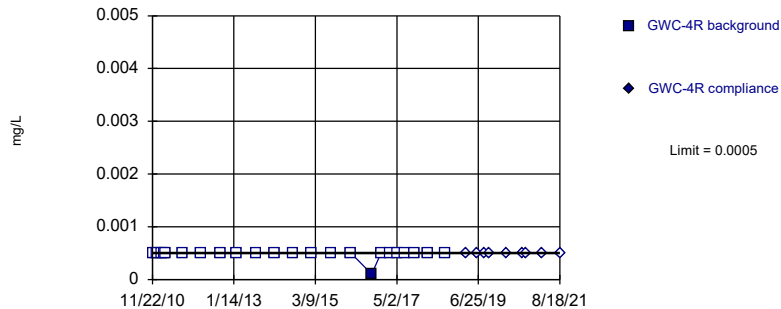


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Cadmium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

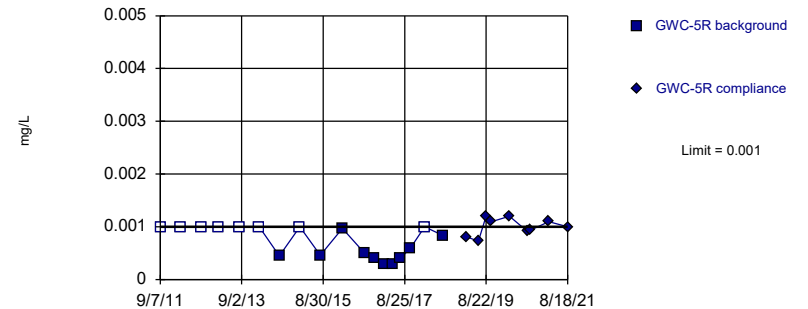


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Cadmium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

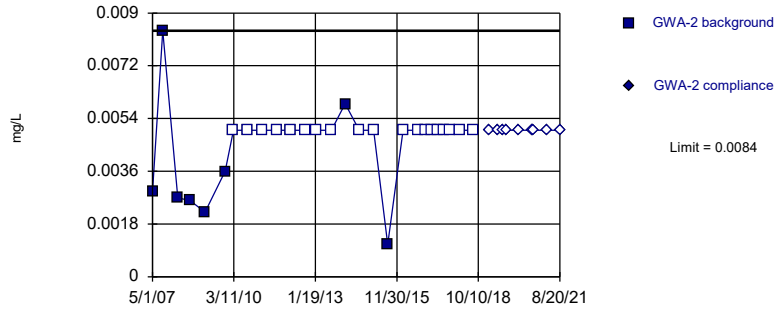


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 18 background values. 44.44% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Cadmium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

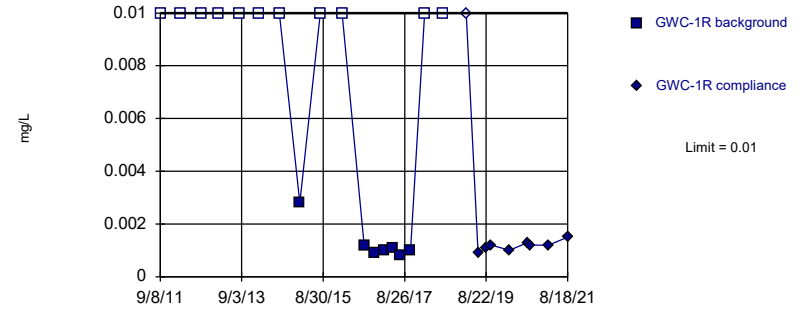


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 70.37% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Chromium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

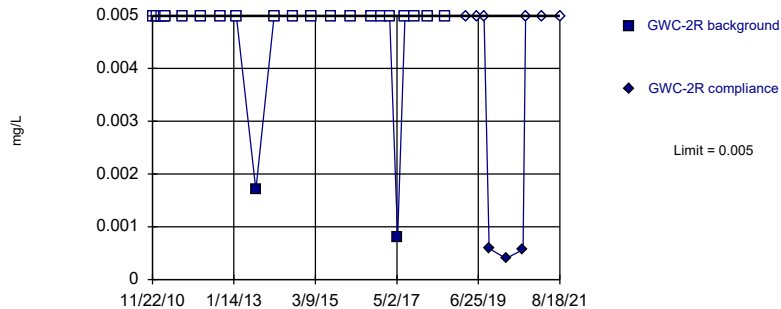


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 61.11% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Chromium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

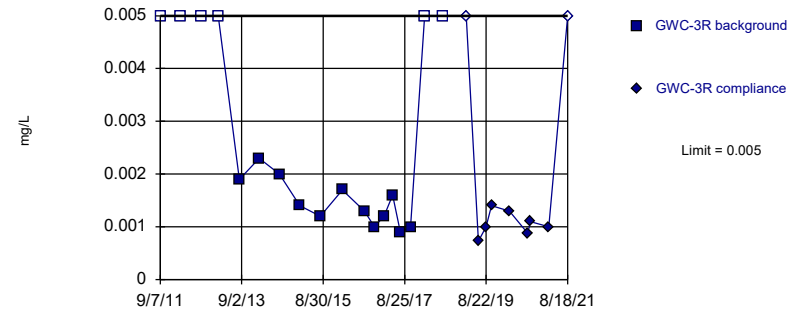


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Chromium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

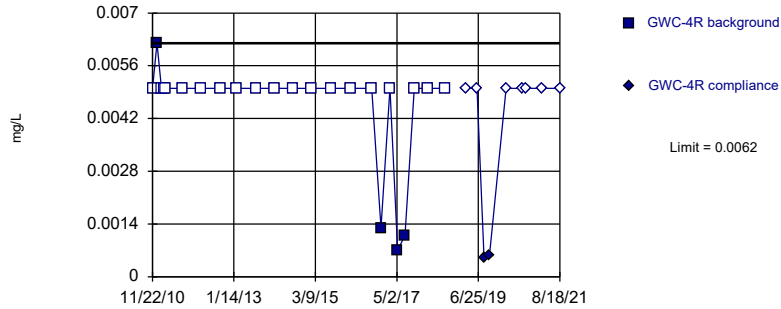


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 18 background values. 33.33% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Chromium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

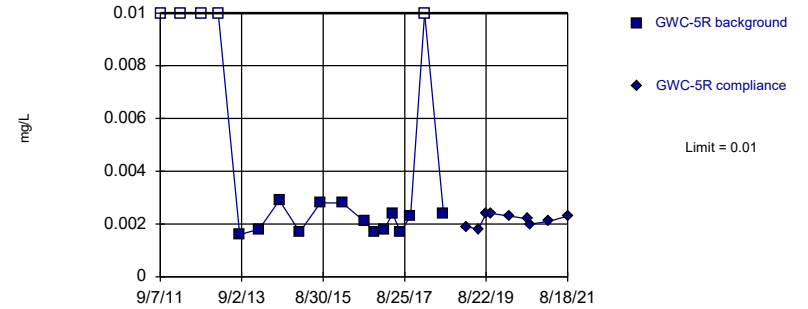


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 82.61% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Chromium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

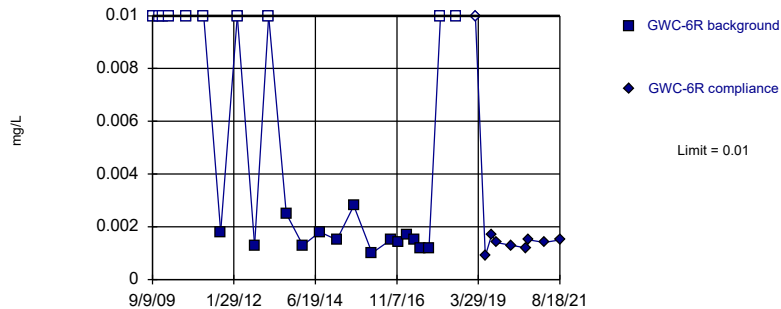


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 18 background values. 27.78% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Chromium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

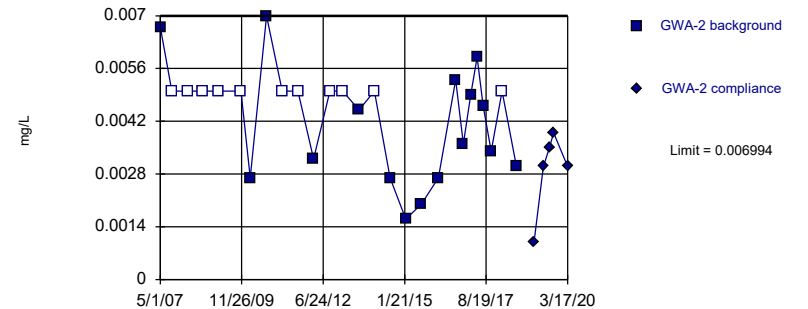


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 24 background values. 41.67% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Chromium Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

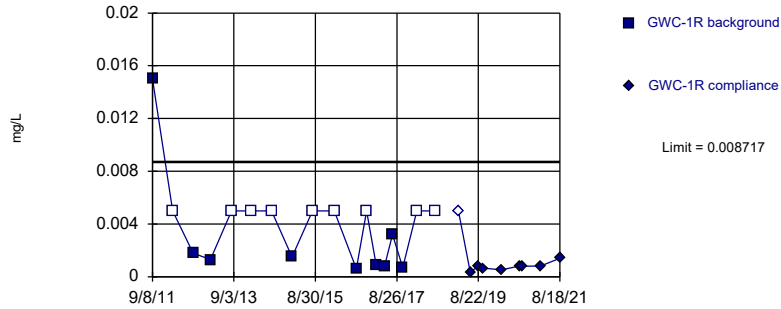


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.003556, Std. Dev.=0.001537, n=27, 40.74% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9046, critical = 0.894. Kappa = 2.237 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Cobalt Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

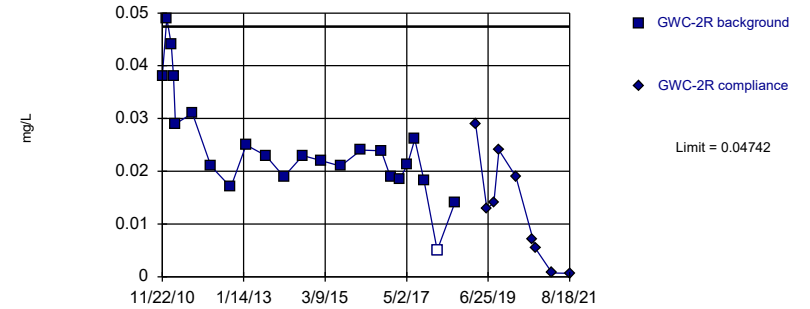


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-6.613, Std. Dev.=0.7756, n=18, 50% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8602, critical = 0.858. Kappa = 2.412 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Cobalt Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

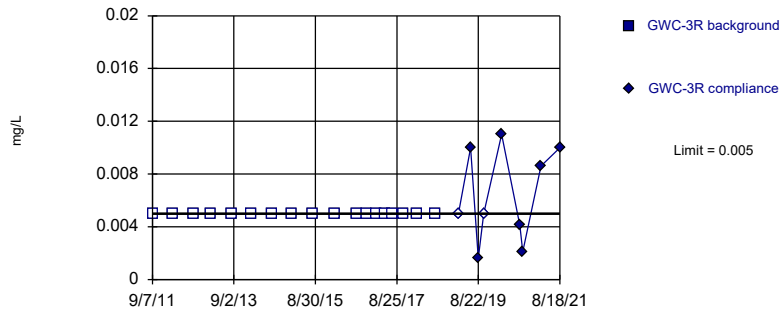


Background Data Summary: Mean=0.02477, Std. Dev.=0.009863, n=23, 4.348% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9174, critical = 0.881. Kappa = 2.296 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Cobalt Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

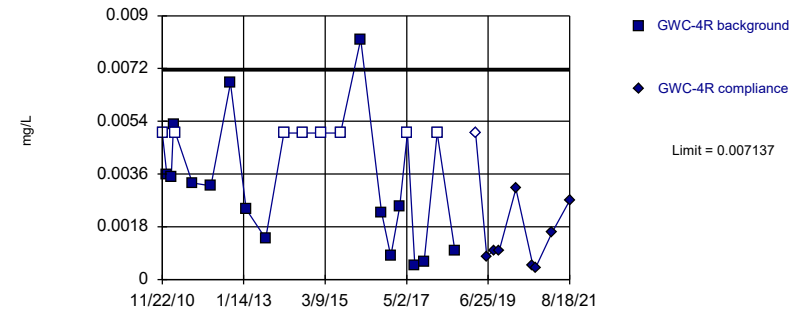


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Cobalt Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

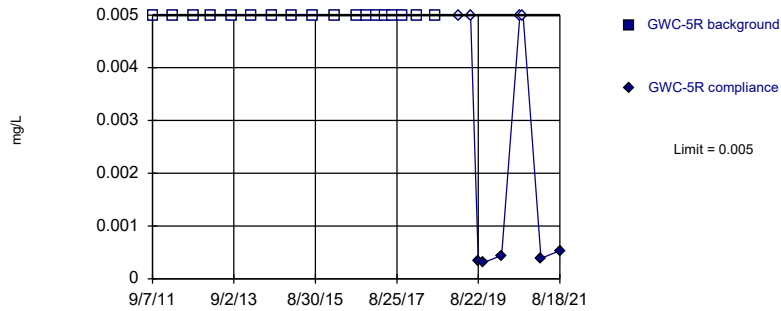


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002697, Std. Dev.=0.001934, n=23, 34.78% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9311, critical = 0.881. Kappa = 2.296 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Cobalt Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

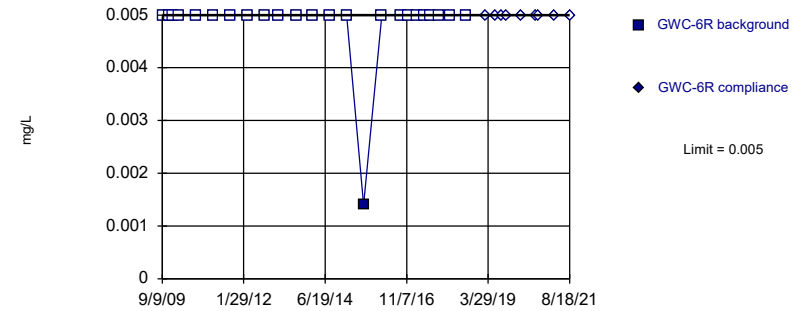


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Cobalt Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

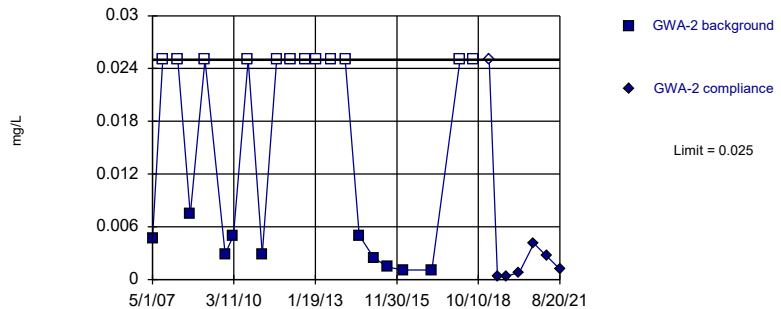


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cobalt Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

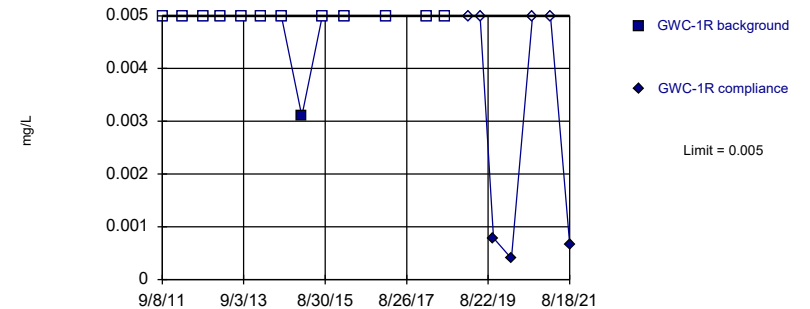


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 54.55% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Copper Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric



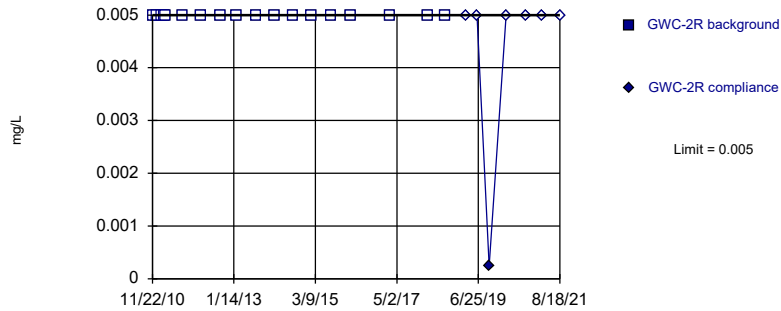
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 92.31% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Copper Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



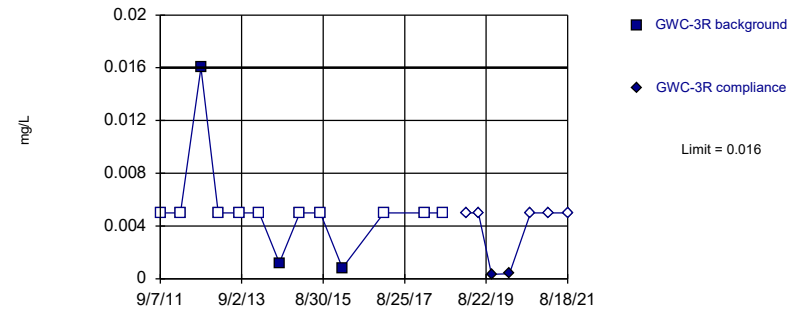
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Copper Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



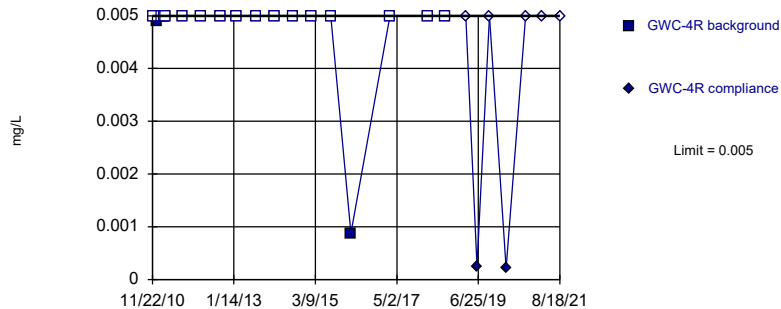
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 76.92% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Copper Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



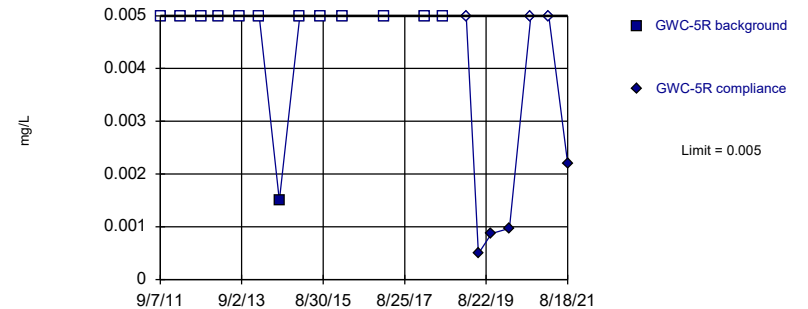
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Copper Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric

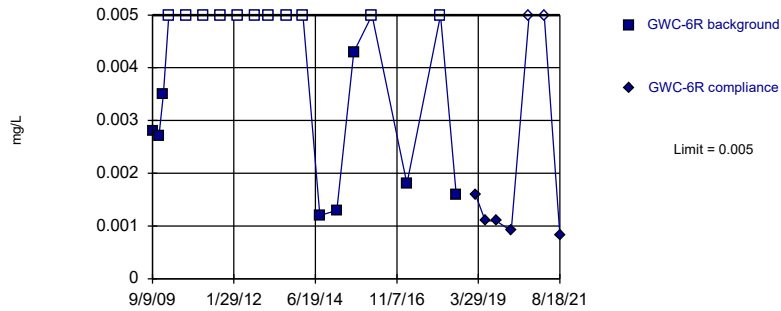


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 92.31% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Copper Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

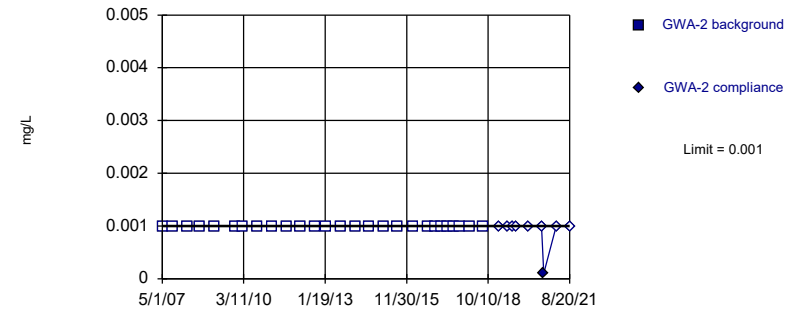


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 57.89% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Copper Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

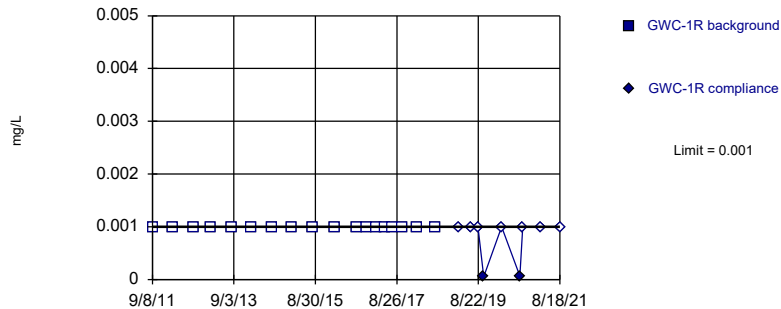


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 27) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Lead Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

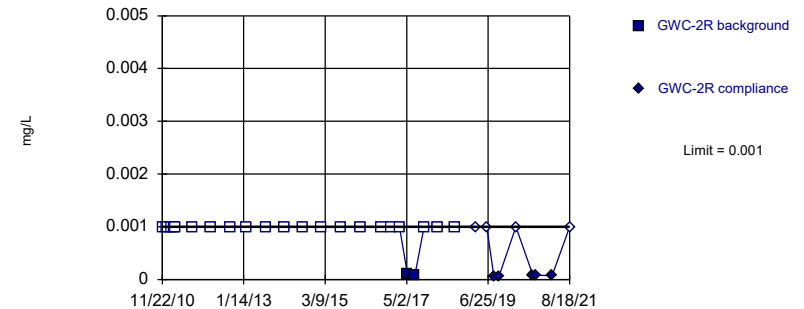


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Lead Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

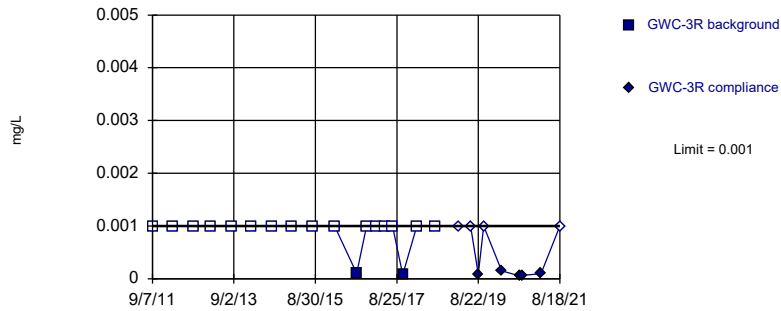


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Lead Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

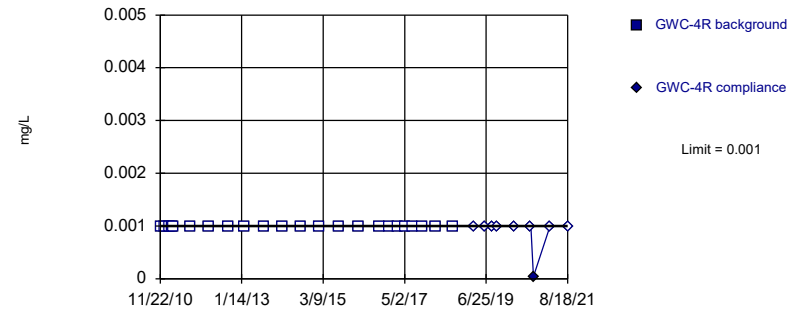


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Lead Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

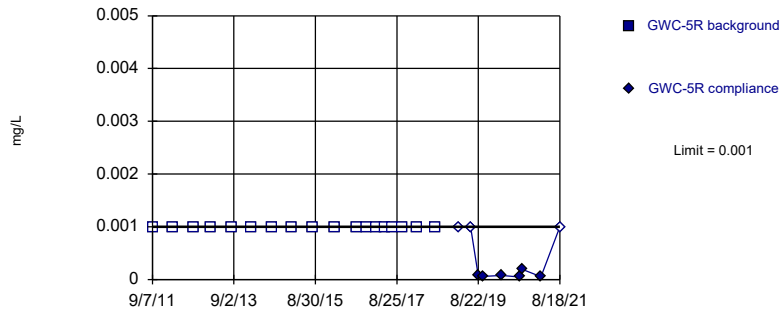


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Lead Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

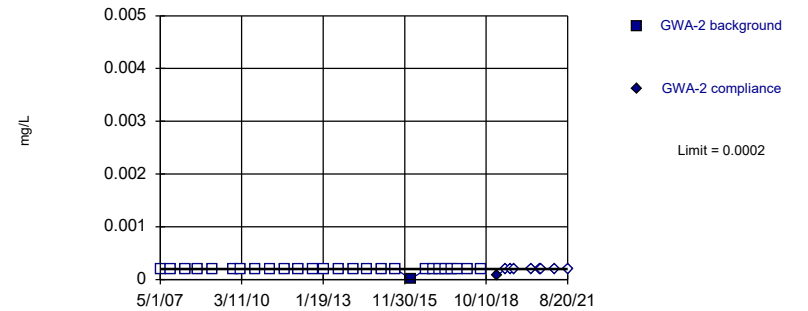


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Lead Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric



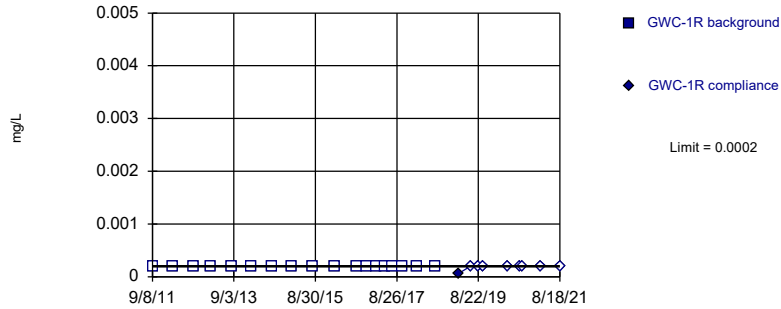
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Mercury Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit Intrawell Non-parametric



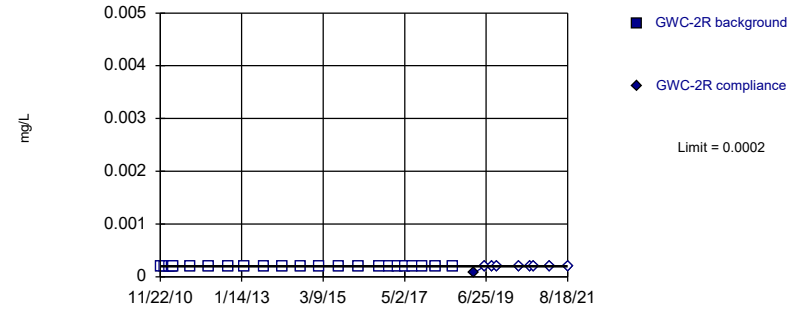
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Mercury Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit Intrawell Non-parametric



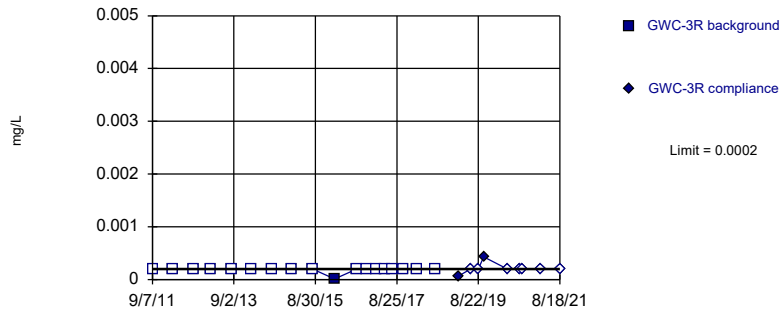
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Mercury Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit Intrawell Non-parametric



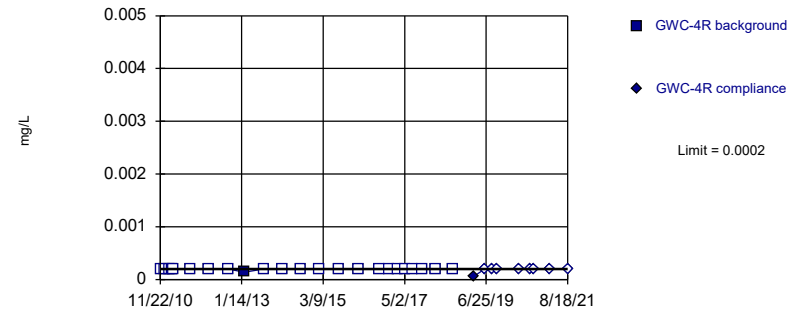
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 94.44% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Mercury Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit Intrawell Non-parametric

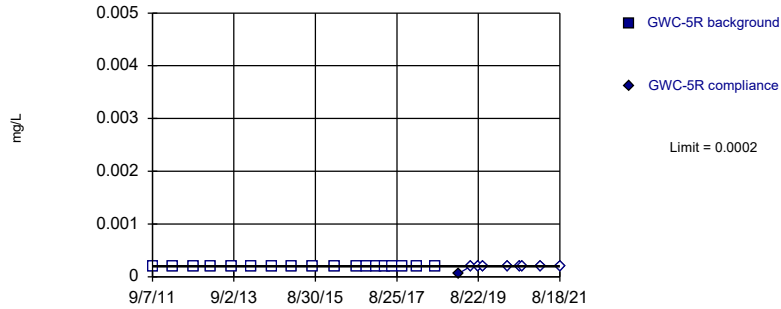


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Mercury Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

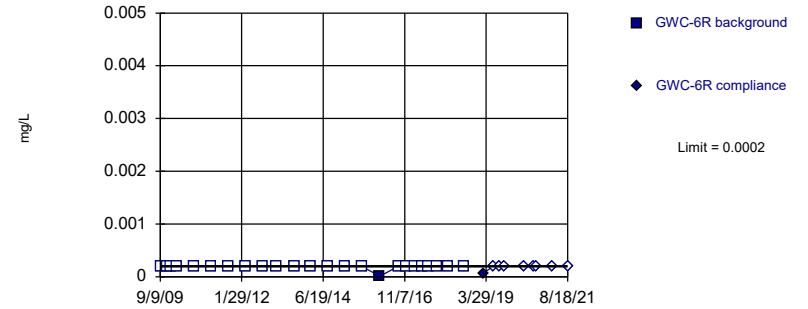


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Mercury Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

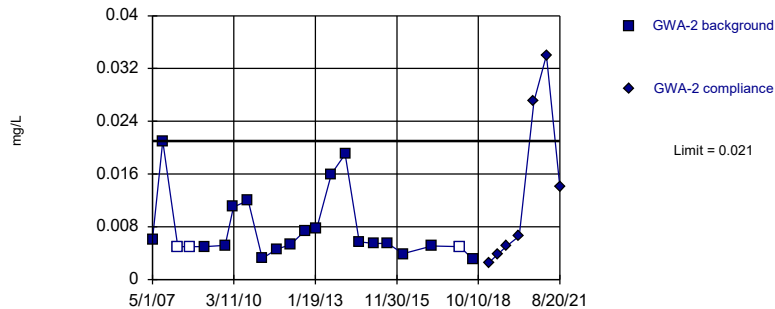


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

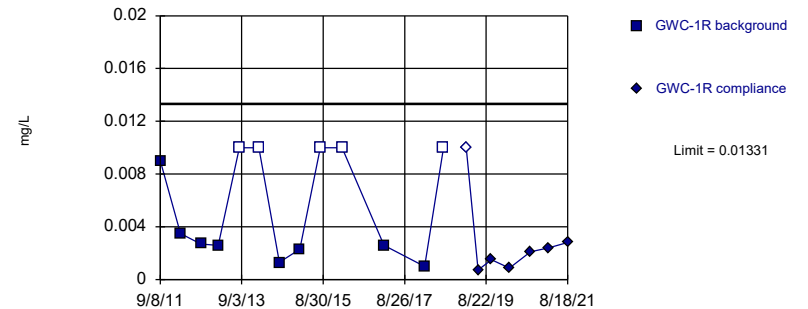


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 22 background values. 13.64% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Nickel Analysis Run 10/29/2021 7:59 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

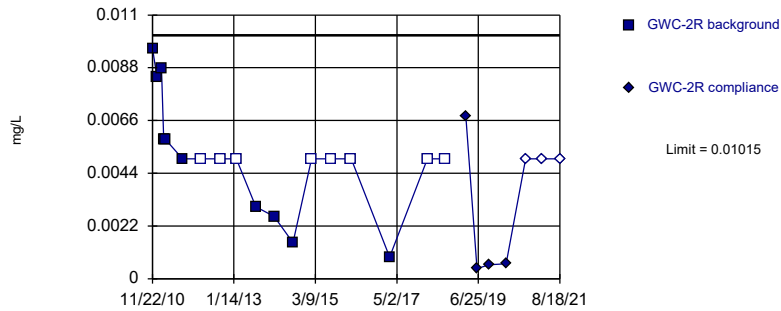


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-6.05, Std. Dev.=0.655, n=13, 38.46% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8323, critical = 0.814. Kappa = 2.643 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Nickel Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Parametric

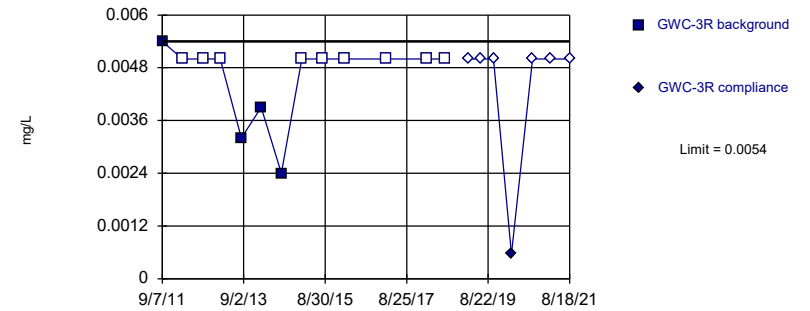


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.003546, Std. Dev.=0.00274, n=18, 44.44% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8887, critical = 0.858. Kappa = 2.412 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Nickel Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

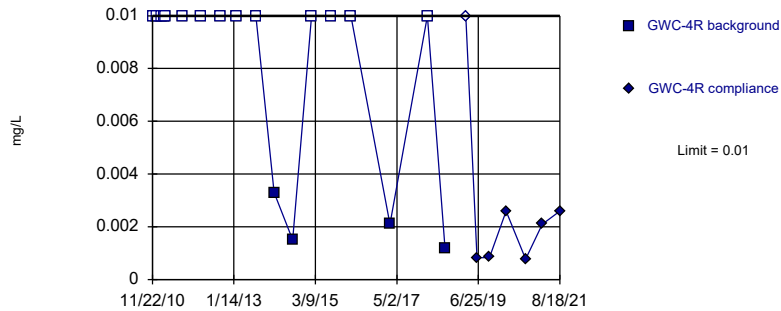


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Nickel Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

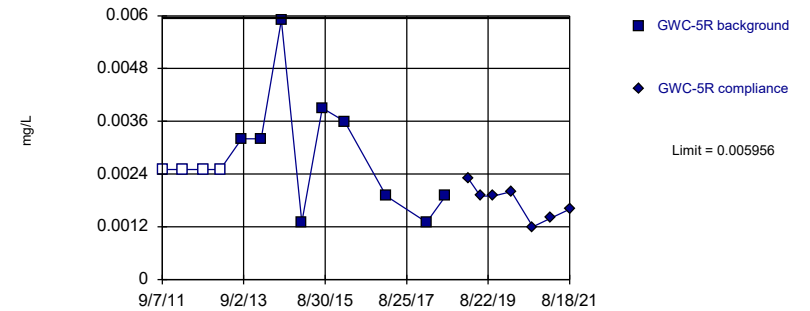


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Nickel Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Parametric

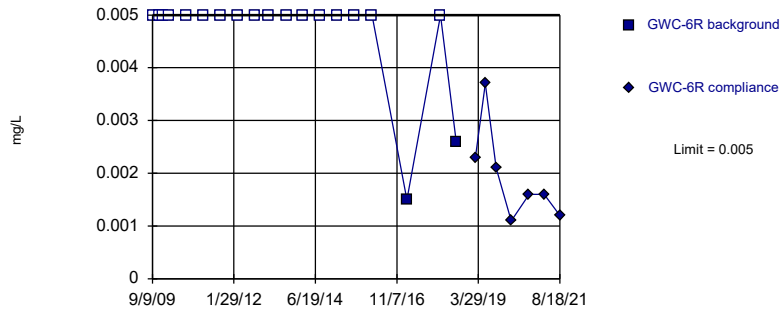


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002281, Std. Dev.=0.00139, n=13, 30.77% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8933, critical = 0.814. Kappa = 2.643 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Nickel Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

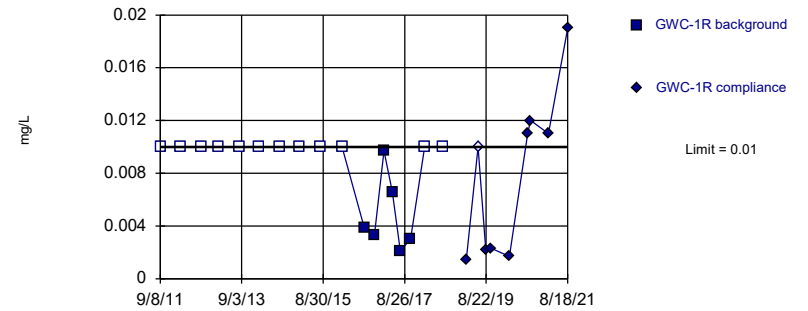


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 89.47% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

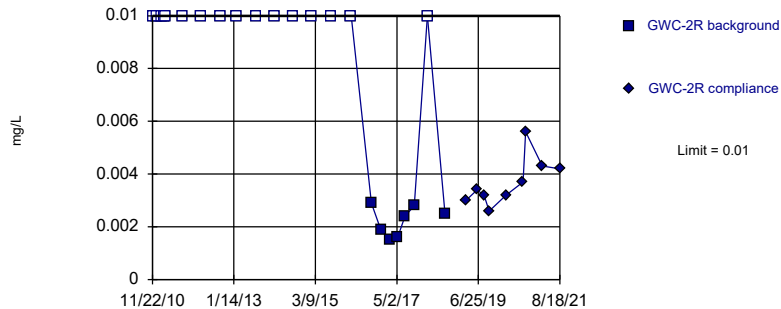


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Selenium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

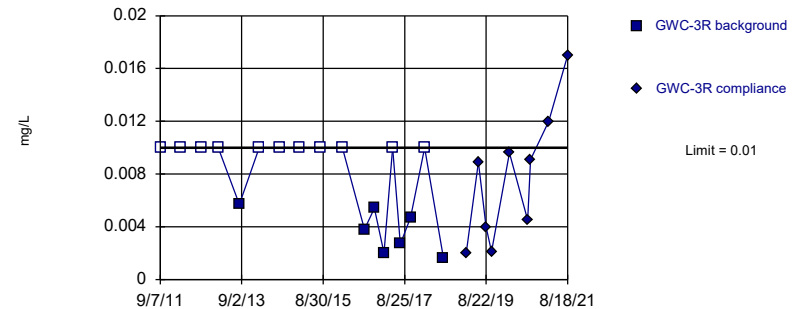


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 69.57% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Selenium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

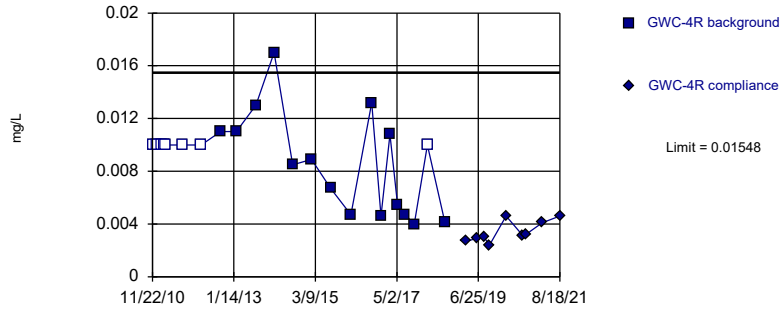


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 61.11% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Selenium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

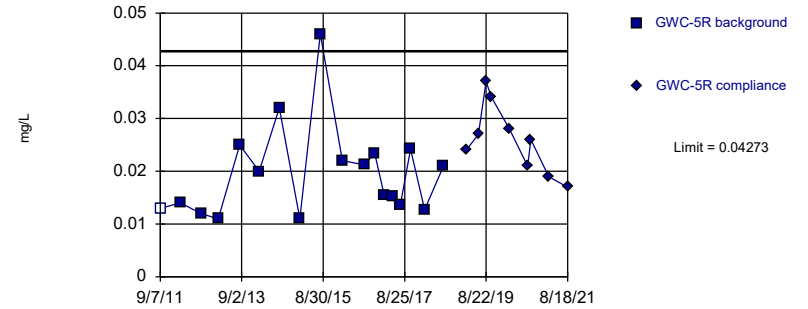


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.007285, Std. Dev.=0.003569, n=23, 34.78% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9085, critical = 0.881. Kappa = 2.296 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Selenium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

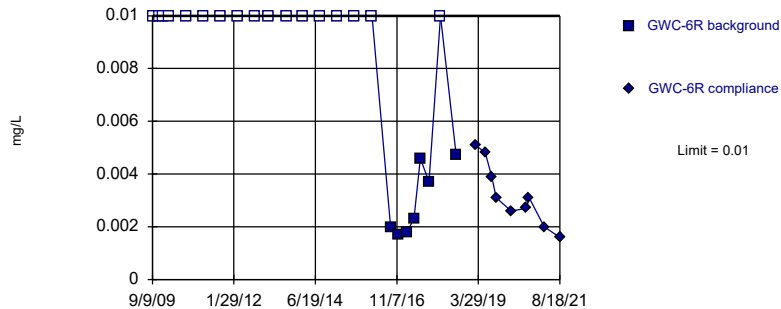


Background Data Summary (based on square root transformation): Mean=0.1371, Std. Dev.=0.02884, n=18, 5.566% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8922, critical = 0.858. Kappa = 2.412 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Selenium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

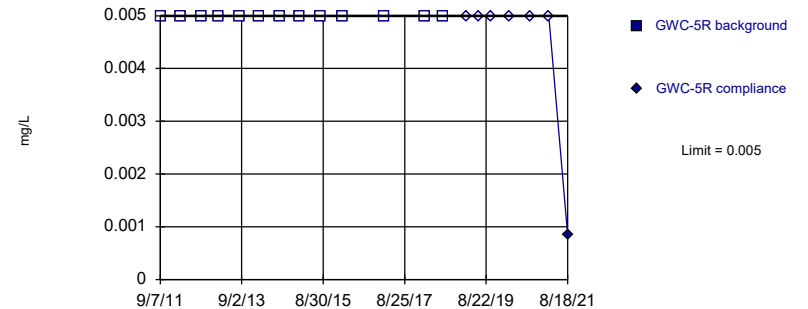


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 70.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Selenium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

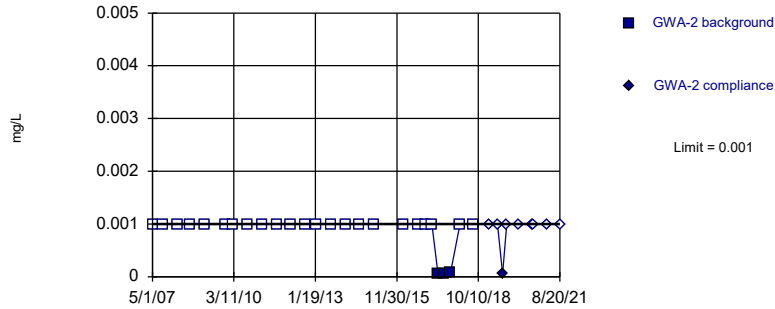


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 13) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Silver Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

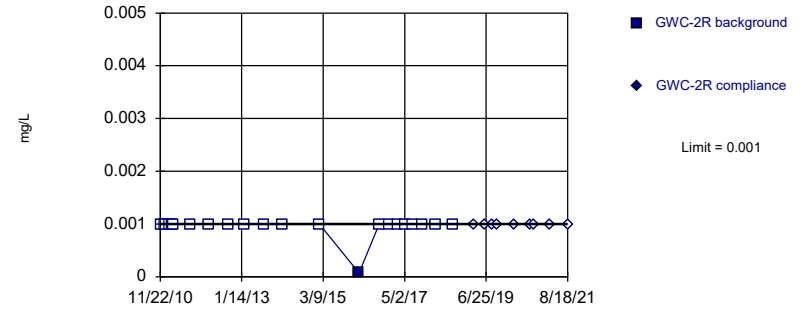


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 88.46% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Thallium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

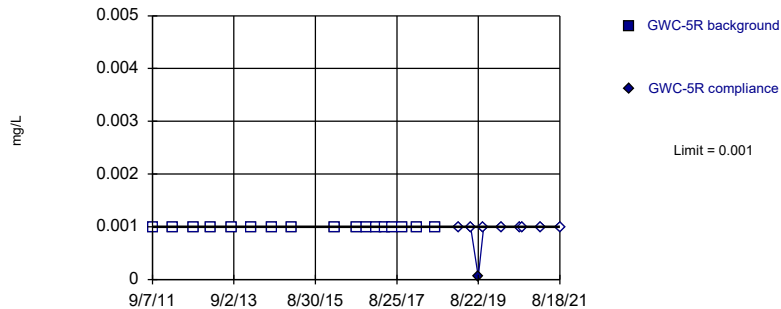


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 95.24% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Constituent: Thallium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

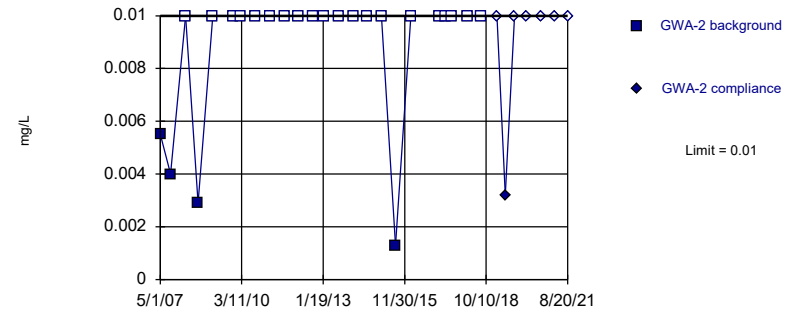


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 17) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Thallium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric



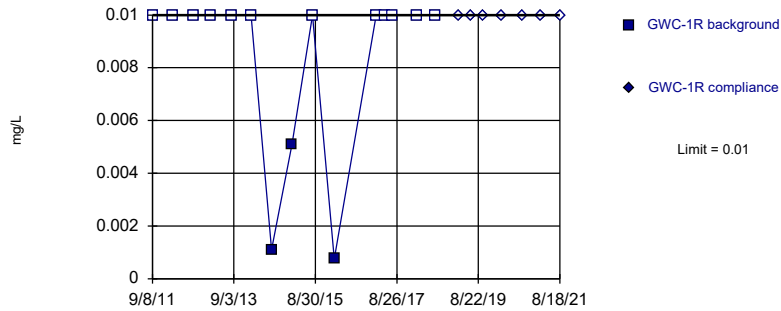
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Vanadium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit Intrawell Non-parametric



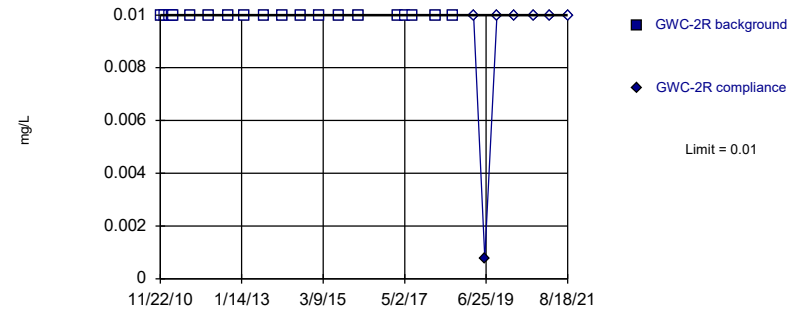
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 80% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit Intrawell Non-parametric



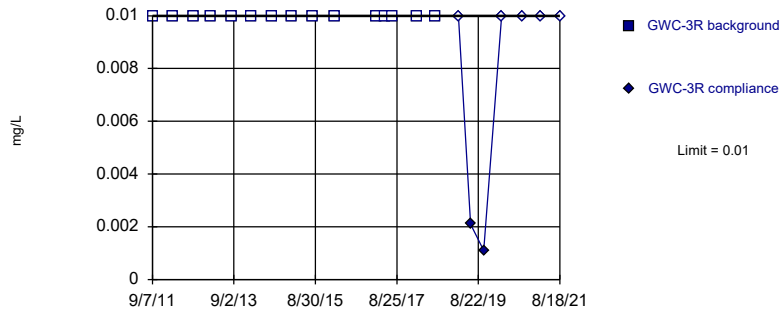
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Vanadium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit Intrawell Non-parametric



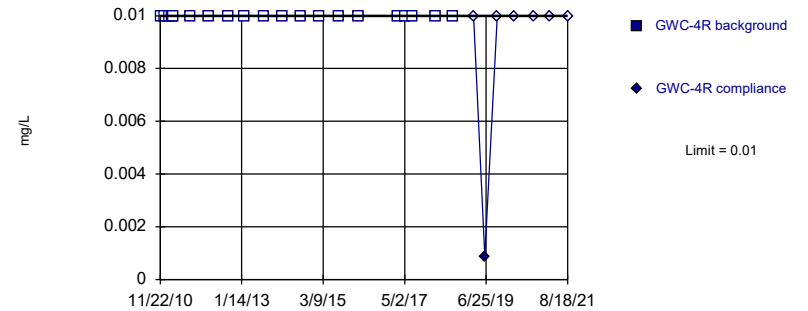
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 15) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.30f Sanitas software utilized by Groundwater Stats Consulting, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit Intrawell Non-parametric

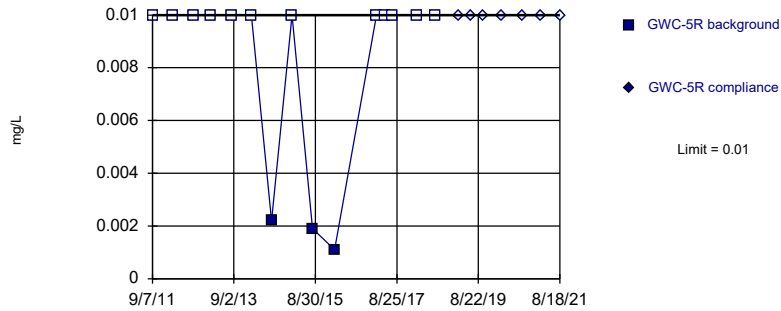


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 20) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Vanadium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

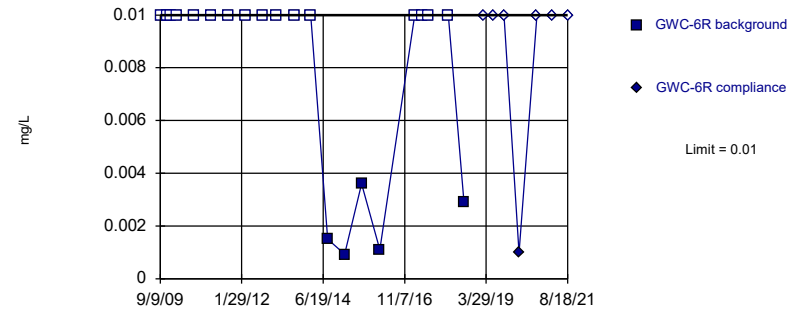


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 80% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

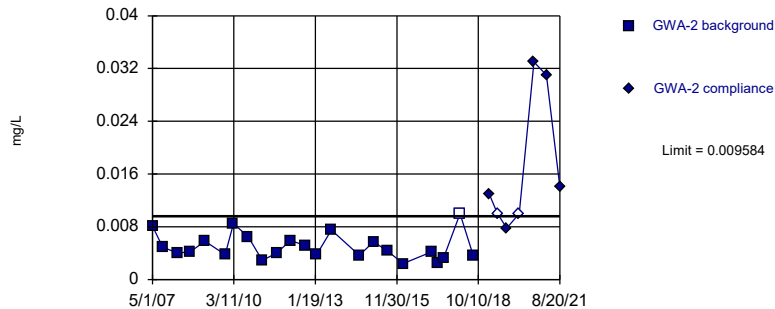


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 76.19% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Constituent: Vanadium Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Exceeds Limit

Prediction Limit
Intrawell Parametric

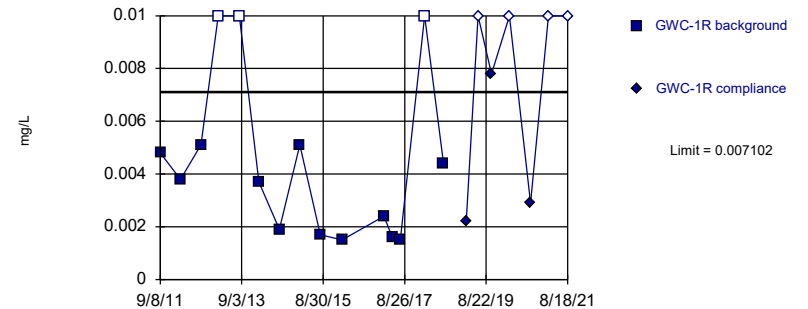


Background Data Summary: Mean=0.004991, Std. Dev.=0.002, n=23, 4.348% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9103, critical = 0.881. Kappa = 2.296 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Zinc Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

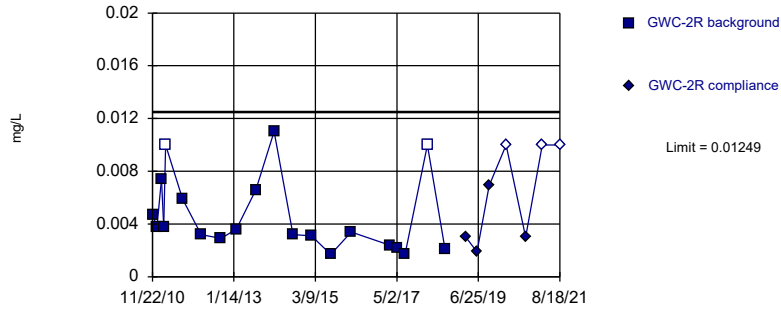


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.05264, Std. Dev.=0.0125, n=15, 20% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8675, critical = 0.835. Kappa = 2.53 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Zinc Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

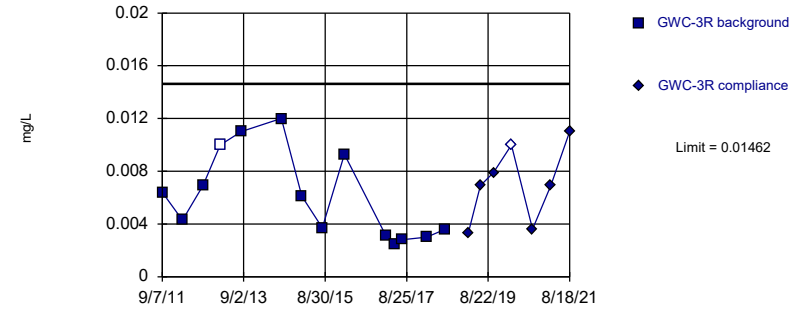


Background Data Summary (based on square root transformation): Mean=0.0653, Std. Dev.=0.01977, n=20, 10% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8938, critical = 0.868. Kappa = 2.35 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Zinc Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

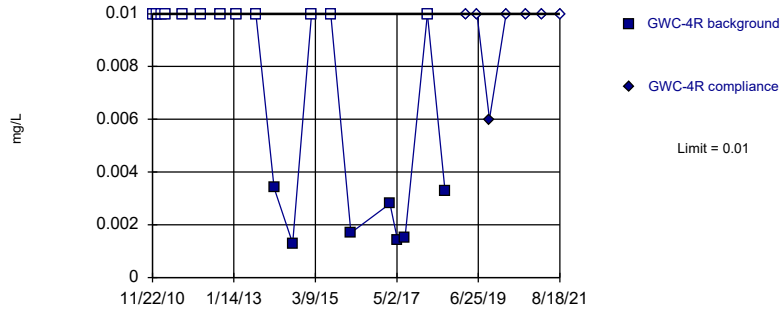


Background Data Summary: Mean=0.00605, Std. Dev.=0.003313, n=14, 7.143% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8788, critical = 0.825. Kappa = 2.587 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Zinc Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

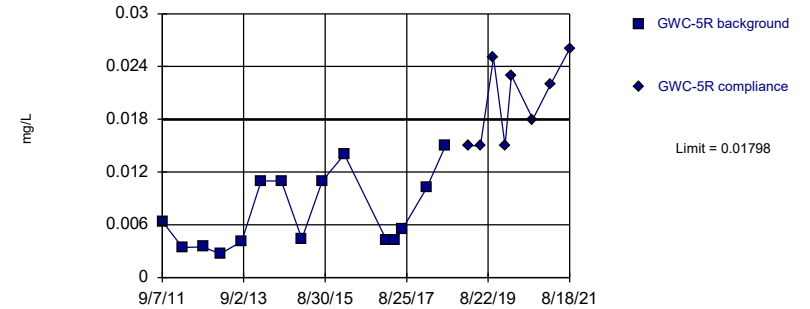


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 63.16% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Exceeds Limit

Prediction Limit
Intrawell Parametric

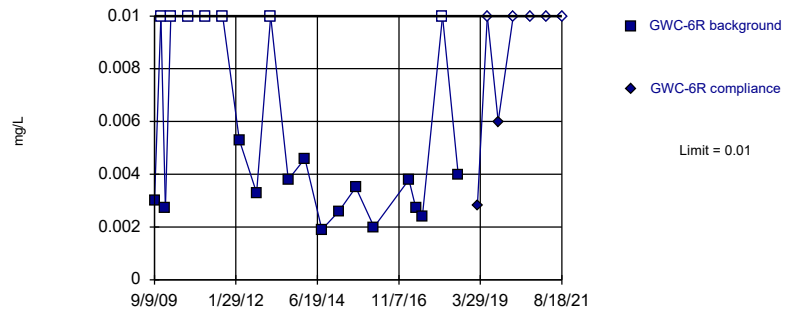


Background Data Summary: Mean=0.00738, Std. Dev.=0.004189, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8595, critical = 0.835. Kappa = 2.53 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Zinc Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 21 background values. 33.33% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Constituent: Zinc Analysis Run 10/29/2021 8:00 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
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	
8/31/2016	<0.003	
11/28/2016	0.0014 (J)	
2/22/2017	<0.003	
5/8/2017	<0.003	
7/17/2017	<0.003	
10/16/2017	<0.003	
2/19/2018	<0.003	
8/6/2018	<0.003	
2/25/2019		<0.003
6/12/2019		<0.003
8/19/2019		<0.003
10/8/2019		<0.003
3/17/2020		<0.003
8/26/2020		0.00042 (J)
9/22/2020		0.00044 (J)
3/2/2021		<0.003
8/20/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.003	
1/4/2011	<0.003	
2/17/2011	<0.003	
3/11/2011	<0.003	
3/28/2011	<0.003	
9/7/2011	<0.003	
3/6/2012	<0.003	
9/11/2012	<0.003	
2/6/2013	<0.003	
8/13/2013	<0.003	
2/4/2014	<0.003	
8/5/2014	<0.003	
2/2/2015	<0.003	
8/4/2015	<0.003	
2/17/2016	<0.003	
8/31/2016	<0.003	
11/28/2016	<0.003	
2/22/2017	<0.003	
5/10/2017	<0.003	
7/18/2017	<0.003	
10/17/2017	<0.003	
2/20/2018	<0.003	
8/8/2018	<0.003	
2/26/2019		<0.003
6/12/2019		<0.003
8/20/2019		<0.003
10/9/2019		<0.003
3/18/2020		<0.003
8/28/2020		<0.003
9/22/2020		0.0017 (J)
3/1/2021		<0.003
8/18/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.003	
1/4/2011	<0.003	
2/17/2011	<0.003	
3/11/2011	<0.003	
3/28/2011	<0.003	
9/7/2011	<0.003	
3/4/2012	<0.003	
9/10/2012	<0.003	
2/6/2013	<0.003	
8/14/2013	<0.003	
2/4/2014	<0.003	
8/4/2014	<0.003	
2/2/2015	<0.003	
8/3/2015	<0.003 (D)	
2/16/2016	<0.003	
9/1/2016	0.0014 (J)	
11/30/2016	<0.003	
2/24/2017	<0.003	
5/10/2017	<0.003	
7/18/2017	<0.003	
10/17/2017	<0.003	
2/20/2018	<0.003	
8/8/2018	<0.003	
2/26/2019		<0.003
6/12/2019		0.00028 (J)
8/19/2019		<0.003
10/10/2019		<0.003
3/18/2020		<0.003
8/28/2020		<0.003
9/22/2020		0.00053 (J)
3/1/2021		<0.003
8/18/2021		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.003	
3/5/2012	<0.003	
9/5/2012	<0.003	
2/5/2013	<0.003	
8/14/2013	<0.003	
2/5/2014	<0.003	
8/4/2014	<0.003	
2/3/2015	<0.003	
8/3/2015	<0.003 (D)	
2/16/2016	<0.003	
9/1/2016	<0.003	
12/1/2016	<0.003	
2/24/2017	<0.003	
5/10/2017	<0.003	
7/17/2017	<0.003	
10/16/2017	<0.003	
2/21/2018	<0.003	
8/7/2018	<0.003	
2/26/2019		<0.003
6/13/2019		<0.003
8/21/2019		0.00054 (J)
10/9/2019		<0.003
3/18/2020		<0.003
8/27/2020		<0.003
9/23/2020		0.00031 (J)
3/2/2021		<0.003
8/18/2021		<0.003

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
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	
8/31/2016	<0.005	
11/28/2016	<0.005	
2/22/2017	<0.005	
5/8/2017	<0.005	
7/17/2017	<0.005	
10/16/2017	<0.005	
2/19/2018	<0.005	
8/6/2018	<0.005	
2/25/2019		<0.005
6/12/2019		0.00038 (J)
8/19/2019		0.00095 (J)
10/8/2019		<0.005
3/17/2020		<0.005
8/26/2020		<0.005
9/22/2020		<0.005
3/2/2021		<0.005
8/20/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/2/2015	<0.005	
8/4/2015	<0.005 (D)	
2/16/2016	<0.005	
8/31/2016	<0.005	
11/29/2016	<0.005	
2/23/2017	<0.005	
5/9/2017	0.0005 (J)	
7/18/2017	<0.005	
10/17/2017	0.0009 (J)	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019		<0.005
6/13/2019		<0.005
8/20/2019		0.00044 (J)
10/9/2019		<0.005
3/17/2020		<0.005
8/27/2020		0.0011 (J)
9/22/2020		<0.005
3/1/2021		0.0022 (J)
8/18/2021		0.0016 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.005	
1/4/2011	<0.005	
2/17/2011	<0.005	
3/11/2011	<0.005	
3/28/2011	<0.005	
9/7/2011	<0.005	
3/6/2012	<0.005	
9/11/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/2/2015	<0.005	
8/4/2015	<0.005	
2/17/2016	<0.005	
8/31/2016	<0.005	
11/28/2016	<0.005	
2/22/2017	<0.005	
5/10/2017	<0.005	
7/18/2017	<0.005	
10/17/2017	<0.005	
2/20/2018	<0.005	
8/8/2018	<0.005	
2/26/2019		<0.005
6/12/2019		<0.005
8/20/2019		0.00075 (J)
10/9/2019		<0.005
3/18/2020		<0.005
8/28/2020		<0.005
9/22/2020		<0.005
3/1/2021		0.0011 (J)
8/18/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	<0.005	
2/5/2014	<0.005	
8/4/2014	<0.005	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
8/31/2016	<0.005	
11/30/2016	<0.005	
2/23/2017	<0.005	
5/9/2017	<0.005	
7/18/2017	<0.005	
10/18/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019		<0.005
6/13/2019		0.0016 (J)
8/21/2019		0.00061 (J)
10/10/2019		<0.005
3/17/2020		0.0016 (J)
8/28/2020		<0.005
9/22/2020		<0.005
3/2/2021		0.0017 (J)
8/18/2021		0.0028 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.005	
1/4/2011	<0.005	
2/17/2011	<0.005	
3/11/2011	<0.005	
3/28/2011	<0.005	
9/7/2011	<0.005	
3/4/2012	<0.005	
9/10/2012	<0.005	
2/6/2013	<0.005	
8/14/2013	<0.005	
2/4/2014	<0.005	
8/4/2014	<0.005	
2/2/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
9/1/2016	<0.005	
11/30/2016	<0.005	
2/24/2017	<0.005	
5/10/2017	<0.005	
7/18/2017	<0.005	
10/17/2017	<0.005	
2/20/2018	<0.005	
8/8/2018	<0.005	
2/26/2019		<0.005
6/12/2019		0.00037 (J)
8/19/2019		0.00059 (J)
10/10/2019		<0.005
3/18/2020		<0.005
8/28/2020		<0.005
9/22/2020		<0.005
3/1/2021		<0.005
8/18/2021		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/14/2013	<0.005	
2/5/2014	<0.005	
8/4/2014	<0.005	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
9/1/2016	<0.005	
12/1/2016	<0.005	
2/24/2017	<0.005	
5/10/2017	0.0011 (J)	
7/17/2017	0.0013 (J)	
10/16/2017	0.0011 (J)	
2/21/2018	0.00091 (J)	
8/7/2018	0.0021 (J)	
2/26/2019		0.00069 (J)
6/13/2019		0.0012 (J)
8/21/2019		0.00094 (J)
10/9/2019		0.0012 (J)
3/18/2020		0.0008 (J)
8/27/2020		0.0016 (J)
9/23/2020		0.00092 (J)
3/2/2021		0.0024 (J)
8/18/2021		0.0021 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	<0.005	
11/18/2009	<0.005	
1/5/2010	<0.005	
3/3/2010	<0.005	
9/7/2010	<0.005	
3/10/2011	<0.005	
9/8/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/3/2015	<0.005	
8/4/2015	<0.005	
2/16/2016	<0.005	
9/1/2016	<0.005	
11/29/2016	<0.005	
2/23/2017	<0.005	
5/10/2017	0.0007 (J)	
7/18/2017	0.001 (J)	
10/18/2017	0.0011 (J)	
2/19/2018	<0.005	
8/6/2018	0.0023 (J)	
2/25/2019		0.00073 (J)
6/13/2019		0.00068 (J)
8/20/2019		0.00072 (J)
10/8/2019		0.00056 (J)
3/17/2020		<0.005
8/27/2020		0.0011 (J)
9/23/2020		<0.005
3/3/2021		<0.005
8/18/2021		<0.005

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
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	
8/31/2016	0.0542	
11/28/2016	0.0529	
2/22/2017	0.0607	
5/8/2017	0.065	
7/17/2017	0.06	
10/16/2017	0.0542	
2/19/2018	0.0533	
8/6/2018	0.044	
2/25/2019		0.045
6/12/2019		0.063
8/19/2019		0.065
10/8/2019		0.058
3/17/2020		0.047
8/26/2020		0.044
9/22/2020		0.045
3/2/2021		0.039
8/20/2021		0.036

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	0.086	
3/5/2012	0.044	
9/5/2012	0.034	
2/5/2013	0.03	
8/13/2013	0.027	
2/4/2014	0.037	
8/5/2014	0.048	
2/2/2015	0.069	
8/4/2015	0.023 (D)	
2/16/2016	0.044	
8/31/2016	0.0711	
11/29/2016	0.0754	
2/23/2017	0.0646	
5/9/2017	0.0463	
7/18/2017	0.039	
10/17/2017	0.0349	
2/21/2018	0.0322	
8/7/2018	0.025	
2/26/2019		0.028
6/13/2019		0.033
8/20/2019		0.07
10/9/2019		0.054
3/17/2020		0.031
8/27/2020		0.072
9/22/2020		0.068
3/1/2021		0.063
8/18/2021		0.076

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	0.12	
1/4/2011	0.1	
2/17/2011	0.1	
3/11/2011	0.05	
3/28/2011	0.087	
9/7/2011	0.065	
3/6/2012	0.049	
9/11/2012	0.045	
2/6/2013	0.05	
8/13/2013	0.13	
2/4/2014	0.08	
8/5/2014	0.068	
2/2/2015	0.066	
8/4/2015	0.053	
2/17/2016	0.059	
8/31/2016	0.0601	
11/28/2016	0.0562	
2/22/2017	0.0481	
5/10/2017	0.0563	
7/18/2017	0.049	
10/17/2017	0.047	
2/20/2018	0.0467	
8/8/2018	0.049	
2/26/2019		0.056
6/12/2019		0.046
8/20/2019		0.05
10/9/2019		0.045
3/18/2020		0.04
8/28/2020		0.044
9/22/2020		0.04
3/1/2021		0.043
8/18/2021		0.033

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	0.025	
3/5/2012	0.014	
9/5/2012	0.0095	
2/6/2013	0.0094	
8/13/2013	0.13	
2/5/2014	0.066	
8/4/2014	0.043	
2/3/2015	0.031	
8/3/2015	0.039 (D)	
2/16/2016	0.038	
8/31/2016	0.0286	
11/30/2016	0.0258	
2/23/2017	0.0278	
5/9/2017	0.0308	
7/18/2017	0.0407	
10/18/2017	0.049	
2/21/2018	0.0285	
8/7/2018	0.029	
2/26/2019		0.026
6/13/2019		0.021
8/21/2019		0.02
10/10/2019		0.018
3/17/2020		0.024
8/28/2020		0.014
9/22/2020		0.014
3/2/2021		0.015
8/18/2021		0.014

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	0.03	
1/4/2011	0.065	
2/17/2011	0.061	
3/11/2011	0.066	
3/28/2011	0.04	
9/7/2011	0.041	
3/4/2012	0.046	
9/10/2012	0.084	
2/6/2013	0.042	
8/14/2013	0.042	
2/4/2014	0.046	
8/4/2014	0.027	
2/2/2015	0.02	
8/3/2015	0.017 (D)	
2/16/2016	0.032	
9/1/2016	0.0377	
11/30/2016	0.0148	
2/24/2017	0.029	
5/10/2017	0.0182	
7/18/2017	0.0187	
10/17/2017	0.0157	
2/20/2018	0.0151	
8/8/2018	0.019	
2/26/2019		0.017
6/12/2019		0.017
8/19/2019		0.02
10/10/2019		0.018
3/18/2020		0.038
8/28/2020		0.026
9/22/2020		0.026
3/1/2021		0.035
8/18/2021		0.04

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	0.02	
3/5/2012	0.048	
9/5/2012	0.07	
2/5/2013	0.068	
8/14/2013	0.036	
2/5/2014	0.044	
8/4/2014	0.058	
2/3/2015	0.033	
8/3/2015	0.037 (D)	
2/16/2016	0.04	
9/1/2016	0.0345	
12/1/2016	0.0342	
2/24/2017	0.0347	
5/10/2017	0.0363	
7/17/2017	0.0274	
10/16/2017	0.0151	
2/21/2018	0.0174	
8/7/2018	0.015	
2/26/2019		0.014
6/13/2019		0.014
8/21/2019		0.014
10/9/2019		0.015
3/18/2020		0.015
8/27/2020		0.013
9/23/2020		0.012
3/2/2021		0.011
8/18/2021		0.013

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	0.025	
11/18/2009	0.025	
1/5/2010	0.018	
3/3/2010	0.022	
9/7/2010	0.019	
3/10/2011	0.017	
9/8/2011	0.019	
3/5/2012	0.027	
9/5/2012	0.04	
2/5/2013	0.056	
8/13/2013	0.07	
2/4/2014	0.051	
8/5/2014	0.041	
2/3/2015	0.04	
8/4/2015	0.042	
2/16/2016	0.068	
9/1/2016	0.0536	
11/29/2016	0.0459	
2/23/2017	0.0581	
5/10/2017	0.0873	
7/18/2017	0.0994	
10/18/2017	0.0757	
2/19/2018	0.0703	
8/6/2018	0.076	
2/25/2019		0.045
6/13/2019		0.062
8/20/2019		0.06
10/8/2019		0.054
3/17/2020		0.031
8/27/2020		0.045
9/23/2020		0.044
3/3/2021		0.043
8/18/2021		0.035

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.003	
3/5/2012	<0.003	
9/5/2012	<0.003	
2/5/2013	<0.003	
8/13/2013	<0.003	
2/4/2014	<0.003	
8/5/2014	7.5E-05 (J)	
2/2/2015	0.00023 (J)	
8/4/2015	<0.003 (D)	
2/16/2016	<0.003	
8/31/2016	0.0001 (J)	
11/29/2016	<0.003	
2/23/2017	<0.003	
5/9/2017	8E-05 (J)	
7/18/2017	<0.003	
10/17/2017	0.0001 (J)	
2/21/2018	<0.003	
8/7/2018	7.4E-05 (J)	
2/26/2019		7.5E-05 (J)
6/13/2019		<0.003
8/20/2019		0.0001 (J)
10/9/2019		0.00013 (J)
3/17/2020		7.6E-05 (J)
8/27/2020		0.00024 (J)
9/22/2020		0.00021 (J)
3/1/2021		0.00023 (J)
8/18/2021		0.0003 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.003	
1/4/2011	<0.003	
2/17/2011	<0.003	
3/11/2011	<0.003	
3/28/2011	<0.003	
9/7/2011	<0.003	
3/6/2012	<0.003	
9/11/2012	<0.003	
2/6/2013	<0.003	
8/13/2013	<0.003	
2/4/2014	<0.003	
8/5/2014	<0.003	
2/2/2015	<0.003	
8/4/2015	<0.003	
2/17/2016	<0.003	
8/31/2016	<0.003	
11/28/2016	<0.003	
2/22/2017	<0.003	
5/10/2017	<0.003	
7/18/2017	<0.003	
10/17/2017	<0.003	
2/20/2018	<0.003	
8/8/2018	7E-05 (J)	
2/26/2019		5.3E-05 (J)
6/12/2019		<0.003
8/20/2019		0.00017 (J)
10/9/2019		0.00014 (J)
3/18/2020		0.00012 (J)
8/28/2020		0.0002 (J)
9/22/2020		0.00021 (J)
3/1/2021		0.00032 (J)
8/18/2021		0.00022 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.003	
3/5/2012	<0.003	
9/5/2012	<0.003	
2/6/2013	<0.003	
8/13/2013	<0.003	
2/5/2014	<0.003	
8/4/2014	0.0011 (J)	
2/3/2015	0.00061 (J)	
8/3/2015	0.00051 (JD)	
2/16/2016	0.00084 (J)	
8/31/2016	0.0003 (J)	
11/30/2016	0.0004 (J)	
2/23/2017	0.0003 (J)	
5/9/2017	0.0002 (J)	
7/18/2017	0.0002 (J)	
10/18/2017	0.0004 (J)	
2/21/2018	<0.003	
8/7/2018	0.00026 (J)	
2/26/2019		0.00038 (J)
6/13/2019		0.00051 (J)
8/21/2019		0.00046 (J)
10/10/2019		0.00039 (J)
3/17/2020		0.00095 (J)
8/28/2020		0.0005 (J)
9/22/2020		0.00042 (J)
3/2/2021		0.00081
8/18/2021		0.0011

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.003	
1/4/2011	<0.003	
2/17/2011	<0.003	
3/11/2011	<0.003	
3/28/2011	<0.003	
9/7/2011	<0.003	
3/4/2012	<0.003	
9/10/2012	<0.003	
2/6/2013	<0.003	
8/14/2013	<0.003	
2/4/2014	<0.003	
8/4/2014	<0.003	
2/2/2015	<0.003	
8/3/2015	<0.003 (D)	
2/16/2016	<0.003	
9/1/2016	<0.003	
11/30/2016	<0.003	
2/24/2017	<0.003	
5/10/2017	<0.003	
7/18/2017	<0.003	
10/17/2017	<0.003	
2/20/2018	<0.003	
8/8/2018	<0.003	
2/26/2019		<0.003
6/12/2019		<0.003
8/19/2019		<0.003
10/10/2019		<0.003
3/18/2020		<0.003
8/28/2020		<0.003
9/22/2020		5.8E-05 (J)
3/1/2021		6E-05 (J)
8/18/2021		0.00011 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.003	
3/5/2012	<0.003	
9/5/2012	<0.003	
2/5/2013	<0.003	
8/14/2013	<0.003	
2/5/2014	<0.003	
8/4/2014	0.00026 (J)	
2/3/2015	0.00023 (J)	
8/3/2015	0.00046 (JD)	
2/16/2016	0.00048 (J)	
9/1/2016	0.0005 (J)	
12/1/2016	0.0003 (J)	
2/24/2017	0.0002 (J)	
5/10/2017	0.0003 (J)	
7/17/2017	0.0004 (J)	
10/16/2017	0.0006 (J)	
2/21/2018	<0.003	
8/7/2018	0.00096 (J)	
2/26/2019		0.0015 (J)
6/13/2019		0.0015 (J)
8/21/2019		0.0028 (J)
10/9/2019		0.0022 (J)
3/18/2020		0.0028 (J)
8/27/2020		0.0023 (J)
9/23/2020		0.0023 (J)
3/2/2021		0.0037
8/18/2021		0.0033

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.0025	
3/5/2012	<0.0025	
9/5/2012	<0.0025	
2/5/2013	<0.0025	
8/13/2013	<0.0025	
2/4/2014	<0.0025	
8/5/2014	<0.0025	
2/2/2015	<0.0025	
8/4/2015	<0.0025 (D)	
2/16/2016	<0.0025	
8/31/2016	<0.0025	
11/29/2016	8E-05 (J)	
2/23/2017	<0.0025	
5/9/2017	<0.0025	
7/18/2017	<0.0025	
10/17/2017	<0.0025	
2/21/2018	<0.0025	
8/7/2018	<0.0025	
2/26/2019		<0.0025
6/13/2019		<0.0025
8/20/2019		<0.0025
10/9/2019		<0.0025
3/17/2020		<0.0025
8/27/2020		0.00012 (J)
9/22/2020		0.00016 (J)
3/1/2021		0.00013 (J)
8/18/2021		0.00017 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.0025	
1/4/2011	<0.0025	
2/17/2011	<0.0025	
3/11/2011	<0.0025	
3/28/2011	<0.0025	
9/7/2011	<0.0025	
3/6/2012	<0.0025	
9/11/2012	<0.0025	
2/6/2013	<0.0025	
8/13/2013	<0.0025	
2/4/2014	<0.0025	
8/5/2014	<0.0025	
2/2/2015	<0.0025	
8/4/2015	<0.0025	
2/17/2016	<0.0025	
8/31/2016	0.0001 (J)	
11/28/2016	0.0001 (J)	
2/22/2017	<0.0025	
5/10/2017	<0.0025	
7/18/2017	<0.0025	
10/17/2017	<0.0025	
2/20/2018	<0.0025	
8/8/2018	<0.0025	
2/26/2019		<0.0025
6/12/2019		<0.0025
8/20/2019		<0.0025
10/9/2019		<0.0025
3/18/2020		<0.0025
8/28/2020		0.00015 (J)
9/22/2020		0.00016 (J)
3/1/2021		0.00016 (J)
8/18/2021		0.00016 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.0025	
3/5/2012	<0.0025	
9/5/2012	<0.0025	
2/6/2013	<0.0025	
8/13/2013	<0.0025	
2/5/2014	<0.0025	
8/4/2014	0.00034 (J)	
2/3/2015	<0.0025	
8/3/2015	<0.0025 (D)	
2/16/2016	0.00025 (J)	
8/31/2016	<0.0025	
11/30/2016	<0.0025	
2/23/2017	<0.0025	
5/9/2017	<0.0025	
7/18/2017	<0.0025	
10/18/2017	<0.0025	
2/21/2018	<0.0025	
8/7/2018	<0.0025	
2/26/2019		0.00011 (J)
6/13/2019		0.00021 (J)
8/21/2019		<0.0025
10/10/2019		0.00018 (J)
3/17/2020		0.00037 (J)
8/28/2020		0.00014 (J)
9/22/2020		0.00013 (J)
3/2/2021		0.00021 (J)
8/18/2021		0.00022 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.0005	
1/4/2011	<0.0005	
2/17/2011	<0.0005	
3/11/2011	<0.0005	
3/28/2011	<0.0005	
9/7/2011	<0.0005	
3/4/2012	<0.0005	
9/10/2012	<0.0005	
2/6/2013	<0.0005	
8/14/2013	<0.0005	
2/4/2014	<0.0005	
8/4/2014	<0.0005	
2/2/2015	<0.0005	
8/3/2015	<0.0005 (D)	
2/16/2016	<0.0005	
9/1/2016	0.0001 (J)	
11/30/2016	<0.0005	
2/24/2017	<0.0005	
5/10/2017	<0.0005	
7/18/2017	<0.0005	
10/17/2017	<0.0005	
2/20/2018	<0.0005	
8/8/2018	<0.0005	
2/26/2019		<0.0005
6/12/2019		<0.0005
8/19/2019		<0.0005
10/10/2019		<0.0005
3/18/2020		<0.0005
8/28/2020		<0.0005
9/22/2020		<0.0005
3/1/2021		<0.0005
8/18/2021		<0.0005

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.001	
3/5/2012	<0.001	
9/5/2012	<0.001	
2/5/2013	<0.001	
8/14/2013	<0.001	
2/5/2014	<0.001	
8/4/2014	0.00045 (J)	
2/3/2015	<0.001	
8/3/2015	0.00046 (JD)	
2/16/2016	0.00097 (J)	
9/1/2016	0.0005 (J)	
12/1/2016	0.0004 (J)	
2/24/2017	0.0003 (J)	
5/10/2017	0.0003 (J)	
7/17/2017	0.0004 (J)	
10/16/2017	0.0006 (J)	
2/21/2018	<0.001	
8/7/2018	0.00083 (J)	
2/26/2019		0.00081 (J)
6/13/2019		0.00073 (J)
8/21/2019		0.0012 (J)
10/9/2019		0.0011 (J)
3/18/2020		0.0012 (J)
8/27/2020		0.00091 (J)
9/23/2020		0.00094 (J)
3/2/2021		0.0011
8/18/2021		0.001

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
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	
8/31/2016	<0.005	
11/28/2016	<0.005	
2/22/2017	<0.005	
5/8/2017	<0.005	
7/17/2017	<0.005	
10/16/2017	<0.005	
2/19/2018	<0.005	
8/6/2018	<0.005	
2/25/2019		<0.005
6/12/2019		<0.005
8/19/2019		<0.005
10/8/2019		<0.005
3/17/2020		<0.005
8/26/2020		<0.005
9/22/2020		<0.005
3/2/2021		<0.005
8/20/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/5/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	<0.01	
2/2/2015	0.0028	
8/4/2015	<0.01 (D)	
2/16/2016	<0.01	
8/31/2016	0.0012 (J)	
11/29/2016	0.0009 (J)	
2/23/2017	0.001 (J)	
5/9/2017	0.0011 (J)	
7/18/2017	0.0008 (J)	
10/17/2017	0.001 (J)	
2/21/2018	<0.01	
8/7/2018	<0.01	
2/26/2019		<0.01
6/13/2019		0.0009 (J)
8/20/2019		0.0011 (J)
10/9/2019		0.0012 (J)
3/17/2020		0.001 (J)
8/27/2020		0.0013 (J)
9/22/2020		0.0012 (J)
3/1/2021		0.0012 (J)
8/18/2021		0.0015 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.005	
1/4/2011	<0.005	
2/17/2011	<0.005	
3/11/2011	<0.005	
3/28/2011	<0.005	
9/7/2011	<0.005	
3/6/2012	<0.005	
9/11/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	0.0017	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/2/2015	<0.005	
8/4/2015	<0.005	
2/17/2016	<0.005	
8/31/2016	<0.005	
11/28/2016	<0.005	
2/22/2017	<0.005	
5/10/2017	0.0008 (J)	
7/18/2017	<0.005	
10/17/2017	<0.005	
2/20/2018	<0.005	
8/8/2018	<0.005	
2/26/2019		<0.005
6/12/2019		<0.005
8/20/2019		<0.005
10/9/2019		0.00059 (J)
3/18/2020		0.0004 (J)
8/28/2020		0.00057 (J)
9/22/2020		<0.005
3/1/2021		<0.005
8/18/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	0.0019	
2/5/2014	0.0023	
8/4/2014	0.002	
2/3/2015	0.0014	
8/3/2015	0.0012 (JD)	
2/16/2016	0.0017	
8/31/2016	0.0013 (J)	
11/30/2016	0.001 (J)	
2/23/2017	0.0012 (J)	
5/9/2017	0.0016 (J)	
7/18/2017	0.0009 (J)	
10/18/2017	0.001 (J)	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019		<0.005
6/13/2019		0.00073 (J)
8/21/2019		0.001 (J)
10/10/2019		0.0014 (J)
3/17/2020		0.0013 (J)
8/28/2020		0.00088 (J)
9/22/2020		0.0011 (J)
3/2/2021		0.001 (J)
8/18/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.005	
1/4/2011	0.0062	
2/17/2011	<0.005	
3/11/2011	<0.005	
3/28/2011	<0.005	
9/7/2011	<0.005	
3/4/2012	<0.005	
9/10/2012	<0.005	
2/6/2013	<0.005	
8/14/2013	<0.005	
2/4/2014	<0.005	
8/4/2014	<0.005	
2/2/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
9/1/2016	<0.005	
11/30/2016	0.0013 (J)	
2/24/2017	<0.005	
5/10/2017	0.0007 (J)	
7/18/2017	0.0011 (J)	
10/17/2017	<0.005	
2/20/2018	<0.005	
8/8/2018	<0.005	
2/26/2019		<0.005
6/12/2019		<0.005
8/19/2019		0.00051 (J)
10/10/2019		0.00057 (J)
3/18/2020		<0.005
8/28/2020		<0.005
9/22/2020		<0.005
3/1/2021		<0.005
8/18/2021		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/5/2013	<0.01	
8/14/2013	0.0016	
2/5/2014	0.0018	
8/4/2014	0.0029	
2/3/2015	0.0017	
8/3/2015	0.0028 (D)	
2/16/2016	0.0028	
9/1/2016	0.0021 (J)	
12/1/2016	0.0017 (J)	
2/24/2017	0.0018 (J)	
5/10/2017	0.0024 (J)	
7/17/2017	0.0017 (J)	
10/16/2017	0.0023 (J)	
2/21/2018	<0.01	
8/7/2018	0.0024 (J)	
2/26/2019		0.0019 (J)
6/13/2019		0.0018 (J)
8/21/2019		0.0024 (J)
10/9/2019		0.0024 (J)
3/18/2020		0.0023 (J)
8/27/2020		0.0022 (J)
9/23/2020		0.002 (J)
3/2/2021		0.0021 (J)
8/18/2021		0.0023 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	<0.01	
11/18/2009	<0.01	
1/5/2010	<0.01	
3/3/2010	<0.01	
9/7/2010	<0.01	
3/10/2011	<0.01	
9/8/2011	0.0018	
3/5/2012	<0.01	
9/5/2012	0.0013	
2/5/2013	<0.01	
8/13/2013	0.0025	
2/4/2014	0.0013	
8/5/2014	0.0018	
2/3/2015	0.0015	
8/4/2015	0.0028	
2/16/2016	0.001 (J)	
9/1/2016	0.0015 (J)	
11/29/2016	0.0014 (J)	
2/23/2017	0.0017 (J)	
5/10/2017	0.0015 (J)	
7/18/2017	0.0012 (J)	
10/18/2017	0.0012 (J)	
2/19/2018	<0.01	
8/6/2018	<0.01	
2/25/2019		<0.01
6/13/2019		0.00089 (J)
8/20/2019		0.0017 (J)
10/8/2019		0.0014 (J)
3/17/2020		0.0013 (J)
8/27/2020		0.0012 (J)
9/23/2020		0.0015 (J)
3/3/2021		0.0014 (J)
8/18/2021		0.0015 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
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	
8/31/2016	0.0053 (J)	
11/28/2016	0.0036 (J)	
2/22/2017	0.0049 (J)	
5/8/2017	0.0059 (J)	
7/17/2017	0.0046 (J)	
10/16/2017	0.0034 (J)	
2/19/2018	<0.005	
8/6/2018	0.003 (J)	
2/25/2019		0.001 (J)
6/12/2019		0.003 (J)
8/19/2019		0.0035 (J)
10/8/2019		0.0039 (J)
3/17/2020		0.003 (J)
8/26/2020		0.2 (o)
9/22/2020		0.16 (o)
3/2/2021		0.21 (o)
8/20/2021		0.074 (o)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	0.015	
3/5/2012	<0.005	
9/5/2012	0.0018	
2/5/2013	0.0013	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/2/2015	0.0015	
8/4/2015	<0.005 (D)	
2/16/2016	<0.005	
8/31/2016	0.0006 (J)	
11/29/2016	<0.005	
2/23/2017	0.0009 (J)	
5/9/2017	0.0008 (J)	
7/18/2017	0.0032 (J)	
10/17/2017	0.0007 (J)	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019		<0.005
6/13/2019		0.00033 (J)
8/20/2019		0.00079 (J)
10/9/2019		0.00064 (J)
3/17/2020		0.00054 (J)
8/27/2020		0.00081 (J)
9/22/2020		0.0008 (J)
3/1/2021		0.00083 (J)
8/18/2021		0.0014 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	0.038	
1/4/2011	0.049	
2/17/2011	0.044	
3/11/2011	0.038	
3/28/2011	0.029	
9/7/2011	0.031	
3/6/2012	0.021	
9/11/2012	0.017	
2/6/2013	0.025	
8/13/2013	0.023	
2/4/2014	0.019	
8/5/2014	0.023	
2/2/2015	0.022	
8/4/2015	0.021	
2/17/2016	0.024	
8/31/2016	0.0239	
11/28/2016	0.0189	
2/22/2017	0.0184	
5/10/2017	0.0213	
7/18/2017	0.0261	
10/17/2017	0.0182	
2/20/2018	<0.005	
8/8/2018	0.014	
2/26/2019		0.029
6/12/2019		0.013
8/20/2019		0.014
10/9/2019		0.024
3/18/2020		0.019
8/28/2020		0.0072
9/22/2020		0.0054
3/1/2021		0.00074 (J)
8/18/2021		0.00066 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	<0.005	
2/5/2014	<0.005	
8/4/2014	<0.005	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
8/31/2016	<0.005	
11/30/2016	<0.005	
2/23/2017	<0.005	
5/9/2017	<0.005	
7/18/2017	<0.005	
10/18/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019		<0.005
6/13/2019		0.01
8/21/2019		0.0016 (J)
10/10/2019		<0.005
3/17/2020		0.011
8/28/2020		0.0041 (J)
9/22/2020		0.0021 (J)
3/2/2021		0.0086
8/18/2021		0.01

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.005	
1/4/2011	0.0036	
2/17/2011	0.0035	
3/11/2011	0.0053	
3/28/2011	<0.005	
9/7/2011	0.0033	
3/4/2012	0.0032	
9/10/2012	0.0067	
2/6/2013	0.0024	
8/14/2013	0.0014	
2/4/2014	<0.005	
8/4/2014	<0.005	
2/2/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	0.0082	
9/1/2016	0.0023 (J)	
11/30/2016	0.0008 (J)	
2/24/2017	0.0025 (J)	
5/10/2017	<0.005	
7/18/2017	0.0005 (J)	
10/17/2017	0.0006 (J)	
2/20/2018	<0.005	
8/8/2018	0.001 (J)	
2/26/2019		<0.005
6/12/2019		0.00078 (J)
8/19/2019		0.001 (J)
10/10/2019		0.00099 (J)
3/18/2020		0.0031 (J)
8/28/2020		0.00049 (J)
9/22/2020		0.00039 (J)
3/1/2021		0.0016 (J)
8/18/2021		0.0027 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/14/2013	<0.005	
2/5/2014	<0.005	
8/4/2014	<0.005	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
9/1/2016	<0.005	
12/1/2016	<0.005	
2/24/2017	<0.005	
5/10/2017	<0.005	
7/17/2017	<0.005	
10/16/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019		<0.005
6/13/2019		<0.005
8/21/2019		0.00034 (J)
10/9/2019		0.00031 (J)
3/18/2020		0.00044 (J)
8/27/2020		<0.005
9/23/2020		<0.005
3/2/2021		0.00039 (J)
8/18/2021		0.00053 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	<0.005	
11/18/2009	<0.005	
1/5/2010	<0.005	
3/3/2010	<0.005	
9/7/2010	<0.005	
3/10/2011	<0.005	
9/8/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/3/2015	<0.005	
8/4/2015	0.0014	
2/16/2016	<0.005	
9/1/2016	<0.005	
11/29/2016	<0.005	
2/23/2017	<0.005	
5/10/2017	<0.005	
7/18/2017	<0.005	
10/18/2017	<0.005	
2/19/2018	<0.005	
8/6/2018	<0.005	
2/25/2019		<0.005
6/13/2019		<0.005
8/20/2019		<0.005
10/8/2019		<0.005
3/17/2020		<0.005
8/27/2020		<0.005
9/23/2020		<0.005
3/3/2021		<0.005
8/18/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	0.0047	
9/11/2007	<0.025	
3/20/2008	<0.025	
8/27/2008	0.0074	
3/3/2009	<0.025	
11/18/2009	0.0029	
3/3/2010	0.005	
9/8/2010	<0.025	
3/10/2011	0.0029	
9/8/2011	<0.025	
3/5/2012	<0.025	
9/10/2012	<0.025	
2/6/2013	<0.025	
8/12/2013	<0.025	
2/5/2014	<0.025	
8/5/2014	0.005	
2/4/2015	0.0025 (J)	
8/3/2015	0.0014 (J)	
2/16/2016	0.0011 (J)	
2/22/2017	0.0011 (J)	
2/19/2018	<0.025	
8/6/2018	<0.025	
2/25/2019		<0.025
6/12/2019		0.00034 (J)
10/8/2019		0.00041 (J)
3/17/2020		0.00078 (J)
9/22/2020		0.0041 (J)
3/2/2021		0.0027 (J)
8/20/2021		0.0012 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/2/2015	0.0031 (J)	
8/4/2015	<0.005 (D)	
2/16/2016	<0.005	
2/23/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019		<0.005
6/13/2019		<0.005
10/9/2019		0.00079 (J)
3/17/2020		0.0004 (J)
9/22/2020		<0.005
3/1/2021		<0.005
8/18/2021		0.00067 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.005	
1/4/2011	<0.005	
2/17/2011	<0.005	
3/11/2011	<0.005	
3/28/2011	<0.005	
9/7/2011	<0.005	
3/6/2012	<0.005	
9/11/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/2/2015	<0.005	
8/4/2015	<0.005	
2/17/2016	<0.005	
2/22/2017	<0.005	
2/20/2018	<0.005	
8/8/2018	<0.005	
2/26/2019		<0.005
6/12/2019		<0.005
10/9/2019		0.00024 (J)
3/18/2020		<0.005
9/22/2020		<0.005
3/1/2021		<0.005
8/18/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	0.016	
2/6/2013	<0.005	
8/13/2013	<0.005	
2/5/2014	<0.005	
8/4/2014	0.0012 (J)	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	0.00082 (J)	
2/23/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019		<0.005
6/13/2019		<0.005
10/10/2019		0.00033 (J)
3/17/2020		0.00039 (J)
9/22/2020		<0.005
3/2/2021		<0.005
8/18/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.005	
1/4/2011	0.0049	
2/17/2011	<0.005	
3/11/2011	<0.005	
3/28/2011	<0.005	
9/7/2011	<0.005	
3/4/2012	<0.005	
9/10/2012	<0.005	
2/6/2013	<0.005	
8/14/2013	<0.005	
2/4/2014	<0.005	
8/4/2014	<0.005	
2/2/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	0.00088 (J)	
2/24/2017	<0.005	
2/20/2018	<0.005	
8/8/2018	<0.005	
2/26/2019		<0.005
6/12/2019		0.00025 (J)
10/10/2019		<0.005
3/18/2020		0.00021 (J)
9/22/2020		<0.005
3/1/2021		<0.005
8/18/2021		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/14/2013	<0.005	
2/5/2014	<0.005	
8/4/2014	0.0015 (J)	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
2/24/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019		<0.005
6/13/2019		0.00049 (J)
10/9/2019		0.00087 (J)
3/18/2020		0.00097 (J)
9/23/2020		<0.005
3/2/2021		<0.005
8/18/2021		0.0022 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	0.0028	
11/18/2009	0.0027	
1/5/2010	0.0035	
3/3/2010	<0.005	
9/7/2010	<0.005	
3/10/2011	<0.005	
9/8/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	0.0012 (J)	
2/3/2015	0.0013 (J)	
8/4/2015	0.0043 (J)	
2/16/2016	<0.005	
2/23/2017	0.0018 (J)	
2/19/2018	<0.005	
8/6/2018	0.0016 (J)	
2/25/2019		0.0016 (J)
6/13/2019		0.0011 (J)
10/8/2019		0.0011 (J)
3/17/2020		0.00091 (J)
9/23/2020		<0.005
3/3/2021		<0.005
8/18/2021		0.00083 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
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	
8/31/2016	<0.001	
11/28/2016	<0.001	
2/22/2017	<0.001	
5/8/2017	<0.001	
7/17/2017	<0.001	
10/16/2017	<0.001	
2/19/2018	<0.001	
8/6/2018	<0.001	
2/25/2019		<0.001
6/12/2019		<0.001
8/19/2019		<0.001
10/8/2019		<0.001
3/17/2020		<0.001
8/26/2020		<0.001
9/22/2020		0.0001 (J)
3/2/2021		<0.001
8/20/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.001	
3/5/2012	<0.001	
9/5/2012	<0.001	
2/5/2013	<0.001	
8/13/2013	<0.001	
2/4/2014	<0.001	
8/5/2014	<0.001	
2/2/2015	<0.001	
8/4/2015	<0.001 (D)	
2/16/2016	<0.001	
8/31/2016	<0.001	
11/29/2016	<0.001	
2/23/2017	<0.001	
5/9/2017	<0.001	
7/18/2017	<0.001	
10/17/2017	<0.001	
2/21/2018	<0.001	
8/7/2018	<0.001	
2/26/2019		<0.001
6/13/2019		<0.001
8/20/2019		<0.001
10/9/2019		5.2E-05 (J)
3/17/2020		<0.001
8/27/2020		6.7E-05 (J)
9/22/2020		<0.001
3/1/2021		<0.001
8/18/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.001	
1/4/2011	<0.001	
2/17/2011	<0.001	
3/11/2011	<0.001	
3/28/2011	<0.001	
9/7/2011	<0.001	
3/6/2012	<0.001	
9/11/2012	<0.001	
2/6/2013	<0.001	
8/13/2013	<0.001	
2/4/2014	<0.001	
8/5/2014	<0.001	
2/2/2015	<0.001	
8/4/2015	<0.001	
2/17/2016	<0.001	
8/31/2016	<0.001	
11/28/2016	<0.001	
2/22/2017	<0.001	
5/10/2017	0.0001 (J)	
7/18/2017	7E-05 (J)	
10/17/2017	<0.001	
2/20/2018	<0.001	
8/8/2018	<0.001	
2/26/2019		<0.001
6/12/2019		<0.001
8/20/2019		6.1E-05 (J)
10/9/2019		5.7E-05 (J)
3/18/2020		<0.001
8/28/2020		8.4E-05 (J)
9/22/2020		8.2E-05 (J)
3/1/2021		7E-05 (J)
8/18/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.001	
3/5/2012	<0.001	
9/5/2012	<0.001	
2/6/2013	<0.001	
8/13/2013	<0.001	
2/5/2014	<0.001	
8/4/2014	<0.001	
2/3/2015	<0.001	
8/3/2015	<0.001 (D)	
2/16/2016	<0.001	
8/31/2016	0.0001 (J)	
11/30/2016	<0.001	
2/23/2017	<0.001	
5/9/2017	<0.001	
7/18/2017	<0.001	
10/18/2017	8E-05 (J)	
2/21/2018	<0.001	
8/7/2018	<0.001	
2/26/2019		<0.001
6/13/2019		<0.001
8/21/2019		8.2E-05 (J)
10/10/2019		<0.001
3/17/2020		0.00015 (J)
8/28/2020		5.4E-05 (J)
9/22/2020		6.4E-05 (J)
3/2/2021		9.6E-05 (J)
8/18/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.001	
1/4/2011	<0.001	
2/17/2011	<0.001	
3/11/2011	<0.001	
3/28/2011	<0.001	
9/7/2011	<0.001	
3/4/2012	<0.001	
9/10/2012	<0.001	
2/6/2013	<0.001	
8/14/2013	<0.001	
2/4/2014	<0.001	
8/4/2014	<0.001	
2/2/2015	<0.001	
8/3/2015	<0.001 (D)	
2/16/2016	<0.001	
9/1/2016	<0.001	
11/30/2016	<0.001	
2/24/2017	<0.001	
5/10/2017	<0.001	
7/18/2017	<0.001	
10/17/2017	<0.001	
2/20/2018	<0.001	
8/8/2018	<0.001	
2/26/2019		<0.001
6/12/2019		<0.001
8/19/2019		<0.001
10/10/2019		<0.001
3/18/2020		<0.001
8/28/2020		<0.001
9/22/2020		4.1E-05 (J)
3/1/2021		<0.001
8/18/2021		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.001	
3/5/2012	<0.001	
9/5/2012	<0.001	
2/5/2013	<0.001	
8/14/2013	<0.001	
2/5/2014	<0.001	
8/4/2014	<0.001	
2/3/2015	<0.001	
8/3/2015	<0.001 (D)	
2/16/2016	<0.001	
9/1/2016	<0.001	
12/1/2016	<0.001	
2/24/2017	<0.001	
5/10/2017	<0.001	
7/17/2017	<0.001	
10/16/2017	<0.001	
2/21/2018	<0.001	
8/7/2018	<0.001	
2/26/2019		<0.001
6/13/2019		<0.001
8/21/2019		7E-05 (J)
10/9/2019		5.9E-05 (J)
3/18/2020		7.9E-05 (J)
8/27/2020		4.9E-05 (J)
9/23/2020		0.00019 (J)
3/2/2021		5.4E-05 (J)
8/18/2021		<0.001

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
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)	
8/31/2016	<0.0002	
11/28/2016	<0.0002	
2/22/2017	<0.0002	
5/8/2017	<0.0002	
7/17/2017	<0.0002	
10/16/2017	<0.0002	
2/19/2018	<0.0002	
8/6/2018	<0.0002	
2/25/2019		7.4E-05 (J)
6/12/2019		<0.0002
8/19/2019		<0.0002
10/8/2019		<0.0002
5/6/2020		<0.0002
8/26/2020		<0.0002
9/22/2020		<0.0002
3/2/2021		<0.0002
8/20/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.0002	
3/5/2012	<0.0002	
9/5/2012	<0.0002	
2/5/2013	<0.0002	
8/13/2013	<0.0002	
2/4/2014	<0.0002	
8/5/2014	<0.0002	
2/2/2015	<0.0002	
8/4/2015	<0.0002 (D)	
2/16/2016	<0.0002	
8/31/2016	<0.0002	
11/29/2016	<0.0002	
2/23/2017	<0.0002	
5/9/2017	<0.0002	
7/18/2017	<0.0002	
10/17/2017	<0.0002	
2/21/2018	<0.0002	
8/7/2018	<0.0002	
2/26/2019		5.9E-05 (J)
6/13/2019		<0.0002
8/20/2019		<0.0002
10/9/2019		<0.0002
5/6/2020		<0.0002
8/27/2020		<0.0002
9/22/2020		<0.0002
3/1/2021		<0.0002
8/18/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.0002	
1/4/2011	<0.0002	
2/17/2011	<0.0002	
3/11/2011	<0.0002	
3/28/2011	<0.0002	
9/7/2011	<0.0002	
3/6/2012	<0.0002	
9/11/2012	<0.0002	
2/6/2013	<0.0002	
8/13/2013	<0.0002	
2/4/2014	<0.0002	
8/5/2014	<0.0002	
2/2/2015	<0.0002	
8/4/2015	<0.0002	
2/17/2016	<0.0002	
8/31/2016	<0.0002	
11/28/2016	<0.0002	
2/22/2017	<0.0002	
5/10/2017	<0.0002	
7/18/2017	<0.0002	
10/17/2017	<0.0002	
2/20/2018	<0.0002	
8/8/2018	<0.0002	
2/26/2019		7.1E-05 (J)
6/12/2019		<0.0002
8/20/2019		<0.0002
10/9/2019		<0.0002
5/7/2020		<0.0002
8/28/2020		<0.0002
9/22/2020		<0.0002
3/1/2021		<0.0002
8/18/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.0002	
3/5/2012	<0.0002	
9/5/2012	<0.0002	
2/6/2013	<0.0002	
8/13/2013	<0.0002	
2/5/2014	<0.0002	
8/4/2014	<0.0002	
2/3/2015	<0.0002	
8/3/2015	<0.0002 (D)	
2/16/2016	1.34E-05 (J)	
8/31/2016	<0.0002	
11/30/2016	<0.0002	
2/23/2017	<0.0002	
5/9/2017	<0.0002	
7/18/2017	<0.0002	
10/18/2017	<0.0002	
2/21/2018	<0.0002	
8/7/2018	<0.0002	
2/26/2019		6.4E-05 (J)
6/13/2019		<0.0002
8/21/2019		<0.0002
10/10/2019		0.00043 (J)
5/7/2020		<0.0002
8/28/2020		<0.0002
9/22/2020		<0.0002
3/2/2021		<0.0002
8/18/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.0002	
1/4/2011	<0.0002	
2/17/2011	<0.0002	
3/11/2011	<0.0002	
3/28/2011	<0.0002	
9/7/2011	<0.0002	
3/4/2012	<0.0002	
9/10/2012	<0.0002	
2/6/2013	0.00014	
8/14/2013	<0.0002	
2/4/2014	<0.0002	
8/4/2014	<0.0002	
2/2/2015	<0.0002	
8/3/2015	<0.0002 (D)	
2/16/2016	<0.0002	
9/1/2016	<0.0002	
11/30/2016	<0.0002	
2/24/2017	<0.0002	
5/10/2017	<0.0002	
7/18/2017	<0.0002	
10/17/2017	<0.0002	
2/20/2018	<0.0002	
8/8/2018	<0.0002	
2/26/2019		5.8E-05 (J)
6/12/2019		<0.0002
8/19/2019		<0.0002
10/10/2019		<0.0002
5/7/2020		<0.0002
8/28/2020		<0.0002
9/22/2020		<0.0002
3/1/2021		<0.0002
8/18/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.0002	
3/5/2012	<0.0002	
9/5/2012	<0.0002	
2/5/2013	<0.0002	
8/14/2013	<0.0002	
2/5/2014	<0.0002	
8/4/2014	<0.0002	
2/3/2015	<0.0002	
8/3/2015	<0.0002 (D)	
2/16/2016	<0.0002	
9/1/2016	<0.0002	
12/1/2016	<0.0002	
2/24/2017	<0.0002	
5/10/2017	<0.0002	
7/17/2017	<0.0002	
10/16/2017	<0.0002	
2/21/2018	<0.0002	
8/7/2018	<0.0002	
2/26/2019		6E-05 (J)
6/13/2019		<0.0002
8/21/2019		<0.0002
10/9/2019		<0.0002
5/7/2020		<0.0002
8/27/2020		<0.0002
9/23/2020		<0.0002
3/2/2021		<0.0002
8/18/2021		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	<0.0002	
11/18/2009	<0.0002	
1/5/2010	<0.0002	
3/3/2010	<0.0002	
9/7/2010	<0.0002	
3/10/2011	<0.0002	
9/8/2011	<0.0002	
3/5/2012	<0.0002	
9/5/2012	<0.0002	
2/5/2013	<0.0002	
8/13/2013	<0.0002	
2/4/2014	<0.0002	
8/5/2014	<0.0002	
2/3/2015	<0.0002	
8/4/2015	<0.0002	
2/16/2016	1.13E-05 (J)	
9/1/2016	<0.0002	
11/29/2016	<0.0002	
2/23/2017	<0.0002	
5/10/2017	<0.0002	
7/18/2017	<0.0002	
10/18/2017	<0.0002	
2/19/2018	<0.0002	
8/6/2018	<0.0002	
2/25/2019		6.7E-05 (J)
6/13/2019		<0.0002
8/20/2019		<0.0002
10/8/2019		<0.0002
5/6/2020		<0.0002
8/27/2020		<0.0002
9/23/2020		<0.0002
3/3/2021		<0.0002
8/18/2021		<0.0002

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	0.0061	
9/11/2007	0.021	
3/20/2008	<0.005	
8/27/2008	<0.005	
3/3/2009	0.005	
11/18/2009	0.0052	
3/3/2010	0.011	
9/8/2010	0.012	
3/10/2011	0.0032	
9/8/2011	0.0046	
3/5/2012	0.0053	
9/10/2012	0.0074	
2/6/2013	0.0077	
8/12/2013	0.016	
2/5/2014	0.019	
8/5/2014	0.0057	
2/4/2015	0.0055	
8/3/2015	0.0055	
2/16/2016	0.0039	
2/22/2017	0.0051 (J)	
2/19/2018	<0.005	
8/6/2018	0.003 (J)	
2/25/2019		0.0026 (J)
6/12/2019		0.0038 (J)
10/8/2019		0.0051 (J)
3/17/2020		0.0066
9/22/2020		0.027
3/2/2021		0.034
8/20/2021		0.014

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	0.009	
3/5/2012	0.0035	
9/5/2012	0.0027	
2/5/2013	0.0026	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	0.0013 (J)	
2/2/2015	0.0023 (J)	
8/4/2015	<0.01 (D)	
2/16/2016	<0.01	
2/23/2017	0.0026 (J)	
2/21/2018	0.001 (J)	
8/7/2018	<0.01	
2/26/2019		<0.01
6/13/2019		0.00072 (J)
10/9/2019		0.0015 (J)
3/17/2020		0.00087 (J)
9/22/2020		0.0021 (J)
3/1/2021		0.0024 (J)
8/18/2021		0.0028 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	0.0096	
1/4/2011	0.0084	
2/17/2011	0.0088	
3/11/2011	0.0058	
3/28/2011	0.0058	
9/7/2011	0.005	
3/6/2012	<0.005	
9/11/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	0.003	
2/4/2014	0.0026	
8/5/2014	0.0015 (J)	
2/2/2015	<0.005	
8/4/2015	<0.005	
2/17/2016	<0.005	
2/22/2017	0.0009 (J)	
2/20/2018	<0.005	
8/8/2018	<0.005	
2/26/2019		0.0068 (J)
6/12/2019		0.00043 (J)
10/9/2019		0.00058 (J)
3/18/2020		0.00063 (J)
9/22/2020		<0.005
3/1/2021		<0.005
8/18/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	0.0054	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/6/2013	<0.005	
8/13/2013	0.0032	
2/5/2014	0.0039	
8/4/2014	0.0024 (J)	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
2/23/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019		<0.005
6/13/2019		<0.005
10/10/2019		<0.005
3/17/2020		0.00056 (J)
9/22/2020		<0.005
3/2/2021		<0.005
8/18/2021		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.01	
1/4/2011	<0.01	
2/17/2011	<0.01	
3/11/2011	<0.01	
3/28/2011	<0.01	
9/7/2011	<0.01	
3/4/2012	<0.01	
9/10/2012	<0.01	
2/6/2013	<0.01	
8/14/2013	<0.01	
2/4/2014	0.0033	
8/4/2014	0.0015 (J)	
2/2/2015	<0.01	
8/3/2015	<0.01 (D)	
2/16/2016	<0.01	
2/24/2017	0.0021 (J)	
2/20/2018	<0.01	
8/8/2018	0.0012 (J)	
2/26/2019		<0.01
6/12/2019		0.00082 (J)
10/10/2019		0.00084 (J)
3/18/2020		0.0026 (J)
9/22/2020		0.00077 (J)
3/1/2021		0.0021 (J)
8/18/2021		0.0026 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.0025	
3/5/2012	<0.0025	
9/5/2012	<0.0025	
2/5/2013	<0.0025	
8/14/2013	0.0032	
2/5/2014	0.0032	
8/4/2014	0.0059	
2/3/2015	0.0013 (J)	
8/3/2015	0.0039 (D)	
2/16/2016	0.0036	
2/24/2017	0.0019 (J)	
2/21/2018	0.0013 (J)	
8/7/2018	0.0019 (J)	
2/26/2019		0.0023 (J)
6/13/2019		0.0019 (J)
10/9/2019		0.0019 (J)
3/18/2020		0.002 (J)
9/23/2020		0.0012 (J)
3/2/2021		0.0014 (J)
8/18/2021		0.0016 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	<0.005	
11/18/2009	<0.005	
1/5/2010	<0.005	
3/3/2010	<0.005	
9/7/2010	<0.005	
3/10/2011	<0.005	
9/8/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/13/2013	<0.005	
2/4/2014	<0.005	
8/5/2014	<0.005	
2/3/2015	<0.005	
8/4/2015	<0.005	
2/16/2016	<0.005	
2/23/2017	0.0015 (J)	
2/19/2018	<0.005	
8/6/2018	0.0026 (J)	
2/25/2019		0.0023 (J)
6/13/2019		0.0037 (J)
10/8/2019		0.0021 (J)
3/17/2020		0.0011 (J)
9/23/2020		0.0016 (J)
3/3/2021		0.0016 (J)
8/18/2021		0.0012 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/5/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	<0.01	
2/2/2015	<0.01	
8/4/2015	<0.01 (D)	
2/16/2016	<0.01	
8/31/2016	0.0039 (J)	
11/29/2016	0.0033 (J)	
2/23/2017	0.0097 (J)	
5/9/2017	0.0066 (J)	
7/18/2017	0.0021 (J)	
10/17/2017	0.003 (J)	
2/21/2018	<0.01	
8/7/2018	<0.01	
2/26/2019		0.0014 (J)
6/13/2019		<0.01
8/20/2019		0.0022 (J)
10/9/2019		0.0023 (J)
3/17/2020		0.0017 (J)
8/27/2020		0.011
9/22/2020		0.012
3/1/2021		0.011
8/18/2021		0.019

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.01	
1/4/2011	<0.01	
2/17/2011	<0.01	
3/11/2011	<0.01	
3/28/2011	<0.01	
9/7/2011	<0.01	
3/6/2012	<0.01	
9/11/2012	<0.01	
2/6/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	<0.01	
2/2/2015	<0.01	
8/4/2015	<0.01	
2/17/2016	<0.01	
8/31/2016	0.0029 (J)	
11/28/2016	0.0019 (J)	
2/22/2017	0.0015 (J)	
5/10/2017	0.0016 (J)	
7/18/2017	0.0024 (J)	
10/17/2017	0.0028 (J)	
2/20/2018	<0.01	
8/8/2018	0.0025 (J)	
2/26/2019		0.003 (J)
6/12/2019		0.0034 (J)
8/20/2019		0.0032 (J)
10/9/2019		0.0026 (J)
3/18/2020		0.0032 (J)
8/28/2020		0.0037 (J)
9/22/2020		0.0056 (J)
3/1/2021		0.0043 (J)
8/18/2021		0.0042 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/6/2013	<0.01	
8/13/2013	0.0057	
2/5/2014	<0.01	
8/4/2014	<0.01	
2/3/2015	<0.01	
8/3/2015	<0.01 (D)	
2/16/2016	<0.01	
8/31/2016	0.0038 (J)	
11/30/2016	0.0054 (J)	
2/23/2017	0.002 (J)	
5/9/2017	<0.01	
7/18/2017	0.0027 (J)	
10/18/2017	0.0047 (J)	
2/21/2018	<0.01	
8/7/2018	0.0016 (J)	
2/26/2019		0.002 (J)
6/13/2019		0.0089 (J)
8/21/2019		0.004 (J)
10/10/2019		0.0021 (J)
3/17/2020		0.0096 (J)
8/28/2020		0.0045 (J)
9/22/2020		0.0091 (J)
3/2/2021		0.012
8/18/2021		0.017

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.01	
1/4/2011	<0.01	
2/17/2011	<0.01	
3/11/2011	<0.01	
3/28/2011	<0.01	
9/7/2011	<0.01	
3/4/2012	<0.01	
9/10/2012	0.011	
2/6/2013	0.011	
8/14/2013	0.013	
2/4/2014	0.017	
8/4/2014	0.0085	
2/2/2015	0.0089	
8/3/2015	0.0067 (D)	
2/16/2016	0.0047 (J)	
9/1/2016	0.0132	
11/30/2016	0.0046 (J)	
2/24/2017	0.0108	
5/10/2017	0.0054 (J)	
7/18/2017	0.0047 (J)	
10/17/2017	0.004 (J)	
2/20/2018	<0.01	
8/8/2018	0.0041 (J)	
2/26/2019		0.0027 (J)
6/12/2019		0.0029 (J)
8/19/2019		0.003 (J)
10/10/2019		0.0024 (J)
3/18/2020		0.0046 (J)
8/28/2020		0.0031 (J)
9/22/2020		0.0032 (J)
3/1/2021		0.0041 (J)
8/18/2021		0.0046 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.013	
3/5/2012	0.014	
9/5/2012	0.012	
2/5/2013	0.011	
8/14/2013	0.025	
2/5/2014	0.02	
8/4/2014	0.032	
2/3/2015	0.011	
8/3/2015	0.046 (D)	
2/16/2016	0.022	
9/1/2016	0.0212	
12/1/2016	0.0234	
2/24/2017	0.0154	
5/10/2017	0.0152	
7/17/2017	0.0136	
10/16/2017	0.0242	
2/21/2018	0.0127	
8/7/2018	0.021	
2/26/2019		0.024
6/13/2019		0.027
8/21/2019		0.037
10/9/2019		0.034
3/18/2020		0.028
8/27/2020		0.021
9/23/2020		0.026
3/2/2021		0.019
8/18/2021		0.017

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	<0.01	
11/18/2009	<0.01	
1/5/2010	<0.01	
3/3/2010	<0.01	
9/7/2010	<0.01	
3/10/2011	<0.01	
9/8/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/5/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	<0.01	
2/3/2015	<0.01	
8/4/2015	<0.01	
2/16/2016	<0.01	
9/1/2016	0.002 (J)	
11/29/2016	0.0017 (J)	
2/23/2017	0.0018 (J)	
5/10/2017	0.0023 (J)	
7/18/2017	0.0046 (J)	
10/18/2017	0.0037 (J)	
2/19/2018	<0.01	
8/6/2018	0.0047 (J)	
2/25/2019		0.0051 (J)
6/13/2019		0.0048 (J)
8/20/2019		0.0039 (J)
10/8/2019		0.0031 (J)
3/17/2020		0.0026 (J)
8/27/2020		0.0027 (J)
9/23/2020		0.0031 (J)
3/3/2021		0.002 (J)
8/18/2021		0.0016 (J)

Prediction Limit

Constituent: Silver (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.005	
3/5/2012	<0.005	
9/5/2012	<0.005	
2/5/2013	<0.005	
8/14/2013	<0.005	
2/5/2014	<0.005	
8/4/2014	<0.005	
2/3/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
2/24/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019		<0.005
6/13/2019		<0.005
10/9/2019		<0.005
3/18/2020		<0.005
9/23/2020		<0.005
3/2/2021		<0.005
8/18/2021		0.00084 (J)

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
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	
8/31/2016	<0.001	
11/28/2016	<0.001	
2/22/2017	<0.001	
5/8/2017	6E-05 (J)	
7/17/2017	6E-05 (J)	
10/16/2017	7E-05 (J)	
2/19/2018	<0.001	
8/6/2018	<0.001	
2/25/2019		<0.001
6/12/2019		<0.001
8/19/2019		5.5E-05 (J)
10/8/2019		<0.001
3/17/2020		<0.001
8/26/2020		<0.001
9/22/2020		<0.001
3/2/2021		<0.001
8/20/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.001	
1/4/2011	<0.001	
2/17/2011	<0.001	
3/11/2011	<0.001	
3/28/2011	<0.001	
9/7/2011	<0.001	
3/6/2012	<0.001	
9/11/2012	<0.001	
2/6/2013	<0.001	
8/13/2013	<0.001	
2/4/2014	<0.001	
2/2/2015	<0.001	
2/17/2016	7E-05 (J)	
8/31/2016	<0.001	
11/28/2016	<0.001	
2/22/2017	<0.001	
5/10/2017	<0.001	
7/18/2017	<0.001	
10/17/2017	<0.001	
2/20/2018	<0.001	
8/8/2018	<0.001	
2/26/2019		<0.001
6/12/2019		<0.001
8/20/2019		<0.001
10/9/2019		<0.001
3/18/2020		<0.001
8/28/2020		<0.001
9/22/2020		<0.001
3/1/2021		<0.001
8/18/2021		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.001	
3/5/2012	<0.001	
9/5/2012	<0.001	
2/5/2013	<0.001	
8/14/2013	<0.001	
2/5/2014	<0.001	
8/4/2014	<0.001	
2/3/2015	<0.001	
2/16/2016	<0.001	
9/1/2016	<0.001	
12/1/2016	<0.001	
2/24/2017	<0.001	
5/10/2017	<0.001	
7/17/2017	<0.001	
10/16/2017	<0.001	
2/21/2018	<0.001	
8/7/2018	<0.001	
2/26/2019		<0.001
6/13/2019		<0.001
8/21/2019		5.3E-05 (J)
10/9/2019		<0.001
3/18/2020		<0.001
8/27/2020		<0.001
9/23/2020		<0.001
3/2/2021		<0.001
8/18/2021		<0.001

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	0.0055	
9/11/2007	0.004	
3/20/2008	<0.01	
8/27/2008	0.0029	
3/3/2009	<0.01	
11/18/2009	<0.01	
3/3/2010	<0.01	
9/8/2010	<0.01	
3/10/2011	<0.01	
9/8/2011	<0.01	
3/5/2012	<0.01	
9/10/2012	<0.01	
2/6/2013	<0.01	
8/12/2013	<0.01	
2/5/2014	<0.01	
8/5/2014	<0.01	
2/4/2015	<0.01	
8/3/2015	0.0013 (J)	
2/16/2016	<0.01	
2/22/2017	<0.01	
5/8/2017	<0.01	
7/17/2017	<0.01	
2/19/2018	<0.01	
8/6/2018	<0.01	
2/25/2019		<0.01
6/12/2019		0.0032 (J)
10/8/2019		<0.01
3/17/2020		<0.01
9/22/2020		<0.01
3/2/2021		<0.01
8/20/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/5/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	0.0011 (J)	
2/2/2015	0.0051	
8/4/2015	<0.01 (D)	
2/16/2016	0.00075 (J)	
2/23/2017	<0.01	
5/9/2017	<0.01	
7/18/2017	<0.01	
2/21/2018	<0.01	
8/7/2018	<0.01	
2/26/2019		<0.01
6/13/2019		<0.01
10/9/2019		<0.01
3/17/2020		<0.01
9/22/2020		<0.01
3/1/2021		<0.01
8/18/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	<0.01	
1/4/2011	<0.01	
2/17/2011	<0.01	
3/11/2011	<0.01	
3/28/2011	<0.01	
9/7/2011	<0.01	
3/6/2012	<0.01	
9/11/2012	<0.01	
2/6/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	<0.01	
2/2/2015	<0.01	
8/4/2015	<0.01	
2/17/2016	<0.01	
2/22/2017	<0.01	
5/10/2017	<0.01	
7/18/2017	<0.01	
2/20/2018	<0.01	
8/8/2018	<0.01	
2/26/2019		<0.01
6/12/2019		0.00079 (J)
10/9/2019		<0.01
3/18/2020		<0.01
9/22/2020		<0.01
3/1/2021		<0.01
8/18/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's Intrawell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/6/2013	<0.01	
8/13/2013	<0.01	
2/5/2014	<0.01	
8/4/2014	<0.01	
2/3/2015	<0.01	
8/3/2015	<0.01 (D)	
2/16/2016	<0.01	
2/23/2017	<0.01	
5/9/2017	<0.01	
7/18/2017	<0.01	
2/21/2018	<0.01	
8/7/2018	<0.01	
2/26/2019		<0.01
6/13/2019		0.0021 (J)
10/10/2019		0.0011 (J)
3/17/2020		<0.01
9/22/2020		<0.01
3/2/2021		<0.01
8/18/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.01	
1/4/2011	<0.01	
2/17/2011	<0.01	
3/11/2011	<0.01	
3/28/2011	<0.01	
9/7/2011	<0.01	
3/4/2012	<0.01	
9/10/2012	<0.01	
2/6/2013	<0.01	
8/14/2013	<0.01	
2/4/2014	<0.01	
8/4/2014	<0.01	
2/2/2015	<0.01	
8/3/2015	<0.01 (D)	
2/16/2016	<0.01	
2/24/2017	<0.01	
5/10/2017	<0.01	
7/18/2017	<0.01	
2/20/2018	<0.01	
8/8/2018	<0.01	
2/26/2019		<0.01
6/12/2019		0.00088 (J)
10/10/2019		<0.01
3/18/2020		<0.01
9/22/2020		<0.01
3/1/2021		<0.01
8/18/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/5/2013	<0.01	
8/14/2013	<0.01	
2/5/2014	<0.01	
8/4/2014	0.0022 (J)	
2/3/2015	<0.01	
8/3/2015	0.0019 (JD)	
2/16/2016	0.0011 (J)	
2/24/2017	<0.01	
5/10/2017	<0.01	
7/17/2017	<0.01	
2/21/2018	<0.01	
8/7/2018	<0.01	
2/26/2019		<0.01
6/13/2019		<0.01
10/9/2019		<0.01
3/18/2020		<0.01
9/23/2020		<0.01
3/2/2021		<0.01
8/18/2021		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	<0.01	
11/18/2009	<0.01	
1/5/2010	<0.01	
3/3/2010	<0.01	
9/7/2010	<0.01	
3/10/2011	<0.01	
9/8/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/5/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	0.0015 (J)	
2/3/2015	0.00093 (J)	
8/4/2015	0.0036 (J)	
2/16/2016	0.0011 (J)	
2/23/2017	<0.01	
5/10/2017	<0.01	
7/18/2017	<0.01	
2/19/2018	<0.01	
8/6/2018	0.0029 (J)	
2/25/2019		<0.01
6/13/2019		<0.01
10/8/2019		<0.01
3/17/2020		0.00098 (J)
9/23/2020		<0.01
3/3/2021		<0.01
8/18/2021		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	0.0081	
9/11/2007	0.0049	
3/20/2008	0.004	
8/27/2008	0.0042	
3/3/2009	0.0058	
11/18/2009	0.0038	
3/3/2010	0.0085	
9/8/2010	0.0065	
3/10/2011	0.0029	
9/8/2011	0.004	
3/5/2012	0.0059	
9/10/2012	0.0052	
2/6/2013	0.0038	
8/12/2013	0.0075	
2/5/2014	0.018 (o)	
8/5/2014	0.0037	
2/4/2015	0.0057	
8/3/2015	0.0043	
2/16/2016	0.0024 (J)	
2/22/2017	0.0042 (J)	
5/8/2017	0.0025 (J)	
7/17/2017	0.0032 (J)	
2/19/2018	<0.01	
8/6/2018	0.0037 (J)	
2/25/2019		0.013
6/12/2019		<0.01
10/8/2019		0.0078 (J)
3/17/2020		<0.01
9/22/2020		0.033
3/2/2021		0.031
8/20/2021		0.014

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	0.0048	
3/5/2012	0.0038	
9/5/2012	0.0051	
2/5/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	0.0037	
8/5/2014	0.0019 (J)	
2/2/2015	0.0051	
8/4/2015	0.0017 (JD)	
2/16/2016	0.0015 (J)	
2/23/2017	0.0024 (J)	
5/9/2017	0.0016 (J)	
7/18/2017	0.0015 (J)	
2/21/2018	<0.01	
8/7/2018	0.0044 (J)	
2/26/2019		0.0022 (J)
6/13/2019		<0.01
10/9/2019		0.0078 (J)
3/17/2020		<0.01
9/22/2020		0.0029 (J)
3/1/2021		<0.01
8/18/2021		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
11/22/2010	0.0047	
1/4/2011	0.0038	
2/17/2011	0.0074	
3/11/2011	0.0038	
3/28/2011	<0.01	
9/7/2011	0.0059	
3/6/2012	0.0032	
9/11/2012	0.0029	
2/6/2013	0.0036	
8/13/2013	0.0066	
2/4/2014	0.011	
8/5/2014	0.0032	
2/2/2015	0.0031	
8/4/2015	0.0017 (J)	
2/17/2016	0.0034	
2/22/2017	0.0024 (J)	
5/10/2017	0.0022 (J)	
7/18/2017	0.0017 (J)	
2/20/2018	<0.01	
8/8/2018	0.0021 (J)	
2/26/2019		0.003 (J)
6/12/2019		0.0019 (J)
10/9/2019		0.0069 (J)
3/18/2020		<0.01
9/22/2020		0.003 (J)
3/1/2021		<0.01
8/18/2021		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	0.0064	
3/5/2012	0.0043	
9/5/2012	0.0069	
2/6/2013	<0.01	
8/13/2013	0.011	
2/5/2014	0.026 (o)	
8/4/2014	0.012	
2/3/2015	0.0061	
8/3/2015	0.0037 (D)	
2/16/2016	0.0093	
2/23/2017	0.0031 (J)	
5/9/2017	0.0025 (J)	
7/18/2017	0.0028 (J)	
2/21/2018	0.003 (J)	
8/7/2018	0.0036 (J)	
2/26/2019		0.0033 (J)
6/13/2019		0.0069 (J)
10/10/2019		0.0079 (J)
3/17/2020		<0.01
9/22/2020		0.0036 (J)
3/2/2021		0.0069 (J)
8/18/2021		0.011

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.01	
1/4/2011	<0.01	
2/17/2011	<0.01	
3/11/2011	0.025 (o)	
3/28/2011	<0.01	
9/7/2011	<0.01	
3/4/2012	<0.01	
9/10/2012	<0.01	
2/6/2013	<0.01	
8/14/2013	<0.01	
2/4/2014	0.0034	
8/4/2014	0.0013 (J)	
2/2/2015	<0.01	
8/3/2015	<0.01 (D)	
2/16/2016	0.0017 (J)	
2/24/2017	0.0028 (J)	
5/10/2017	0.0014 (J)	
7/18/2017	0.0015 (J)	
2/20/2018	<0.01	
8/8/2018	0.0033 (J)	
2/26/2019		<0.01
6/12/2019		<0.01
10/10/2019		0.006 (J)
3/18/2020		<0.01
9/22/2020		<0.01
3/1/2021		<0.01
8/18/2021		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	0.0064	
3/5/2012	0.0034	
9/5/2012	0.0035	
2/5/2013	0.0027	
8/14/2013	0.0041	
2/5/2014	0.011	
8/4/2014	0.011	
2/3/2015	0.0044	
8/3/2015	0.011 (D)	
2/16/2016	0.014	
2/24/2017	0.0043 (J)	
5/10/2017	0.0042 (J)	
7/17/2017	0.0055 (J)	
2/21/2018	0.0102	
8/7/2018	0.015	
2/26/2019		0.015
6/13/2019		0.015
10/9/2019		0.025
1/21/2020		0.015
3/18/2020		0.023
9/23/2020		0.018
3/2/2021		0.022
8/18/2021		0.026

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 10/29/2021 8:06 AM View: PL's IntraWell App I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	0.003	
11/18/2009	<0.01	
1/5/2010	0.0027	
3/3/2010	<0.01	
9/7/2010	<0.01	
3/10/2011	<0.01	
9/8/2011	<0.01	
3/5/2012	0.0053	
9/5/2012	0.0033	
2/5/2013	<0.01	
8/13/2013	0.0038	
2/4/2014	0.0046	
8/5/2014	0.0019 (J)	
2/3/2015	0.0026	
8/4/2015	0.0035	
2/16/2016	0.002 (J)	
2/23/2017	0.0038 (J)	
5/10/2017	0.0027 (J)	
7/18/2017	0.0024 (J)	
2/19/2018	<0.01	
8/6/2018	0.004 (J)	
2/25/2019		0.0028 (J)
6/13/2019		<0.01
10/8/2019		0.006 (J)
3/17/2020		<0.01
9/23/2020		<0.01
3/3/2021		<0.01
8/18/2021		<0.01

FIGURE E.

Appendix I & II Trend Test Summary - Intrawell Exceedances - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 8:10 AM

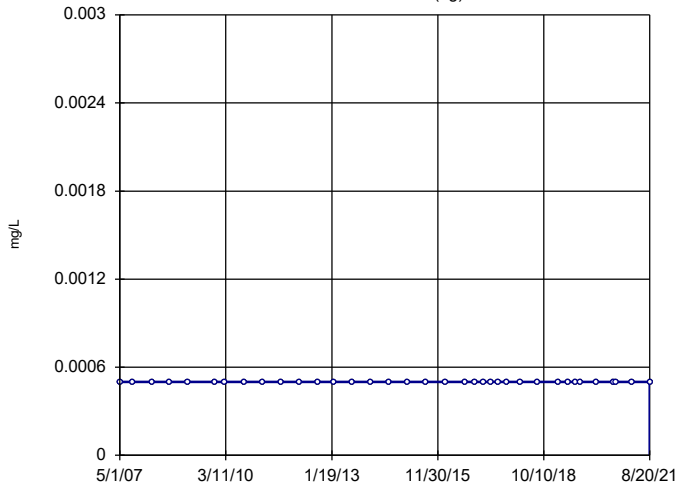
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Zinc (mg/L)	GWC-5R	0.001961	170	98	Yes	23	0	n/a	n/a	0.01	NP

Appendix I & II Trend Test Summary - Prediction Limit Exceedances - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 8:10 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Beryllium (mg/L)	GWA-2 (bg)	0	0	191	No	36	100	n/a	n/a	0.01	NP
Beryllium (mg/L)	GWC-5R	0.0000398	50	124	No	27	25.93	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWA-2 (bg)	-0.0001578	-161	-161	No	32	34.38	n/a	n/a	0.01	NP
Cobalt (mg/L)	GWC-3R	0	22	124	No	27	74.07	n/a	n/a	0.01	NP
Selenium (mg/L)	GWA-2 (bg)	0	0	191	No	36	100	n/a	n/a	0.01	NP
Selenium (mg/L)	GWC-1R	0	-20	-124	No	27	48.15	n/a	n/a	0.01	NP
Selenium (mg/L)	GWC-3R	-0.00004976	-59	-124	No	27	40.74	n/a	n/a	0.01	NP
Zinc (mg/L)	GWA-2 (bg)	0.000108	54	146	No	30	10	n/a	n/a	0.01	NP
Zinc (mg/L)	GWC-5R	0.001961	170	98	Yes	23	0	n/a	n/a	0.01	NP

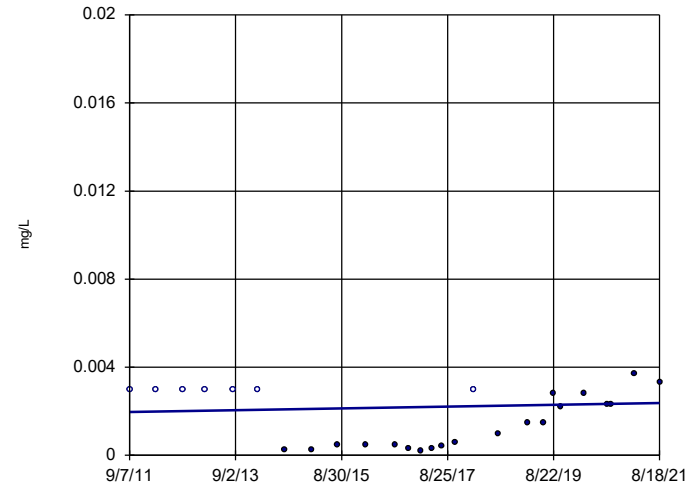
Sen's Slope Estimator
GWA-2 (bg)



n = 36
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 191
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Beryllium Analysis Run 10/29/2021 8:07 AM View: Trend Tests - App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

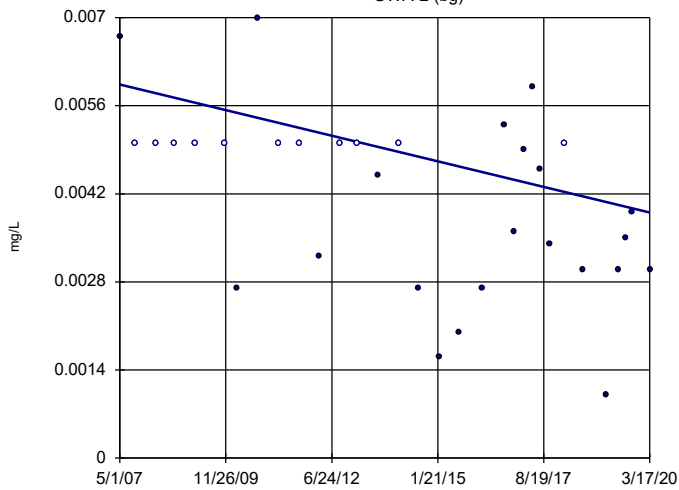
Sen's Slope Estimator
GWC-5R



n = 27
Slope = 0.0000398
units per year.
Mann-Kendall
statistic = 50
critical = 124
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Beryllium Analysis Run 10/29/2021 8:07 AM View: Trend Tests - App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

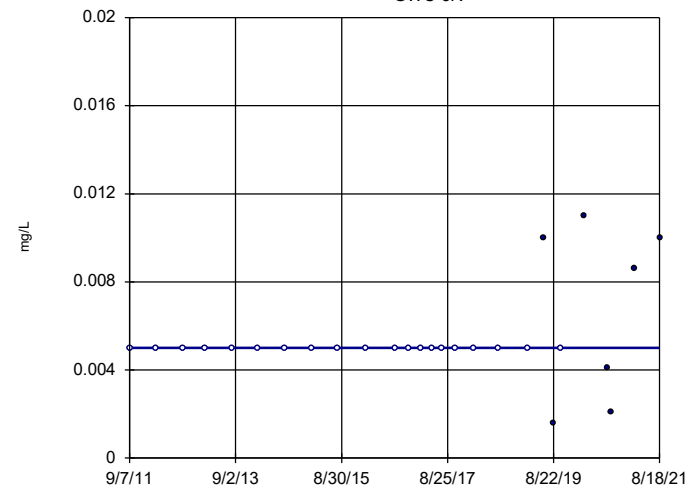
Sen's Slope Estimator
GWA-2 (bg)



n = 32
Slope = -0.0001578
units per year.
Mann-Kendall
statistic = -161
critical = -161
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Cobalt Analysis Run 10/29/2021 8:07 AM View: Trend Tests - App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
GWC-3R

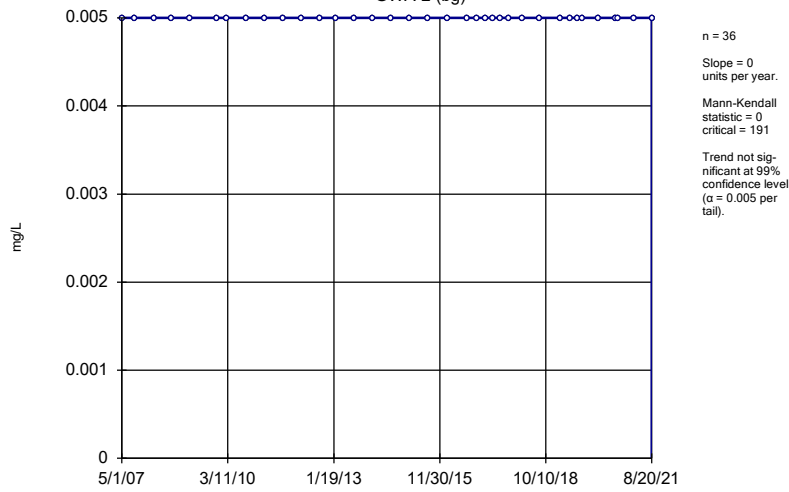


n = 27
Slope = 0
units per year.
Mann-Kendall
statistic = 22
critical = 124
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Cobalt Analysis Run 10/29/2021 8:07 AM View: Trend Tests - App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

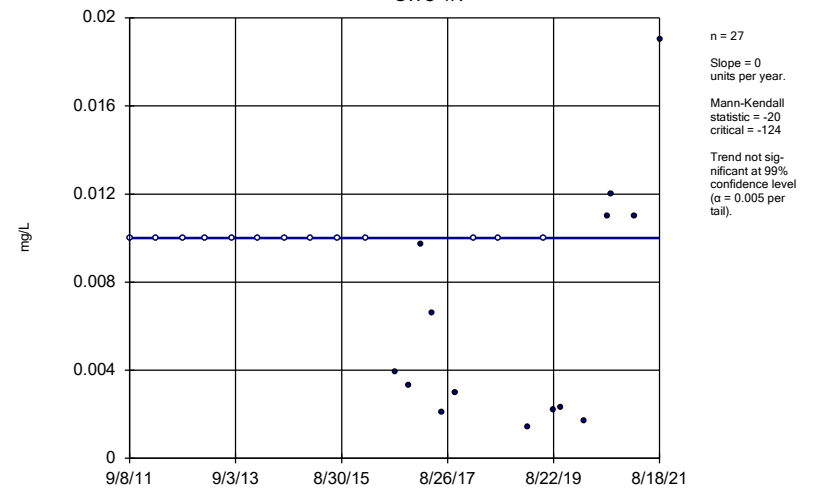
GWA-2 (bg)



Constituent: Selenium Analysis Run 10/29/2021 8:07 AM View: Trend Tests - App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

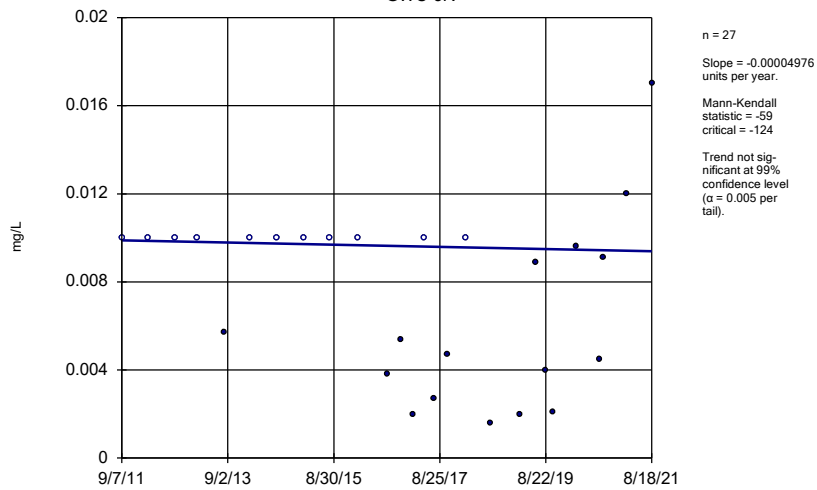
GWC-1R



Constituent: Selenium Analysis Run 10/29/2021 8:07 AM View: Trend Tests - App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

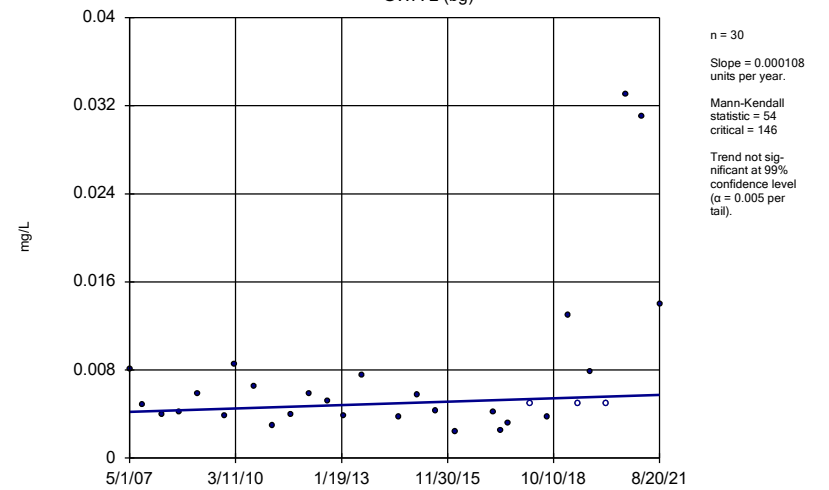
GWC-3R



Constituent: Selenium Analysis Run 10/29/2021 8:07 AM View: Trend Tests - App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

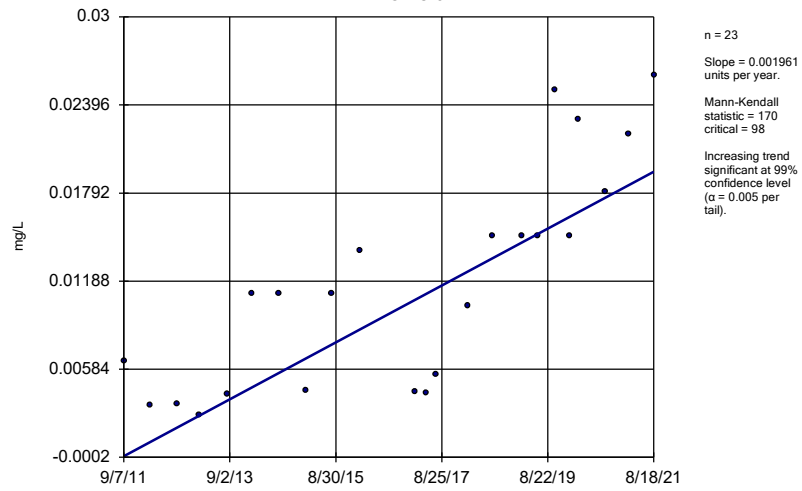
Sen's Slope Estimator

GWA-2 (bg)



Constituent: Zinc Analysis Run 10/29/2021 8:07 AM View: Trend Tests - App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator GWC-5R



Constituent: Zinc Analysis Run 10/29/2021 8:07 AM View: Trend Tests - App I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

FIGURE F.

Appendix III Intrawell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/28/2021, 5:09 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg.	NBg.	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (S.U.)	GWC-5R	5.711	4.765	8/18/2021	4.76	Yes	9	5.238	0.1758	0	None	No	0.0006268	Param Intra	1 of 2

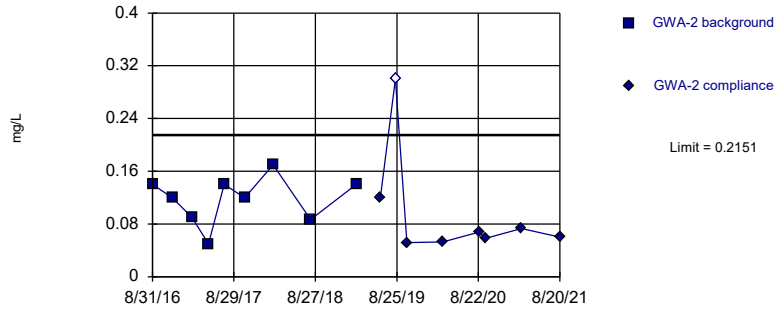
Appendix III Intrawell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/28/2021, 5:09 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBq	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GWA-2	0.2151	n/a	8/20/2021	0.06J	No	9	0.1174		0.03628	0	None	No	0.001254	Param Intra 1 of 2
Fluoride (mg/L)	GWC-1R	0.1	n/a	8/18/2021	0.1ND	No	9	n/a		n/a	55.56	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-2R	0.1	n/a	8/18/2021	0.1ND	No	9	n/a		n/a	55.56	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-3R	0.22	n/a	8/18/2021	0.16	No	9	n/a		n/a	55.56	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-4R	0.15	n/a	8/18/2021	0.1ND	No	9	n/a		n/a	55.56	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-5R	0.37	n/a	8/18/2021	0.056J	No	9	n/a		n/a	55.56	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-6R	0.28	n/a	8/18/2021	0.1ND	No	9	n/a		n/a	55.56	n/a	n/a	0.01809	NP Intra (NDs) 1 of 2
pH (S.U.)	GWA-2	7.106	5.427	8/20/2021	5.86	No	21	6.266		0.401	0	None	No	0.0006268	Param Intra 1 of 2
pH (S.U.)	GWC-1R	5.52	4.49	8/18/2021	5.08	No	9	n/a		n/a	0	n/a	n/a	0.03619	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-2R	6.8	4.35	8/18/2021	4.96	No	16	n/a		n/a	0	n/a	n/a	0.01291	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-3R	5.28	4.31	8/18/2021	4.73	No	9	n/a		n/a	0	n/a	n/a	0.03619	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-4R	6.245	4.827	8/18/2021	5.46	No	10	5.536		0.2783	0	None	No	0.0006268	Param Intra 1 of 2
pH (S.U.)	GWC-5R	5.711	4.765	8/18/2021	4.76	Yes	9	5.238		0.1758	0	None	No	0.0006268	Param Intra 1 of 2
pH (S.U.)	GWC-6R	6.687	5.169	8/18/2021	5.82	No	19	5.928		0.3559	0	None	No	0.0006268	Param Intra 1 of 2

Within Limit

Prediction Limit
Intrawell Parametric

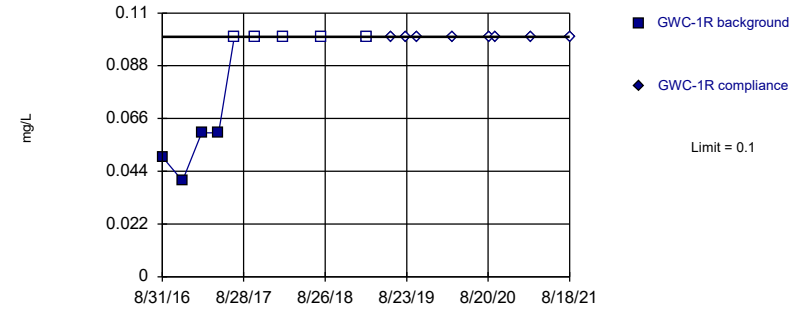


Background Data Summary: Mean=0.1174, Std. Dev.=0.03628, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9425, critical = 0.764. Kappa = 2.69 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: Fluoride Analysis Run 10/28/2021 5:07 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

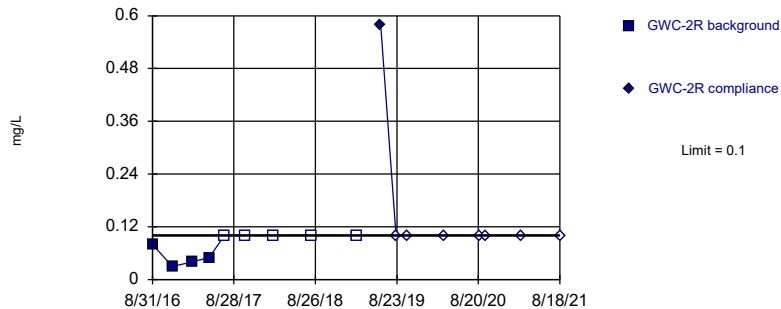


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.03586. Individual comparison alpha = 0.01809 (1 of 2).

Constituent: Fluoride Analysis Run 10/28/2021 5:07 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

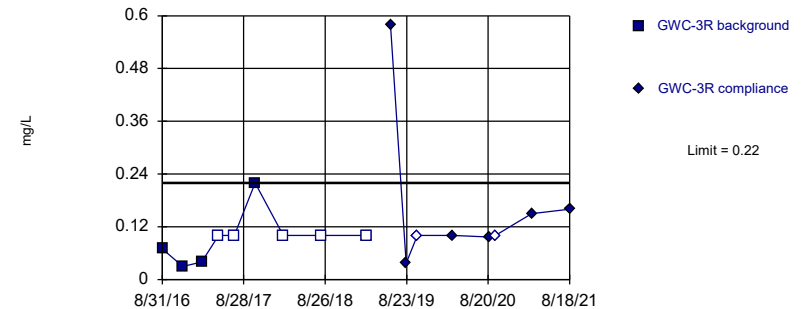


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.03586. Individual comparison alpha = 0.01809 (1 of 2).

Constituent: Fluoride Analysis Run 10/28/2021 5:07 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

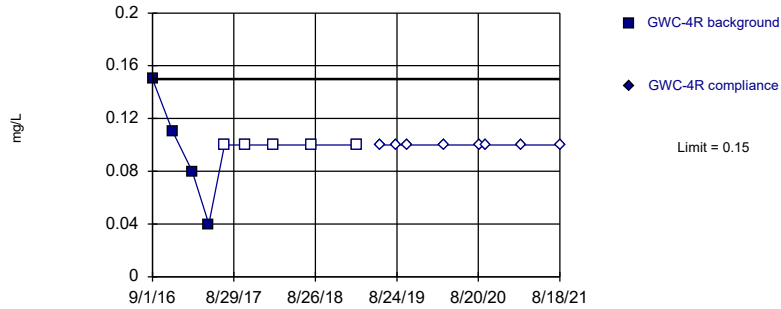
Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.03586. Individual comparison alpha = 0.01809 (1 of 2).

Constituent: Fluoride Analysis Run 10/28/2021 5:07 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

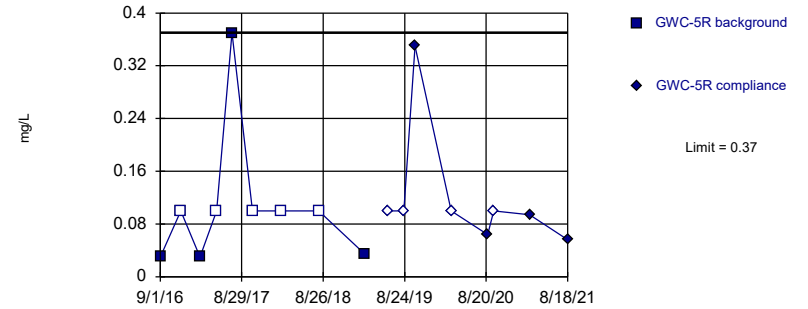
Within Limit Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.03586. Individual comparison alpha = 0.01809 (1 of 2).

Constituent: Fluoride Analysis Run 10/28/2021 5:07 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

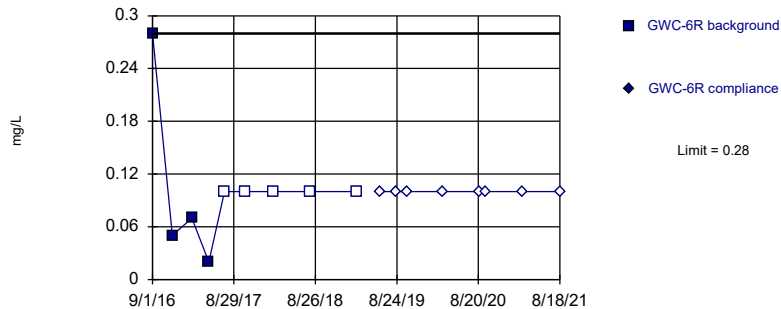
Within Limit Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.03586. Individual comparison alpha = 0.01809 (1 of 2).

Constituent: Fluoride Analysis Run 10/28/2021 5:07 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

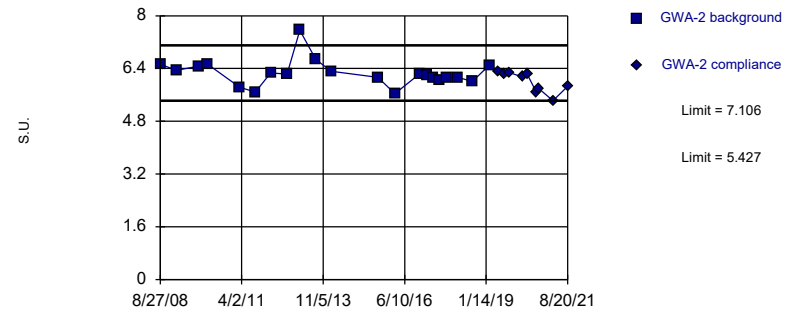
Within Limit Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.03586. Individual comparison alpha = 0.01809 (1 of 2).

Constituent: Fluoride Analysis Run 10/28/2021 5:07 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limits Prediction Limit
Intrawell Parametric

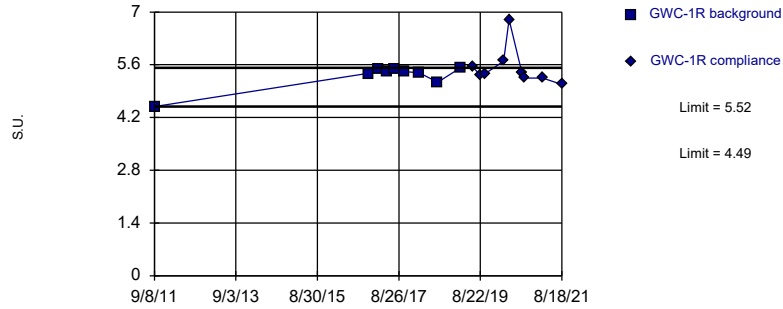


Background Data Summary: Mean=6.266, Std. Dev.=0.401, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8754, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: pH Analysis Run 10/28/2021 5:07 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limits

Prediction Limit
Intrawell Non-parametric

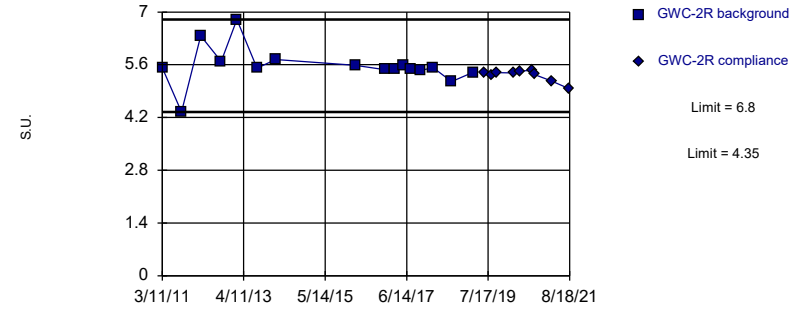


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 9 background values. Well-constituent pair annual alpha = 0.07172. Individual comparison alpha = 0.03619 (1 of 2).

Constituent: pH Analysis Run 10/28/2021 5:07 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limits

Prediction Limit
Intrawell Non-parametric

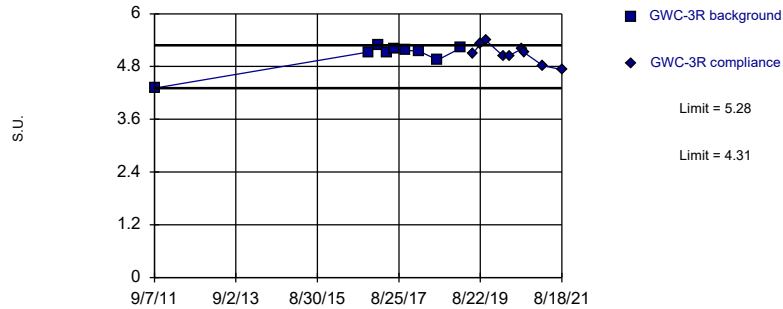


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 16 background values. Well-constituent pair annual alpha = 0.02574. Individual comparison alpha = 0.01291 (1 of 2).

Constituent: pH Analysis Run 10/28/2021 5:07 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limits

Prediction Limit
Intrawell Non-parametric

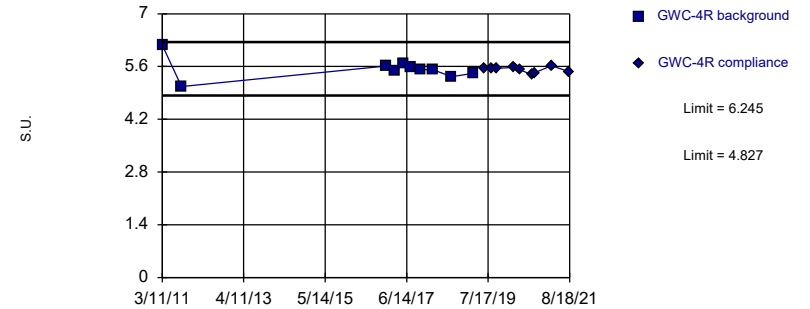


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 9 background values. Well-constituent pair annual alpha = 0.07172. Individual comparison alpha = 0.03619 (1 of 2).

Constituent: pH Analysis Run 10/28/2021 5:07 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limits

Prediction Limit
Intrawell Parametric

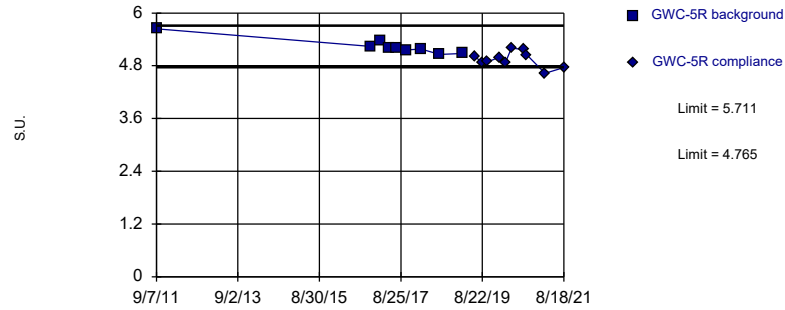


Background Data Summary: Mean=5.536, Std. Dev.=0.2783, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9104, critical = 0.781. Kappa = 2.549 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: pH Analysis Run 10/28/2021 5:07 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Exceeds Limits

Prediction Limit
Intrawell Parametric

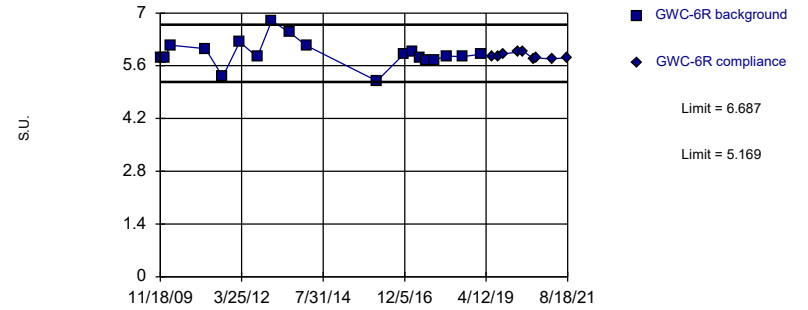


Background Data Summary: Mean=5.238, Std. Dev.=0.1758, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8341, critical = 0.764. Kappa = 2.69 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: pH Analysis Run 10/28/2021 5:07 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limits

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=5.928, Std. Dev.=0.3559, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9219, critical = 0.863. Kappa = 2.132 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: pH Analysis Run 10/28/2021 5:07 PM View: PLs Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/28/2021 5:09 PM View: PLs IntraWell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
8/31/2016	0.14 (J)	
11/28/2016	0.12 (J)	
2/22/2017	0.09 (J)	
5/8/2017	0.05 (J)	
7/17/2017	0.14 (J)	
10/16/2017	0.12 (J)	
2/19/2018	0.17	
8/6/2018	0.087 (J)	
2/25/2019	0.14 (J)	
6/12/2019		0.12 (J)
8/19/2019		<0.3
10/8/2019		0.052 (J)
3/17/2020		0.053 (J)
8/26/2020		0.068 (J)
9/22/2020		0.058 (J)
3/2/2021		0.073 (J)
8/20/2021		0.06 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/28/2021 5:09 PM View: PLs IntraWell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
8/31/2016	0.05 (J)	
11/29/2016	0.04 (J)	
2/23/2017	0.06 (J)	
5/9/2017	0.06 (J)	
7/18/2017	<0.1	
10/17/2017	<0.1	
2/21/2018	<0.1	
8/7/2018	<0.1	
2/26/2019	<0.1	
6/13/2019		<0.1
8/20/2019		<0.1
10/9/2019		<0.1
3/17/2020		<0.1
8/27/2020		<0.1
9/22/2020		<0.1
3/1/2021		<0.1
8/18/2021		<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/28/2021 5:09 PM View: PLs IntraWell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
8/31/2016	0.08 (J)	
11/28/2016	0.03 (J)	
2/22/2017	0.04 (J)	
5/10/2017	0.05 (J)	
7/18/2017	<0.1	
10/17/2017	<0.1	
2/20/2018	<0.1	
8/8/2018	<0.1	
2/26/2019	<0.1	
6/12/2019		0.58
8/20/2019		<0.1
10/9/2019		<0.1
3/18/2020		<0.1
8/28/2020		<0.1
9/22/2020		<0.1
3/1/2021		<0.1
8/18/2021		<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/28/2021 5:09 PM View: PLs IntraWell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
8/31/2016	0.07 (J)	
11/30/2016	0.03 (J)	
2/23/2017	0.04 (J)	
5/9/2017	<0.1	
7/18/2017	<0.1	
10/18/2017	0.22 (J)	
2/21/2018	<0.1	
8/7/2018	<0.1	
2/26/2019	<0.1	
6/13/2019		0.58
8/21/2019		0.037 (J)
10/10/2019		<0.1
3/17/2020		0.1 (J)
8/28/2020		0.097 (J)
9/22/2020		<0.1
3/2/2021		0.15
8/18/2021		0.16

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/28/2021 5:09 PM View: PLs IntraWell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
9/1/2016	0.15 (J)	
11/30/2016	0.11 (J)	
2/24/2017	0.08 (J)	
5/10/2017	0.04 (J)	
7/18/2017	<0.1	
10/17/2017	<0.1	
2/20/2018	<0.1	
8/8/2018	<0.1	
2/26/2019	<0.1	
6/12/2019		<0.1
8/19/2019		<0.1
10/10/2019		<0.1
3/18/2020		<0.1
8/28/2020		<0.1
9/22/2020		<0.1
3/1/2021		<0.1
8/18/2021		<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/28/2021 5:09 PM View: PLs IntraWell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/1/2016	0.03 (J)	
12/1/2016	<0.1	
2/24/2017	0.03 (J)	
5/10/2017	<0.1	
7/17/2017	0.37	
10/16/2017	<0.1	
2/21/2018	<0.1	
8/7/2018	<0.1	
2/26/2019	0.035 (J)	
6/13/2019		<0.1
8/21/2019		<0.1
10/9/2019		0.35
3/18/2020		<0.1
8/27/2020		0.064 (J)
9/23/2020		<0.1
3/2/2021		0.094 (J)
8/18/2021		0.056 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/28/2021 5:09 PM View: PLs IntraWell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/1/2016	0.28 (J)	
11/29/2016	0.05 (J)	
2/23/2017	0.07 (J)	
5/10/2017	0.02 (J)	
7/18/2017	<0.1	
10/18/2017	<0.1	
2/19/2018	<0.1	
8/6/2018	<0.1	
2/25/2019	<0.1	
6/13/2019		<0.1
8/20/2019		<0.1
10/8/2019		<0.1
3/17/2020		<0.1
8/27/2020		<0.1
9/23/2020		<0.1
3/3/2021		<0.1
8/18/2021		<0.1

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/28/2021 5:09 PM View: PLS Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
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	
11/28/2016	6.23	
2/22/2017	6.21	
5/8/2017	6.12	
7/17/2017	6.03	
10/16/2017	6.12	
2/19/2018	6.13	
8/6/2018	6.01	
2/25/2019	6.51	
6/12/2019		6.3
8/19/2019		6.23
10/8/2019		6.28
3/17/2020		6.14
5/6/2020		6.24
8/26/2020		5.67
9/22/2020		5.78
3/2/2021		5.42 (D)
8/20/2021		5.86

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/28/2021 5:09 PM View: PLs IntraWell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	4.49	
11/29/2016	5.37	
2/23/2017	5.5	
5/9/2017	5.41	
7/18/2017	5.5	
10/17/2017	5.42	
2/21/2018	5.39	
8/7/2018	5.14	
2/26/2019	5.52	
6/13/2019		5.55
8/20/2019		5.33
10/9/2019		5.37
3/17/2020		5.7
5/6/2020		6.8
8/27/2020		5.39
9/22/2020		5.25
3/1/2021		5.25
8/18/2021		5.08

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/28/2021 5:09 PM View: PLS Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
3/11/2011	5.52	
9/7/2011	4.35	
3/6/2012	6.37	
9/11/2012	5.69	
2/6/2013	6.8	
8/13/2013	5.51	
2/4/2014	5.74	
2/17/2016	5.59	
11/28/2016	5.47	
2/22/2017	5.48	
5/10/2017	5.6	
7/18/2017	5.49	
10/17/2017	5.45	
2/20/2018	5.52	
8/8/2018	5.15	
2/26/2019	5.4	
6/12/2019		5.38
8/20/2019		5.33
10/9/2019		5.39
3/18/2020		5.38
5/7/2020		5.43
8/28/2020		5.45
9/22/2020		5.34
3/1/2021		5.17
8/18/2021		4.96

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/28/2021 5:09 PM View: PLs IntraWell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	4.31	
11/30/2016	5.13	
2/23/2017	5.28	
5/9/2017	5.12	
7/18/2017	5.21	
10/18/2017	5.17	
2/21/2018	5.15	
8/7/2018	4.95	
2/26/2019	5.22	
6/13/2019		5.08
8/21/2019		5.32
10/10/2019		5.4
3/17/2020		5.03
5/7/2020		5.05
8/28/2020		5.2
9/22/2020		5.11
3/2/2021		4.82
8/18/2021		4.73

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/28/2021 5:09 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
3/11/2011	6.16	
9/7/2011	5.07	
11/30/2016	5.61	
2/24/2017	5.47	
5/10/2017	5.68	
7/18/2017	5.59	
10/17/2017	5.52	
2/20/2018	5.51	
8/8/2018	5.33	
2/26/2019	5.42	
6/12/2019		5.54
8/19/2019		5.56
10/10/2019		5.55
3/18/2020		5.58
5/7/2020		5.52
8/28/2020		5.38
9/22/2020		5.43
3/1/2021		5.62
8/18/2021		5.46

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/28/2021 5:09 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	5.64	
12/1/2016	5.24	
2/24/2017	5.37	
5/10/2017	5.2	
7/17/2017	5.21	
10/16/2017	5.16	
2/21/2018	5.18	
8/7/2018	5.06	
2/26/2019	5.08	
6/13/2019		5.01
8/21/2019		4.88
10/9/2019		4.89
1/21/2020		4.99
3/18/2020		4.88
5/7/2020		5.2
8/27/2020		5.17
9/23/2020		5.04
3/2/2021		4.63
8/18/2021		4.76

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/28/2021 5:09 PM View: PLs Intrawell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
11/18/2009	5.82	
1/5/2010	5.8	
3/3/2010	6.15	
3/10/2011	6.05	
9/8/2011	5.31	
3/5/2012	6.23	
9/5/2012	5.83	
2/5/2013	6.79	
8/13/2013	6.48	
2/4/2014	6.14	
2/16/2016	5.2	
11/29/2016	5.92	
2/23/2017	5.97	
5/10/2017	5.82	
7/18/2017	5.76	
10/18/2017	5.76	
2/19/2018	5.86	
8/6/2018	5.84	
2/25/2019	5.91	
6/13/2019		5.84
8/20/2019		5.85
10/8/2019		5.91
3/17/2020		5.97
5/6/2020		5.99
8/27/2020		5.77
9/23/2020		5.81
3/3/2021		5.78
8/18/2021		5.82

FIGURE G.

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 4:04 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg.NBg	Mean	Std.Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-4R	0.16	n/a	8/18/2021	4.5	Yes	312	n/a	n/a	47.12	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1R	37	n/a	8/18/2021	154	Yes	312	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2R	37	n/a	8/18/2021	45.8	Yes	312	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-4R	37	n/a	8/18/2021	56.2	Yes	312	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-5R	37	n/a	8/18/2021	159	Yes	312	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-6R	37	n/a	8/18/2021	74.5	Yes	312	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2R	8.5	n/a	8/18/2021	26.2	Yes	312	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-4R	8.5	n/a	8/18/2021	150	Yes	312	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-1R	160	n/a	8/18/2021	675	Yes	312	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2R	160	n/a	8/18/2021	223	Yes	312	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-5R	160	n/a	8/18/2021	946	Yes	312	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-6R	160	n/a	8/18/2021	345	Yes	312	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
TDS (mg/L)	GWC-1R	217.3	n/a	8/18/2021	1200	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-2R	217.3	n/a	8/18/2021	474	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-4R	217.3	n/a	8/18/2021	630	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-5R	217.3	n/a	8/18/2021	1660	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-6R	217.3	n/a	8/18/2021	682	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2

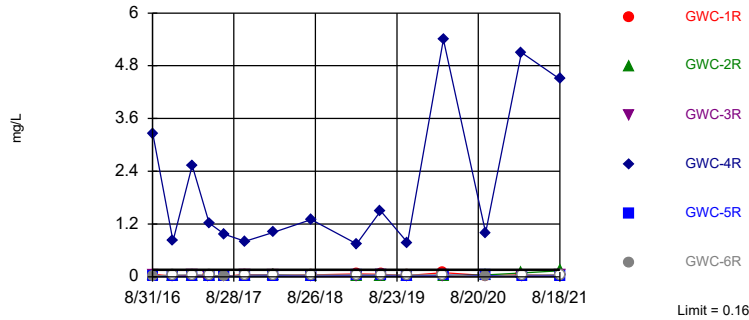
Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 4:04 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-1R	0.16	n/a	8/18/2021	0.029J	No	312	n/a	n/a	n/a	47.12	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-2R	0.16	n/a	8/18/2021	0.14	No	312	n/a	n/a	n/a	47.12	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-3R	0.16	n/a	8/18/2021	0.04ND	No	312	n/a	n/a	n/a	47.12	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-4R	0.16	n/a	8/18/2021	4.5	Yes	312	n/a	n/a	n/a	47.12	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-5R	0.16	n/a	8/18/2021	0.021J	No	312	n/a	n/a	n/a	47.12	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-6R	0.16	n/a	8/18/2021	0.04ND	No	312	n/a	n/a	n/a	47.12	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1R	37	n/a	8/18/2021	154	Yes	312	n/a	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2R	37	n/a	8/18/2021	45.8	Yes	312	n/a	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-3R	37	n/a	8/18/2021	20.2	No	312	n/a	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-4R	37	n/a	8/18/2021	56.2	Yes	312	n/a	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-5R	37	n/a	8/18/2021	159	Yes	312	n/a	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-6R	37	n/a	8/18/2021	74.5	Yes	312	n/a	n/a	n/a	0.9615	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-1R	8.5	n/a	8/18/2021	5.2	No	312	n/a	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2R	8.5	n/a	8/18/2021	26.2	Yes	312	n/a	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-3R	8.5	n/a	8/18/2021	4.6	No	312	n/a	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-4R	8.5	n/a	8/18/2021	150	Yes	312	n/a	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-5R	8.5	n/a	8/18/2021	2.3	No	312	n/a	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6R	8.5	n/a	8/18/2021	5.4	No	312	n/a	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-1R	160	n/a	8/18/2021	675	Yes	312	n/a	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2R	160	n/a	8/18/2021	223	Yes	312	n/a	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-3R	160	n/a	8/18/2021	114	No	312	n/a	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-4R	160	n/a	8/18/2021	118	No	312	n/a	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-5R	160	n/a	8/18/2021	946	Yes	312	n/a	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-6R	160	n/a	8/18/2021	345	Yes	312	n/a	n/a	n/a	6.09	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
TDS (mg/L)	GWC-1R	217.3	n/a	8/18/2021	1200	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2	
TDS (mg/L)	GWC-2R	217.3	n/a	8/18/2021	474	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2	
TDS (mg/L)	GWC-3R	217.3	n/a	8/18/2021	214	No	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2	
TDS (mg/L)	GWC-4R	217.3	n/a	8/18/2021	630	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2	
TDS (mg/L)	GWC-5R	217.3	n/a	8/18/2021	1660	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2	
TDS (mg/L)	GWC-6R	217.3	n/a	8/18/2021	682	Yes	312	10.03	2.584	0.641	None	sqrt(x)	0.001254	Param Inter 1 of 2	

Exceeds Limit: GWC-4R

Prediction Limit
Interwell Non-parametric

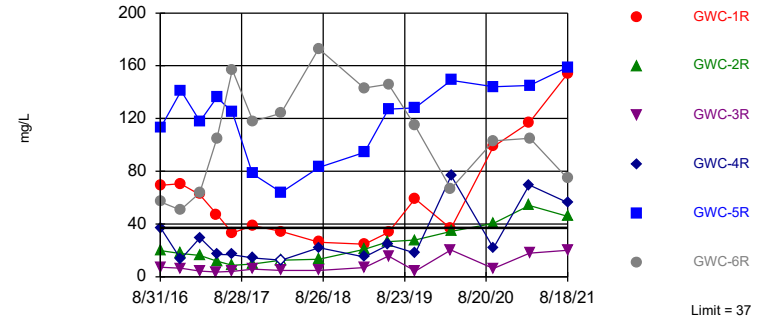


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 312 background values. 47.12% NDs. Annual per-constituent alpha = 0.0005902. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 6 points to limit.

Constituent: Boron Analysis Run 10/29/2021 3:49 PM View: PLs Interwell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Exceeds Limit: GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R

Prediction Limit
Interwell Non-parametric

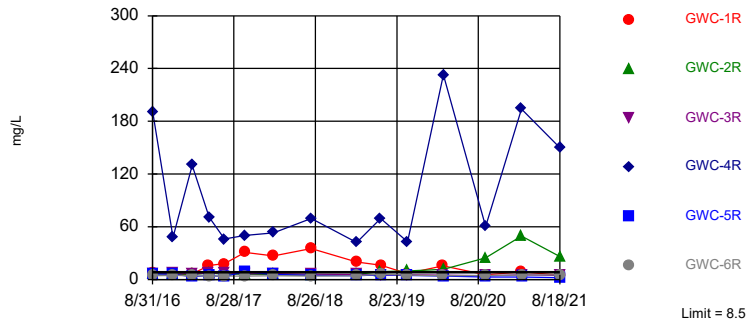


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 312 background values. 0.9615% NDs. Annual per-constituent alpha = 0.0005902. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 6 points to limit.

Constituent: Calcium Analysis Run 10/29/2021 3:49 PM View: PLs Interwell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Exceeds Limit: GWC-2R, GWC-4R

Prediction Limit
Interwell Non-parametric

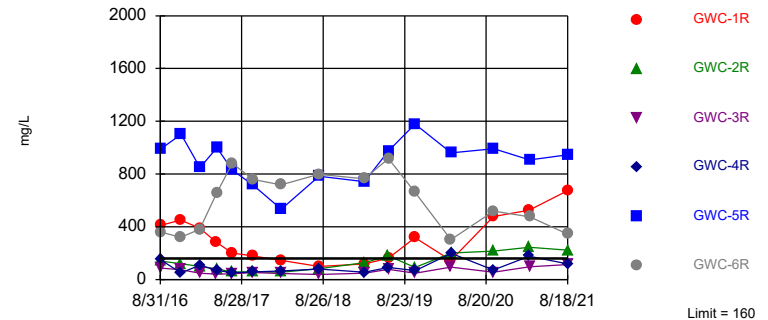


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 312 background values. Annual per-constituent alpha = 0.0005902. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 6 points to limit.

Constituent: Chloride Analysis Run 10/29/2021 3:49 PM View: PLs Interwell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Exceeds Limit: GWC-1R, GWC-2R, GWC-5R, GWC-6R

Prediction Limit
Interwell Non-parametric

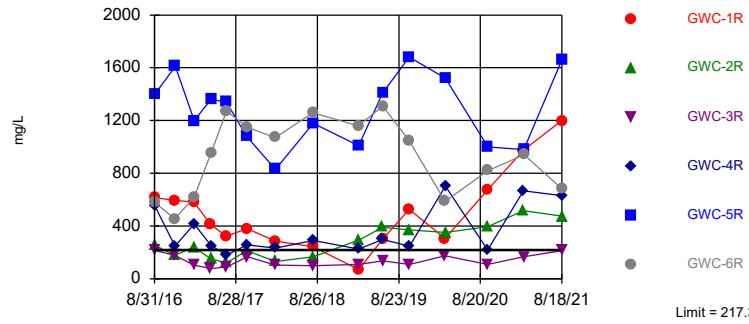


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 312 background values. 6.09% NDs. Annual per-constituent alpha = 0.0005902. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 6 points to limit.

Constituent: Sulfate Analysis Run 10/29/2021 3:49 PM View: PLs Interwell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Exceeds Limit: GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R

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 = 1.823 (c=7, w=6, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.001254. Comparing 6 points to limit.

Constituent: TDS Analysis Run 10/29/2021 3:49 PM View: PLs Interwell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5D (bg)
6/1/2016	<0.04	<0.04	<0.04						
6/2/2016				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
6/6/2016									
6/7/2016									
7/25/2016	<0.04		<0.04	<0.04					
7/26/2016		0.0055 (J)			<0.04	0.0047 (J)	0.0177 (J)	0.0097 (J)	0.0052 (J)
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016		<0.04	<0.04						
9/14/2016	<0.04				0.01 (J)	<0.04			0.0071 (J)
9/15/2016							0.0214 (J)	0.0102 (J)	
9/16/2016									
9/19/2016				<0.04					
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				
11/14/2016									
11/28/2016									
11/29/2016									
11/30/2016									
12/1/2016									
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					
2/21/2017				<0.04					
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	<0.04								
3/2/2017		0.008 (J)	<0.04					0.0084 (J)	
3/3/2017									
3/6/2017						<0.04			
3/7/2017					<0.04				0.0089 (J)
3/8/2017							0.0189 (J)		
4/26/2017	<0.04			<0.04			0.0161 (J)	<0.04	
4/27/2017		0.0066 (J)	<0.04						
4/28/2017									
5/1/2017						<0.04			0.0061 (J)
5/2/2017					<0.04				
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		0.0087 (J)	0.006 (J)		<0.04				0.0079 (J)
6/28/2017	<0.04							<0.04	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-3R	GWA-2 (bg)	GWC-1R
6/1/2016									
6/2/2016									
6/6/2016	<0.04	<0.04							
6/7/2016			<0.04	<0.04	<0.04				
7/25/2016									
7/26/2016									
7/27/2016	0.0059 (J)	<0.04		<0.04	0.008 (J)				
7/28/2016			<0.04						
8/30/2016						0.0166 (J)			
8/31/2016							0.0315 (J)	0.0315 (J)	0.0553 (J)
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	0.0079 (J)				0.0086 (J)				
9/19/2016		<0.04	<0.04	<0.04					
11/1/2016									
11/2/2016				<0.04					
11/3/2016	0.0082 (J)	<0.04	<0.04		0.0077 (J)				
11/4/2016									
11/14/2016						0.0166 (J)			
11/28/2016								0.0095 (J)	
11/29/2016									0.0149 (J)
11/30/2016							0.0089 (J)		
12/1/2016									
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									
2/21/2017									
2/22/2017								<0.04	
2/23/2017							<0.04		0.0082 (J)
2/24/2017						0.0145 (J)			
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				
5/8/2017						0.0141 (J)		0.0084 (J)	
5/9/2017							0.0077 (J)		0.0097 (J)
5/10/2017									
5/26/2017									
6/27/2017									
6/28/2017	0.0079 (J)	<0.04							

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-3R	GWA-2 (bg)	GWC-1R
6/29/2017			<0.04	<0.04	0.0074 (J)				
6/30/2017									
7/11/2017						0.0131 (J)			
7/17/2017								0.0092 (J)	
7/18/2017							0.0073 (J)		0.0123 (J)
10/3/2017			<0.04						
10/4/2017	0.009 (J)			<0.04	0.0077 (J)				
10/5/2017		<0.04							
10/10/2017						0.0124 (J)			
10/11/2017									
10/12/2017									
10/16/2017								<0.04	
10/17/2017									0.0513
10/18/2017							<0.04		
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								<0.04	
2/20/2018									
2/21/2018							0.0399 (J)		0.0378 (J)
4/2/2018						0.013 (J)			
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)				
6/28/2018									
8/6/2018								<0.04	
8/7/2018							0.0049 (J)		0.043
8/8/2018									
9/19/2018						0.012 (J)			
9/24/2018									
9/25/2018	0.007 (J)	0.0046 (J)	0.0054 (J)	<0.04	0.0096 (J)				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								<0.04	
2/26/2019							0.0053 (J)		0.062
3/26/2019									
3/27/2019						0.013 (J)			
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			0.011 (J)		0.0066 (J)				
4/3/2019	0.0053 (J)	<0.04		<0.04					
6/12/2019									
6/13/2019							<0.04	<0.04	0.057
9/24/2019			0.018 (J)						
9/25/2019				<0.04	0.0081 (J)				
9/26/2019	0.0072 (J)	0.0062 (J)							
10/8/2019						0.012 (J)		<0.04	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016							
6/2/2016							
6/6/2016							
6/7/2016							
7/25/2016							
7/26/2016							
7/27/2016							
7/28/2016							
8/30/2016							
8/31/2016	0.0305 (J)						
9/1/2016		0.0108 (J)	0.0191 (J)	3.25			
9/13/2016							
9/14/2016					<0.04		
9/15/2016							
9/16/2016							
9/19/2016							
11/1/2016							
11/2/2016							
11/3/2016							
11/4/2016					<0.04		
11/14/2016							
11/28/2016	0.0206 (J)						
11/29/2016		<0.04					
11/30/2016				0.813			
12/1/2016			0.0088 (J)				
12/15/2016					0.0107 (J)		
1/10/2017							
1/11/2017							
1/12/2017							
1/13/2017							
1/16/2017					<0.04		
2/21/2017							
2/22/2017	0.0192 (J)						
2/23/2017		<0.04					
2/24/2017			0.0067 (J)	2.53			
3/1/2017							
3/2/2017							
3/3/2017					<0.04		
3/6/2017							
3/7/2017							
3/8/2017							
4/26/2017							
4/27/2017							
4/28/2017					<0.04		
5/1/2017							
5/2/2017							
5/8/2017							
5/9/2017							
5/10/2017	0.0179 (J)	<0.04	0.0068 (J)	1.22			
5/26/2017					<0.04		
6/27/2017							
6/28/2017					<0.04		

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/29/2017							
6/30/2017							
7/11/2017							
7/17/2017			0.0102 (J)				
7/18/2017	0.0169 (J)	0.0061 (J)		0.97			
10/3/2017					<0.04		
10/4/2017							
10/5/2017							
10/10/2017							
10/11/2017						0.0135 (J)	
10/12/2017							0.0401
10/16/2017			0.0066 (J)				
10/17/2017	0.0168 (J)			0.804			
10/18/2017		<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			1.01		<0.04	
2/21/2018			0.0268 (J)				
4/2/2018							
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							
6/28/2018						0.053	0.16
8/6/2018		<0.04					
8/7/2018			0.012 (J)			0.024 (J)	0.12
8/8/2018	0.017 (J)			1.3			
9/19/2018							
9/24/2018						0.028 (J)	0.099
9/25/2018							
9/26/2018							
10/1/2018					<0.04		
10/2/2018							
2/25/2019		<0.04					
2/26/2019	0.017 (J)		0.033 (J)	0.75			
3/26/2019							0.096
3/27/2019						0.017 (J)	
3/28/2019							
3/29/2019					0.0065 (J)		
4/1/2019							
4/2/2019							
4/3/2019							
6/12/2019	0.013 (J)			1.5			
6/13/2019		<0.04	0.03 (J)				
9/24/2019					0.0076 (J)		
9/25/2019							
9/26/2019							
10/8/2019		<0.04					

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	0.018 (J)		0.013 (J)			0.017 (J)	0.079
10/10/2019				0.78			
3/17/2020		<0.04					
3/18/2020	0.026 (J)		0.034 (J)	5.4			
3/19/2020					0.0073 (J)		
3/24/2020							0.088 (J)
3/25/2020						0.043 (J)	
9/22/2020	0.046 (J)			1			
9/23/2020		0.0055 (J)	0.028 (J)		<0.04		
9/24/2020						0.037 (J)	0.087 (J)
9/25/2020							
3/1/2021	0.087			5.1			
3/2/2021			0.023 (J)				
3/3/2021		<0.04			<0.04		
3/4/2021						0.033 (J)	0.078
8/18/2021	0.14	<0.04	0.021 (J)	4.5			
8/19/2021							
8/20/2021							
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 10/29/2021 4:04 PM View: PLs Interwell
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-3R	GWA-2 (bg)	GWC-1R
6/1/2016									
6/2/2016									
6/6/2016	1.4	6.2							
6/7/2016			3.7	2.3	2.2				
7/25/2016									
7/26/2016									
7/27/2016	1.19	4.73		2.08	2				
7/28/2016			3.15						
8/30/2016						20.9			
8/31/2016							7.23	9.31	69.4
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	1.5				1.97				
9/19/2016		4.76	3.17	1.97					
11/1/2016									
11/2/2016				2.13					
11/3/2016	1.31	5.25	3.4		1.99				
11/4/2016									
11/14/2016						18.6			
11/28/2016								9.47 (B)	
11/29/2016									70.6 (B)
11/30/2016							6.43 (B)		
12/1/2016									
12/15/2016									
1/10/2017									
1/11/2017	1.25	4.74			2.28				
1/12/2017									
1/13/2017			4.98	2.45					
1/16/2017									
2/21/2017									
2/22/2017								10.4	
2/23/2017							4.25		62.4
2/24/2017						16.1			
3/1/2017	1.26	5.37							
3/2/2017					2.15				
3/3/2017									
3/6/2017			6.28	2.48					
3/7/2017									
3/8/2017									
4/26/2017	1.05	4.28	6.65	2.3					
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017					1.95				
5/8/2017						14.6		14.2	
5/9/2017							3.56		47.4
5/10/2017									
5/26/2017									
6/27/2017									
6/28/2017	1.06	4.95							

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-3R	GWA-2 (bg)	GWC-1R
6/29/2017			6.04	2.54	2.02				
6/30/2017									
7/11/2017						14.3			
7/17/2017								14.1	
7/18/2017							4.16		33.2
10/3/2017			8.28						
10/4/2017	1.1			2.25	2.03				
10/5/2017		5.28							
10/10/2017						12.1			
10/11/2017									
10/12/2017									
10/16/2017								13.6	
10/17/2017									38.7
10/18/2017							5.67		
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								<25	
2/20/2018									
2/21/2018							4.76		34.3
4/2/2018						<25			
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				
6/28/2018									
8/6/2018								11.4 (J)	
8/7/2018							4.7		26.2
8/8/2018									
9/19/2018						11.1 (J)			
9/24/2018									
9/25/2018	1	4.6	10.4 (J)	2.3	2.1				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								12.7 (J)	
2/26/2019							7.1		24.7 (J)
3/26/2019									
3/27/2019						10.8 (J)			
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			8.8		2.5				
4/3/2019	1.2	5.3		2.9					
6/12/2019								18.9	
6/13/2019							15.7		33.8
9/24/2019			7.7						
9/25/2019				2.4	2.6				
9/26/2019	1.1	4.9							
10/8/2019						9.7		28.3	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016							
6/2/2016							
6/6/2016							
6/7/2016							
7/25/2016							
7/26/2016							
7/27/2016							
7/28/2016							
8/30/2016							
8/31/2016	19.9						
9/1/2016		56.8	113	37.1			
9/13/2016							
9/14/2016					23.5		
9/15/2016							
9/16/2016							
9/19/2016							
11/1/2016							
11/2/2016							
11/3/2016							
11/4/2016					23.7		
11/14/2016							
11/28/2016	17.7 (B)						
11/29/2016		50.7 (B)					
11/30/2016				13.4 (B)			
12/1/2016			141 (B)				
12/15/2016					23.1		
1/10/2017							
1/11/2017							
1/12/2017							
1/13/2017							
1/16/2017					23.3		
2/21/2017							
2/22/2017	16.2						
2/23/2017		63.5					
2/24/2017			118	29.5			
3/1/2017							
3/2/2017							
3/3/2017					25.1		
3/6/2017							
3/7/2017							
3/8/2017							
4/26/2017							
4/27/2017							
4/28/2017					30.7		
5/1/2017							
5/2/2017							
5/8/2017							
5/9/2017							
5/10/2017	11.8	105	136	17			
5/26/2017					26.2		
6/27/2017							
6/28/2017					26.1		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/29/2017							
6/30/2017							
7/11/2017							
7/17/2017			125				
7/18/2017	8.69	157		16.8			
10/3/2017					26.7		
10/4/2017							
10/5/2017							
10/10/2017							
10/11/2017						2.74	
10/12/2017							2.9
10/16/2017			78.2				
10/17/2017	9.77			14.3			
10/18/2017		118					
11/20/2017						1.81	10.4
1/10/2018							10.2
1/11/2018						1.54	
2/19/2018		124					<25
2/20/2018	<25			<25		1.71	
2/21/2018			64				
4/2/2018							
4/3/2018						1.4	6.3
6/5/2018							
6/6/2018							
6/7/2018					25		
6/8/2018							
6/11/2018							
6/28/2018						1.4	6.7
8/6/2018		173					
8/7/2018			83			1.2	6.3
8/8/2018	13.4 (J)			22.1 (J)			
9/19/2018							
9/24/2018						1.1	5.7
9/25/2018							
9/26/2018							
10/1/2018					25		
10/2/2018							
2/25/2019		143					
2/26/2019	20.9 (J)		94.4	15.1 (J)			
3/26/2019							5.6
3/27/2019						1.5	
3/28/2019							
3/29/2019					23.5 (J)		
4/1/2019							
4/2/2019							
4/3/2019							
6/12/2019	26.6			24.2			
6/13/2019		146	127				
9/24/2019					26.4		
9/25/2019							
9/26/2019							
10/8/2019		115					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	27.8		128			2.4	4.9
10/10/2019				18			
3/17/2020		66.8					
3/18/2020	34.5		149	76.6			
3/19/2020					27.4		
3/24/2020							4.8
3/25/2020						2.7	
9/22/2020	40.5			21.8			
9/23/2020		103	144		26.3		
9/24/2020						3.7	4.4
9/25/2020							
3/1/2021	54.1			69.5			
3/2/2021			145				
3/3/2021		105			25.6		
3/4/2021						8.2	4.6
8/18/2021	45.8	74.5	159	56.2			
8/19/2021							
8/20/2021							
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 10/29/2021 4:04 PM View: PLs Interwell
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-3R	GWA-2 (bg)	GWC-1R
6/1/2016									
6/2/2016									
6/6/2016	6.4	6.8							
6/7/2016			2.8	1.9	4.5				
7/25/2016									
7/26/2016									
7/27/2016	6.2	6.7		1.9	4.5				
7/28/2016			2.6						
8/30/2016						5.2			
8/31/2016							6.7	4	7.6
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	6.1				4.5				
9/19/2016		7	2.4	1.9					
11/1/2016									
11/2/2016				2.6					
11/3/2016	7.4	7.5	2.9		5.4				
11/4/2016									
11/14/2016						6.4			
11/28/2016								4.2	
11/29/2016									5.8
11/30/2016							7.8		
12/1/2016									
12/15/2016									
1/10/2017									
1/11/2017	6.1	6.5			4.7				
1/12/2017									
1/13/2017			2.5	2.3					
1/16/2017									
2/21/2017									
2/22/2017								3.7	
2/23/2017							6.5		6.2
2/24/2017						5.5			
3/1/2017	6	6.9							
3/2/2017					4.8				
3/3/2017									
3/6/2017			2.1	1.9					
3/7/2017									
3/8/2017									
4/26/2017	6.5	7	2.1	2					
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017					4.6				
5/8/2017						5.8		4.2	
5/9/2017							7.2		16
5/10/2017									
5/26/2017									
6/27/2017									
6/28/2017	6.4	7							

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-3R	GWA-2 (bg)	GWC-1R
6/29/2017			2.8	2.6	4.5				
6/30/2017									
7/11/2017						5.8			
7/17/2017								3.8	
7/18/2017							7.7		18
10/3/2017			2.2						
10/4/2017	6.8			2.6	4.7				
10/5/2017		7							
10/10/2017						5.9			
10/11/2017									
10/12/2017									
10/16/2017								4.2	
10/17/2017									31
10/18/2017							6.5		
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								4.3	
2/20/2018									
2/21/2018							6.7		27
4/2/2018						4.8			
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				
6/28/2018									
8/6/2018								3.8	
8/7/2018							6.3		35.4
8/8/2018									
9/19/2018						4			
9/24/2018									
9/25/2018	7.8	7.9	2.2	3.6	5.6				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								4.1	
2/26/2019							5.7		20
3/26/2019									
3/27/2019						4.3			
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			2.5		4.8				
4/3/2019	6.3	6.9		3.1					
6/12/2019								4.7	
6/13/2019							5		16.4
9/24/2019			3.1						
9/25/2019				2.8	5.7				
9/26/2019	7.1	7							
10/8/2019						4.4		5.1	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016							
6/2/2016							
6/6/2016							
6/7/2016							
7/25/2016							
7/26/2016							
7/27/2016							
7/28/2016							
8/30/2016							
8/31/2016	6.3						
9/1/2016		4.4	6.6	190			
9/13/2016							
9/14/2016					1.1		
9/15/2016							
9/16/2016							
9/19/2016							
11/1/2016							
11/2/2016							
11/3/2016							
11/4/2016					1.4		
11/14/2016							
11/28/2016	6.7						
11/29/2016		4.8					
11/30/2016				48			
12/1/2016			6				
12/15/2016					2.9		
1/10/2017							
1/11/2017							
1/12/2017							
1/13/2017							
1/16/2017					0.98		
2/21/2017							
2/22/2017	5.7						
2/23/2017		4.4					
2/24/2017			3.4	130			
3/1/2017							
3/2/2017							
3/3/2017					1.1		
3/6/2017							
3/7/2017							
3/8/2017							
4/26/2017							
4/27/2017							
4/28/2017					0.91		
5/1/2017							
5/2/2017							
5/8/2017							
5/9/2017							
5/10/2017	7.1	3.9	4.5	71			
5/26/2017					0.93		
6/27/2017							
6/28/2017					1		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/29/2017							
6/30/2017							
7/11/2017							
7/17/2017			3.2				
7/18/2017	6	4		46			
10/3/2017					1.2		
10/4/2017							
10/5/2017							
10/10/2017							
10/11/2017						2.4	
10/12/2017							3.8
10/16/2017			9				
10/17/2017	6.1			50			
10/18/2017		4.1					
11/20/2017						1.8	4.4
1/10/2018							4.6
1/11/2018						1.6	
2/19/2018		4.4					4.6
2/20/2018	5.8			53.1		2	
2/21/2018			5.6				
4/2/2018							
4/3/2018						3.3	5.9
6/5/2018							
6/6/2018							
6/7/2018					1		
6/8/2018							
6/11/2018							
6/28/2018						2.1	5
8/6/2018		3.9					
8/7/2018			4.7			1.2	4.3
8/8/2018	4.7			69.3			
9/19/2018							
9/24/2018						1.3	4.9
9/25/2018							
9/26/2018							
10/1/2018					1.1		
10/2/2018							
2/25/2019		4.4					
2/26/2019	5.7		4.2	42.2			
3/26/2019							4.4
3/27/2019						1.4	
3/28/2019							
3/29/2019					1.2		
4/1/2019							
4/2/2019							
4/3/2019							
6/12/2019	9.1			69.5			
6/13/2019		6.2	5.5				
9/24/2019					0.95 (J)		
9/25/2019							
9/26/2019							
10/8/2019		4.9					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	9.8		4.5			2.1	5.1
10/10/2019				42.8			
3/17/2020		4.4					
3/18/2020	11.7		3.8	233			
3/19/2020					0.97 (J)		
3/24/2020							4.7
3/25/2020						1.9	
9/22/2020	24.7			60.2			
9/23/2020		4.7	3		0.88 (J)		
9/24/2020						2.7	5
9/25/2020							
3/1/2021	49.6			194			
3/2/2021			2.9				
3/3/2021		5			0.86 (J)		
3/4/2021						4.9	4.9
8/18/2021	26.2	5.4	2.3	150			
8/19/2021							
8/20/2021							
8/26/2021						7.2	
8/27/2021					0.99 (J)		
9/1/2021							
9/3/2021							5.5

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5D (bg)
6/1/2016	12	5	4.2						
6/2/2016				1.3	1.9	8	6.6	5.8	20
6/6/2016									
6/7/2016									
7/25/2016	8.4		3.7	1.2					
7/26/2016		5.4			1.8	7.7	6.1	6.7	20
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016		2.9	5.2						
9/14/2016	8.6				1.8	7.5			19
9/15/2016							6.1	6	
9/16/2016									
9/19/2016				1.2					
11/1/2016	8.9	3.9		1.3				4.9	
11/2/2016						8.2	6.3		20
11/3/2016									
11/4/2016			5		2				
11/14/2016									
11/28/2016									
11/29/2016									
11/30/2016									
12/1/2016									
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					
2/21/2017				1.4					
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	9.3								
3/2/2017		4.6	7.4					4.4	
3/3/2017									
3/6/2017						8			
3/7/2017					2.1				20
3/8/2017							7		
4/26/2017	11			1.4			7	5.1	
4/27/2017		5.2	7.4						
4/28/2017									
5/1/2017						8.4			20
5/2/2017					2				
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		5.9	6.4		2.1				18
6/28/2017	12						5.4		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-3R	GWA-2 (bg)	GWC-1R
6/1/2016									
6/2/2016									
6/6/2016	1.8	1.2							
6/7/2016			5.2	<1	4.4				
7/25/2016									
7/26/2016									
7/27/2016	1.9	1.7		0.08 (J)	4.7				
7/28/2016			5.1						
8/30/2016						160			
8/31/2016							87	29	410
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	1.7				4.8				
9/19/2016		1.8	4.8	0.08 (J)					
11/1/2016									
11/2/2016				0.1 (J)					
11/3/2016	1.9	0.69 (J)	5		5.3				
11/4/2016									
11/14/2016						150			
11/28/2016								36	
11/29/2016									450
11/30/2016							76		
12/1/2016									
12/15/2016									
1/10/2017									
1/11/2017	1.7	<1			5.2				
1/12/2017									
1/13/2017			4.3	<1					
1/16/2017									
2/21/2017									
2/22/2017								43	
2/23/2017							47		390
2/24/2017						120			
3/1/2017	<1	1.8							
3/2/2017					5				
3/3/2017									
3/6/2017			4.5	<1					
3/7/2017									
3/8/2017									
4/26/2017	1.9	1.6	4.9	<1					
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017					5				
5/8/2017						120		60	
5/9/2017							41		280
5/10/2017									
5/26/2017									
6/27/2017									
6/28/2017	<1	<1							

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-3R	GWA-2 (bg)	GWC-1R
6/29/2017			5.5	<1	5.2				
6/30/2017									
7/11/2017						110			
7/17/2017								63	
7/18/2017							44		200
10/3/2017			5.8						
10/4/2017	1.7			<1	5.3				
10/5/2017		1.6							
10/10/2017						93			
10/11/2017									
10/12/2017									
10/16/2017								62	
10/17/2017									180
10/18/2017							53		
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								64.6	
2/20/2018									
2/21/2018							46.7		146
4/2/2018						88.8			
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				
6/28/2018									
8/6/2018								42.1	
8/7/2018							38.8		100
8/8/2018									
9/19/2018						75			
9/24/2018									
9/25/2018	1.5	1	7	0.13 (J)	6.1				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								42.1	
2/26/2019							49.3		118
3/26/2019									
3/27/2019						65.9			
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			3.8		5.1				
4/3/2019	1.3	0.82 (J)		0.12 (J)					
6/12/2019								83.4	
6/13/2019							77.1		163
9/24/2019			1						
9/25/2019				<1	5.5				
9/26/2019	1	0.64 (J)							
10/8/2019						52.3		128	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016							
6/2/2016							
6/6/2016							
6/7/2016							
7/25/2016							
7/26/2016							
7/27/2016							
7/28/2016							
8/30/2016							
8/31/2016	140						
9/1/2016		360	990	150			
9/13/2016							
9/14/2016					9.4		
9/15/2016							
9/16/2016							
9/19/2016							
11/1/2016							
11/2/2016							
11/3/2016							
11/4/2016					13		
11/14/2016							
11/28/2016	120						
11/29/2016		320					
11/30/2016				50			
12/1/2016			1100				
12/15/2016					1.8		
1/10/2017							
1/11/2017							
1/12/2017							
1/13/2017							
1/16/2017					11		
2/21/2017							
2/22/2017	100						
2/23/2017		380					
2/24/2017			850	110			
3/1/2017							
3/2/2017							
3/3/2017					8.8		
3/6/2017							
3/7/2017							
3/8/2017							
4/26/2017							
4/27/2017							
4/28/2017					10		
5/1/2017							
5/2/2017							
5/8/2017							
5/9/2017							
5/10/2017	80	660	1000	70			
5/26/2017					12		
6/27/2017							
6/28/2017					11		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/29/2017							
6/30/2017							
7/11/2017							
7/17/2017			830				
7/18/2017	57	880		50			
10/3/2017					7.9		
10/4/2017							
10/5/2017							
10/10/2017							
10/11/2017						20	
10/12/2017							17
10/16/2017			720				
10/17/2017	59			58			
10/18/2017		760					
11/20/2017						24	71
1/10/2018							66
1/11/2018						23	
2/19/2018		718					57.2
2/20/2018	55.9			64.6		20.6	
2/21/2018			533				
4/2/2018							
4/3/2018						24.5	49.4
6/5/2018							
6/6/2018							
6/7/2018					8.8		
6/8/2018							
6/11/2018							
6/28/2018						22	43.8
8/6/2018		797					
8/7/2018			784			20.7	40.5
8/8/2018	81.1			79.5			
9/19/2018							
9/24/2018						21.2	39.7
9/25/2018							
9/26/2018							
10/1/2018					9.1		
10/2/2018							
2/25/2019		763					
2/26/2019	129		742	55.8			
3/26/2019							34.3
3/27/2019						17.7	
3/28/2019							
3/29/2019					9		
4/1/2019							
4/2/2019							
4/3/2019							
6/12/2019	180			92.8			
6/13/2019		918	976				
9/24/2019					9.1		
9/25/2019							
9/26/2019							
10/8/2019		664					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	91.2		1180			15	27.9
10/10/2019				68.7			
3/17/2020		303					
3/18/2020	200		960	199			
3/19/2020					12.4		
3/24/2020							25.2
3/25/2020						14.3	
9/22/2020	216			72.1			
9/23/2020		518	992		11.8		
9/24/2020						11.7	22.9
9/25/2020							
3/1/2021	244			177			
3/2/2021			906				
3/3/2021		476			10.6		
3/4/2021						12	21.5
8/18/2021	223	345	946	118			
8/19/2021							
8/20/2021							
8/26/2021						19.2	
8/27/2021					16.7		
9/1/2021							
9/3/2021							21.3

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-3R	GWA-2 (bg)	GWC-1R
6/1/2016									
6/2/2016									
6/6/2016	58	120							
6/7/2016			60	38	28				
7/25/2016									
7/26/2016									
7/27/2016	35	94		74	74				
7/28/2016			81						
8/30/2016						319			
8/31/2016							216	209	616
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	35				67				
9/19/2016		92	68	45					
11/1/2016									
11/2/2016				53					
11/3/2016	48	104	61		41				
11/4/2016									
11/14/2016						280			
11/28/2016								102	
11/29/2016									594
11/30/2016							177 (B)		
12/1/2016									
12/15/2016									
1/10/2017									
1/11/2017	95	133			104				
1/12/2017									
1/13/2017			76	46					
1/16/2017									
2/21/2017									
2/22/2017								164	
2/23/2017							105		581
2/24/2017						162			
3/1/2017	79	119							
3/2/2017					77				
3/3/2017									
3/6/2017			167	164					
3/7/2017									
3/8/2017									
4/26/2017	36	162	50	34					
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017					142				
5/8/2017						194		145	
5/9/2017							77		410
5/10/2017									
5/26/2017									
6/27/2017									
6/28/2017	45	98							

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-3R	GWA-2 (bg)	GWC-1R
6/29/2017			94	68	53				
6/30/2017									
7/11/2017						193			
7/17/2017								185	
7/18/2017							89		322
10/3/2017			149						
10/4/2017	45			54	61				
10/5/2017		104							
10/10/2017						175			
10/11/2017									
10/12/2017									
10/16/2017								218	
10/17/2017									381
10/18/2017							166		
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								173	
2/20/2018									
2/21/2018							105		285
4/2/2018						192			
4/3/2018									
6/5/2018			109						
6/6/2018				79					
6/7/2018		68							
6/8/2018									
6/11/2018	74				70				
6/28/2018									
8/6/2018								158	
8/7/2018							99		242
8/8/2018									
9/19/2018						186			
9/24/2018									
9/25/2018	63	109	122	73	86				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								92	
2/26/2019							109		69
3/26/2019									
3/27/2019						170			
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			134		72				
4/3/2019	63	89		57					
6/12/2019								226	
6/13/2019							136		301
9/24/2019			157						
9/25/2019				75	81				
9/26/2019	72	126							
10/8/2019						172		276	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016							
6/2/2016							
6/6/2016							
6/7/2016							
7/25/2016							
7/26/2016							
7/27/2016							
7/28/2016							
8/30/2016							
8/31/2016	257						
9/1/2016		578	1400	553			
9/13/2016							
9/14/2016					152		
9/15/2016							
9/16/2016							
9/19/2016							
11/1/2016							
11/2/2016							
11/3/2016							
11/4/2016					148		
11/14/2016							
11/28/2016	177						
11/29/2016		455					
11/30/2016				247 (B)			
12/1/2016			1610 (B)				
12/15/2016					191		
1/10/2017							
1/11/2017							
1/12/2017							
1/13/2017							
1/16/2017					180		
2/21/2017							
2/22/2017	240						
2/23/2017		614					
2/24/2017			1200	414			
3/1/2017							
3/2/2017							
3/3/2017					156		
3/6/2017							
3/7/2017							
3/8/2017							
4/26/2017							
4/27/2017							
4/28/2017					130		
5/1/2017							
5/2/2017							
5/8/2017							
5/9/2017							
5/10/2017	149	955	1360	251			
5/26/2017					223		
6/27/2017							
6/28/2017					166		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/29/2017							
6/30/2017							
7/11/2017							
7/17/2017			1340				
7/18/2017	122	1270		179			
10/3/2017					153		
10/4/2017							
10/5/2017							
10/10/2017							
10/11/2017						68	
10/12/2017							74
10/16/2017			1080				
10/17/2017	214			256			
10/18/2017		1150					
11/20/2017						139	179
1/10/2018							140
1/11/2018						153	
2/19/2018		1070					119
2/20/2018	131			233		87	
2/21/2018			830				
4/2/2018							
4/3/2018						85	106
6/5/2018							
6/6/2018							
6/7/2018					146		
6/8/2018							
6/11/2018							
6/28/2018						88	112
8/6/2018		1260					
8/7/2018			1180			89	103
8/8/2018	166			292			
9/19/2018							
9/24/2018						82	107
9/25/2018							
9/26/2018							
10/1/2018					155		
10/2/2018							
2/25/2019		1160					
2/26/2019	293		1010	226			
3/26/2019							90
3/27/2019						75	
3/28/2019							
3/29/2019					150		
4/1/2019							
4/2/2019							
4/3/2019							
6/12/2019	391			298			
6/13/2019		1310	1410				
9/24/2019					146		
9/25/2019							
9/26/2019							
10/8/2019		1050					

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/29/2021 4:04 PM View: PLs Interwell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	372		1680			119	98
10/10/2019				247			
3/17/2020		588					
3/18/2020	351		1520	703			
3/19/2020					148		
3/24/2020							84
3/25/2020						158	
9/22/2020	394			217			
9/23/2020		820	1000		161		
9/24/2020						170	77
9/25/2020							
3/1/2021	516			666			
3/2/2021			980				
3/3/2021		942			138		
3/4/2021						168	57
8/18/2021	474	682	1660	630			
8/19/2021							
8/20/2021							
8/26/2021						249	
8/27/2021					150		
9/1/2021							
9/3/2021							88

FIGURE H.

Appendix III Trend Test Summary - Intrawell Exceedances - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/28/2021, 5:30 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
pH (S.U.)	GWC-5R	-0.09154	-109	-74	Yes	19	0	n/a	n/a	0.01	NP

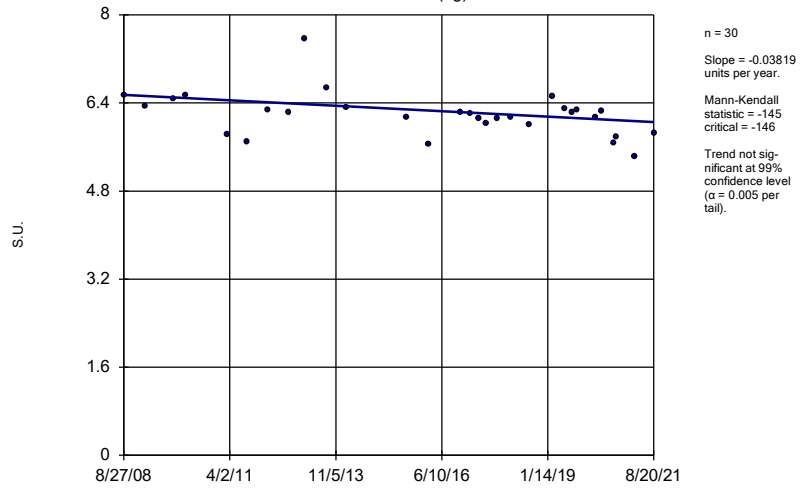
Appendix III Trend Test Summary - Intrawell Exceedances - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/28/2021, 5:30 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH (S.U.)	GWA-2 (bg)	-0.03819	-145	-146	No	30	0	n/a	n/a	0.01	NP
pH (S.U.)	GWC-5R	-0.09154	-109	-74	Yes	19	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

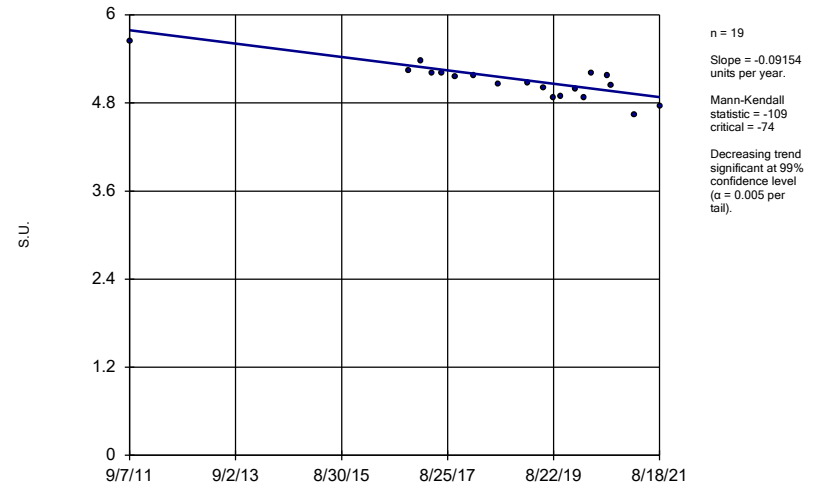
GWA-2 (bg)



Constituent: pH Analysis Run 10/28/2021 5:28 PM View: Trend Tests - Intra Well Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

GWC-5R



Constituent: pH Analysis Run 10/28/2021 5:28 PM View: Trend Tests - Intra Well Exceedances
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

FIGURE I.

Appendix III Trend Test Summary - Interwell Exceedances - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 4:11 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-40 (bg)	-0.01963	-52	-48	Yes	14	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
Calcium (mg/L)	GWA-2 (bg)	4.423	71	53	Yes	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-2R	7.598	63	53	Yes	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.12	74	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.07527	-79	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.7142	68	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.1058	-73	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	1.218	82	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.845	-69	-48	Yes	14	7.143	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-2.169	-74	-63	Yes	17	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-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)	YGWA-47 (bg)	-0.4824	-58	-48	Yes	14	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
Sulfate (mg/L)	GWA-2 (bg)	23.3	74	53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	1.025	88	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-3.378	-51	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.4885	74	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-10.75	-65	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-21.6	-78	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-3.658	-104	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.09609	85	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-2R	64.22	57	53	Yes	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-40 (bg)	-16.17	-53	-48	Yes	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-47 (bg)	-15.69	-67	-48	Yes	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-5D (bg)	-17	-86	-63	Yes	17	0	n/a	n/a	0.01	NP

Appendix III Trend Test Summary - Interwell Exceedances - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 4:11 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GWA-2 (bg)	0	11	53	No	15	60	n/a	n/a	0.01	NP
Boron (mg/L)	GWC-4R	0.1339	13	53	No	15	0	n/a	n/a	0.01	NP
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-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-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-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-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-39 (bg)	0.004253	27	48	No	14	7.143	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)	YGWA-40 (bg)	-0.01963	-52	-48	Yes	14	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-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
Calcium (mg/L)	GWA-2 (bg)	4.423	71	53	Yes	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-1R	3.808	9	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-2R	7.598	63	53	Yes	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-4R	3.444	29	53	No	15	6.667	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-5R	7.109	43	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-6R	4.534	12	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-14S (bg)	-0.01957	-45	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.12	74	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18I (bg)	0.02122	10	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.07527	-79	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.7142	68	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.1058	-73	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-20S (bg)	0.06963	56	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	1.218	82	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-2I (bg)	0.3107	22	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0	0	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	0.6588	26	48	No	14	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.5989	46	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.5549	41	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-40 (bg)	-0.8022	-47	-48	No	14	7.143	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.845	-69	-48	Yes	14	7.143	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-4I (bg)	0.2132	21	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-2.169	-74	-63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.07389	58	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
Chloride (mg/L)	GWC-2R	1.955	50	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-4R	3.199	11	53	No	15	0	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-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-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-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

Appendix III Trend Test Summary - Interwell Exceedances - All Results Page 2

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 4:11 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
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-39 (bg)	0.3996	26	48	No	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)	YGWA-40 (bg)	0.2116	37	48	No	14	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-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
Sulfate (mg/L)	GWA-2 (bg)	23.3	74	53	Yes	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-1R	7.337	1	53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-2R	26.07	45	53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-5R	-5.034	-3	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-6R	-3.022	-1	-53	No	15	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-14S (bg)	0.08247	21	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0.1098	59	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.1768	-60	-63	No	17	23.53	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18S (bg)	-0.1647	-50	-63	No	17	11.76	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	1.025	88	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1I (bg)	-0.2433	-23	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	30	63	No	17	64.71	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.1968	-22	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	0.4455	27	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.07072	-31	-63	No	17	11.76	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-3.378	-51	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.4885	74	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	1.181	61	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-10.75	-65	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-21.6	-78	-48	Yes	14	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-4I (bg)	0.1495	44	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-3.658	-104	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.09609	85	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-2 (bg)	25.14	48	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-1R	10.15	3	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-2R	64.22	57	53	Yes	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-4R	11.94	12	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-5R	-27.21	-9	-53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-6R	21.01	9	53	No	15	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-14S (bg)	1.46	17	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-17S (bg)	5.4	32	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-18I (bg)	-1.272	-13	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-18S (bg)	0.4413	9	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-1D (bg)	0.915	10	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-1I (bg)	-3.586	-32	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-20S (bg)	3.135	31	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-21I (bg)	13.94	56	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-2I (bg)	-2.761	-35	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-30I (bg)	1.885	20	63	No	17	11.76	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-39 (bg)	25.58	41	48	No	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-3D (bg)	1.346	10	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-3I (bg)	1.702	14	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-40 (bg)	-16.17	-53	-48	Yes	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-47 (bg)	-15.69	-67	-48	Yes	14	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-4I (bg)	0.3992	4	63	No	17	0	n/a	n/a	0.01	NP

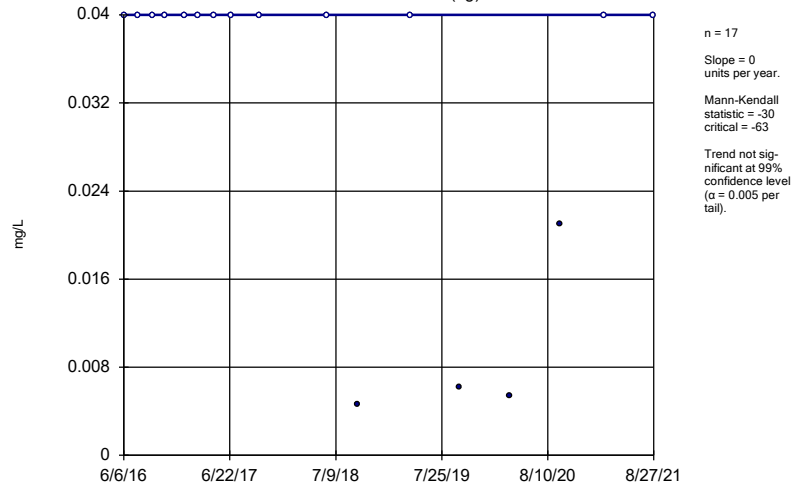
Appendix III Trend Test Summary - Interwell Exceedances - All Results Page 3

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 4:11 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
TDS (mg/L)	YGWA-5D (bg)	-17	-86	-63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-5I (bg)	0	-1	-63	No	17	0	n/a	n/a	0.01	NP

Sen's Slope Estimator

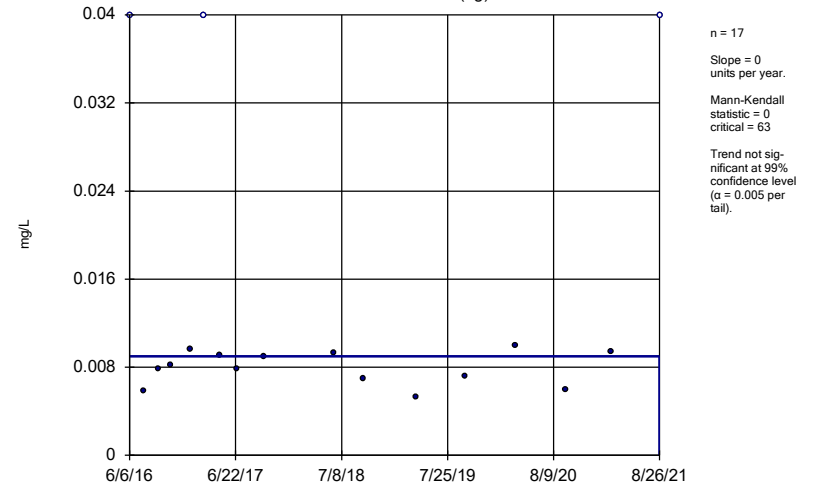
YGWA-18I (bg)



Constituent: Boron Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

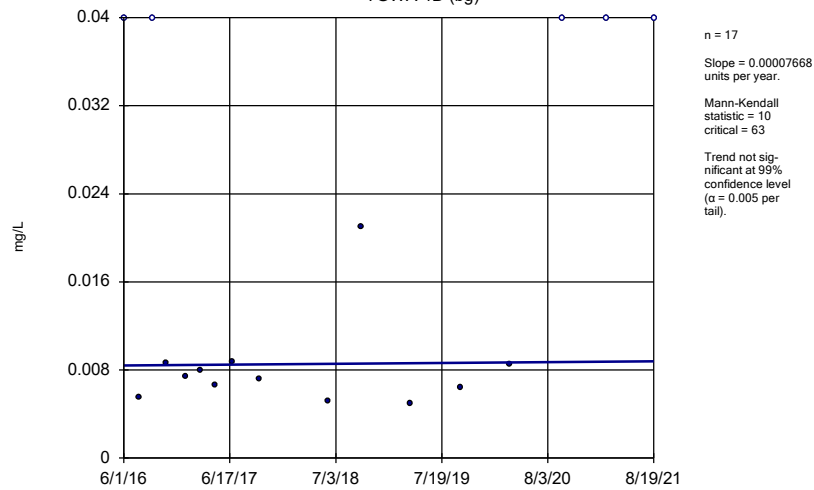
YGWA-18S (bg)



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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

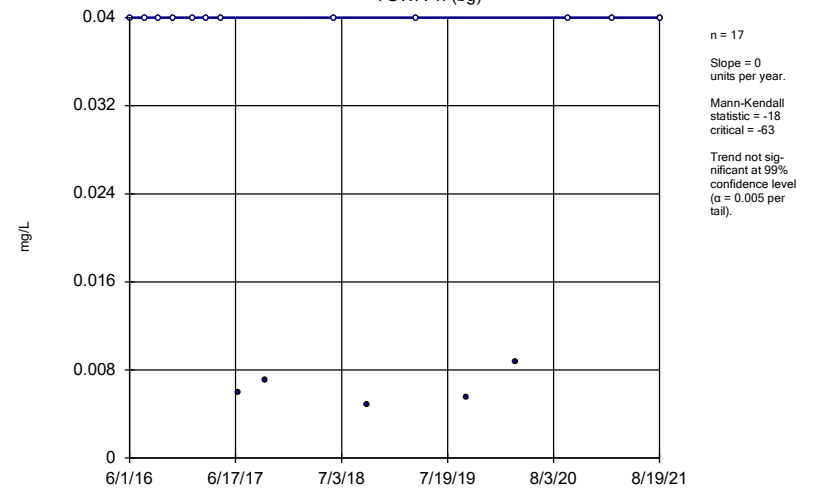
YGWA-1D (bg)



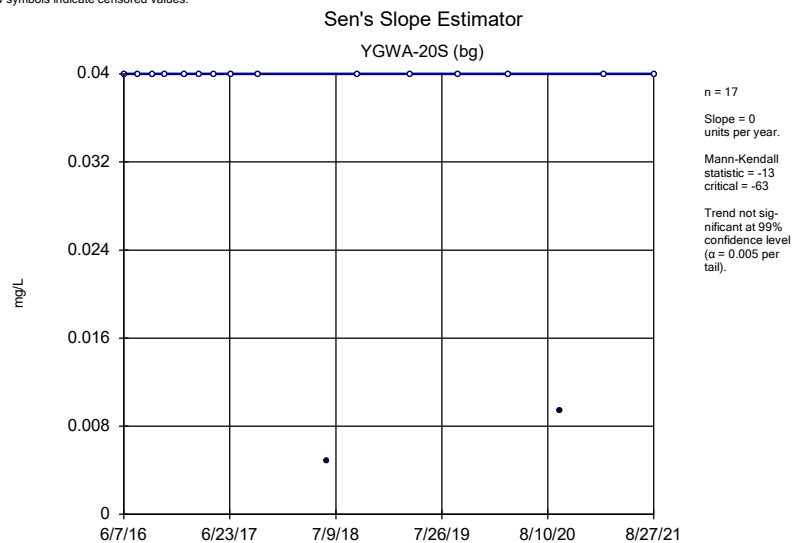
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

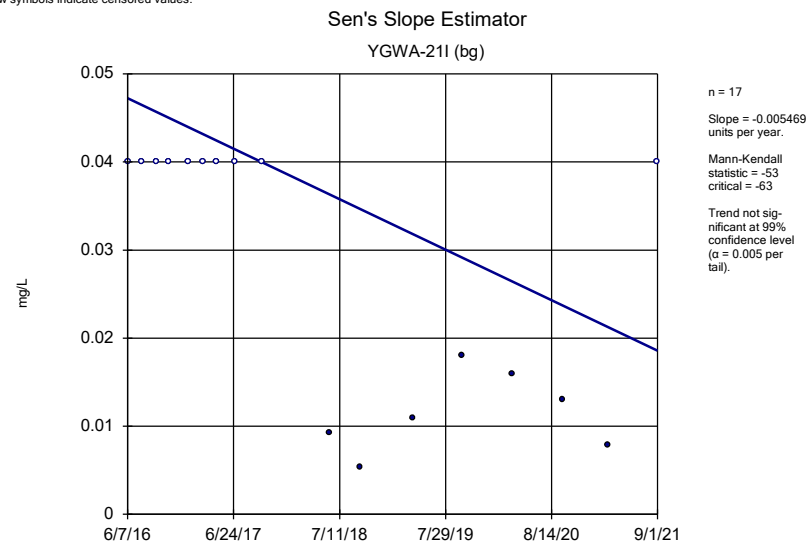
YGWA-1I (bg)



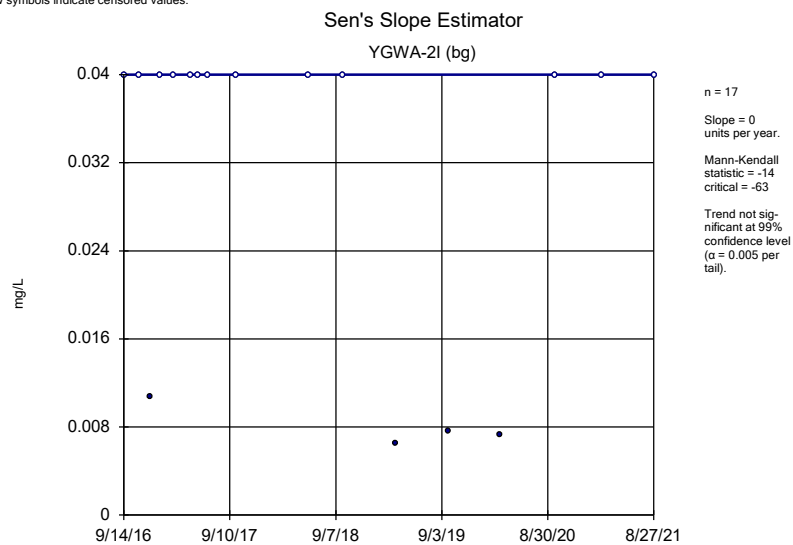
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



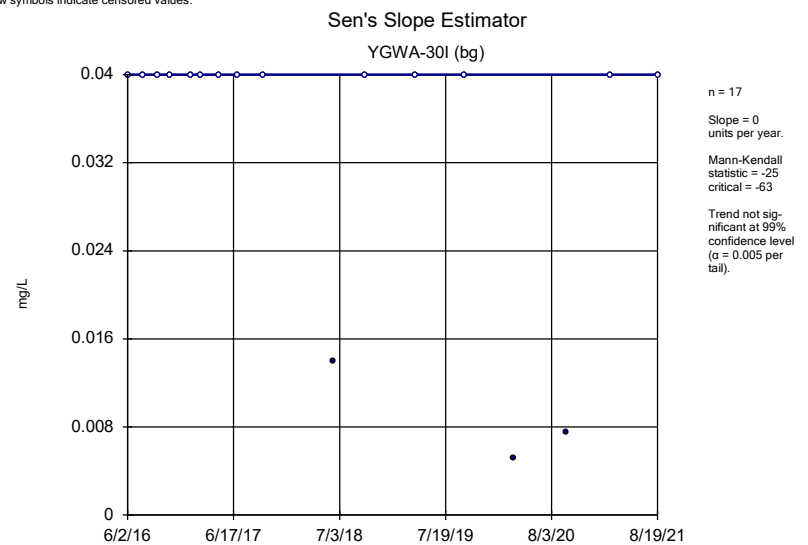
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill



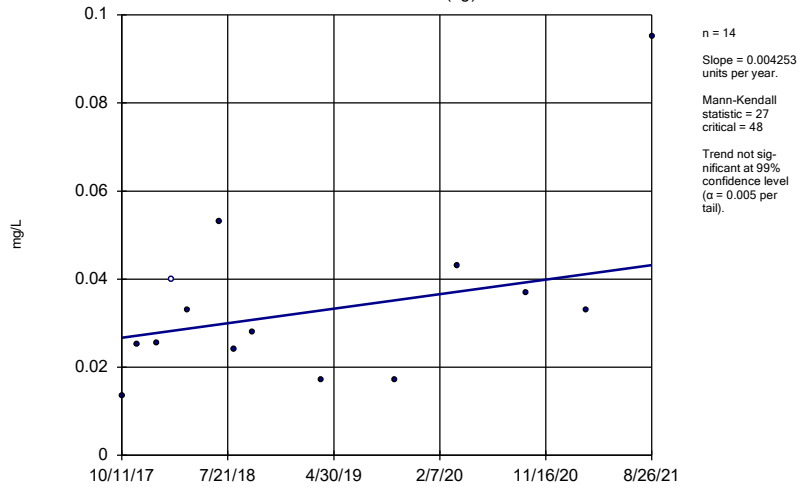
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

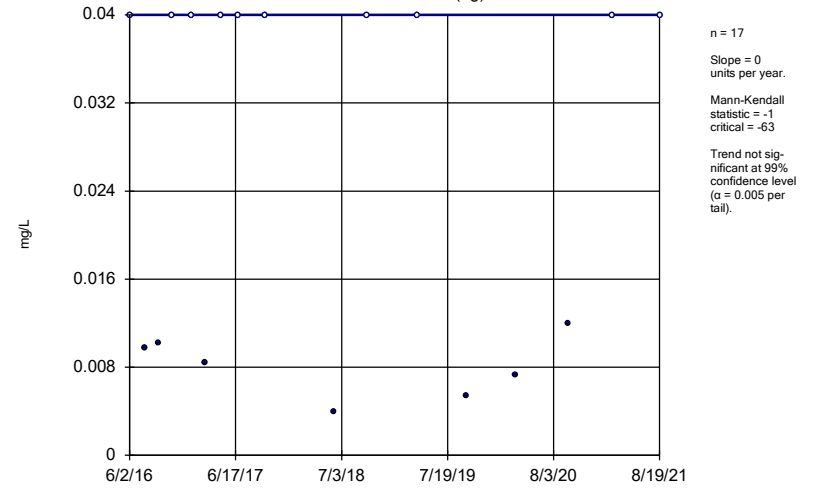
YGWA-39 (bg)



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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

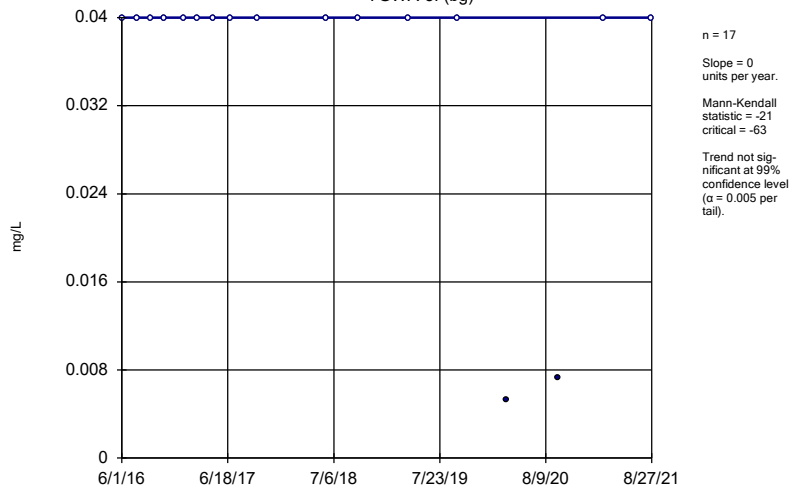
YGWA-3D (bg)



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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

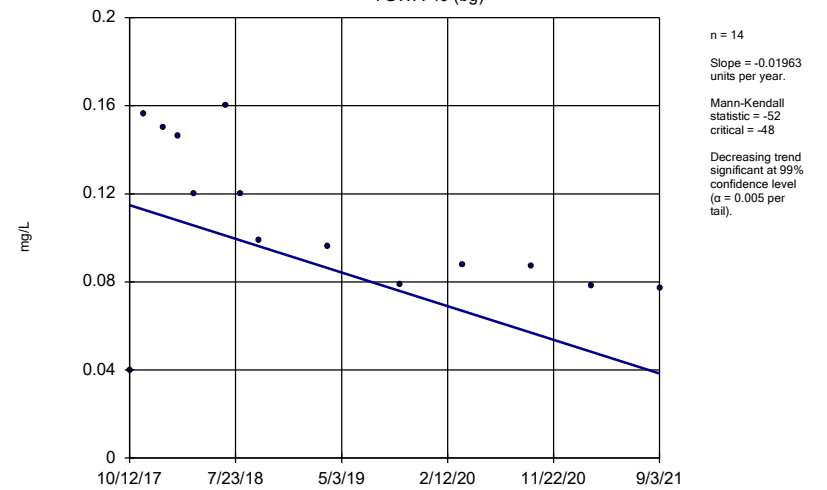
YGWA-3I (bg)



Constituent: Boron Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

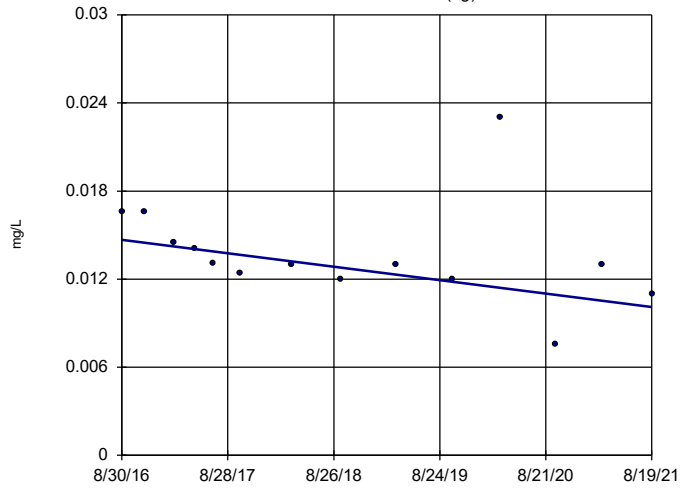
YGWA-40 (bg)



Constituent: Boron Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-47 (bg)



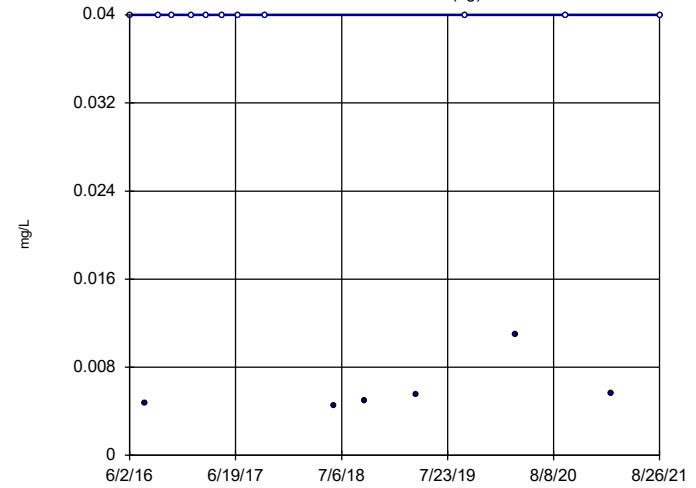
n = 14
 Slope = -0.000923 units per year.
 Mann-Kendall statistic = -50
 critical = -48
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



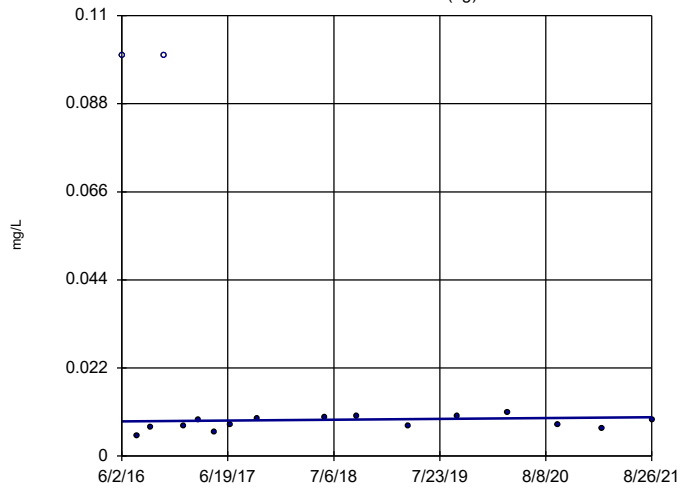
n = 17
 Slope = 0 units per year.
 Mann-Kendall statistic = -11
 critical = -63
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



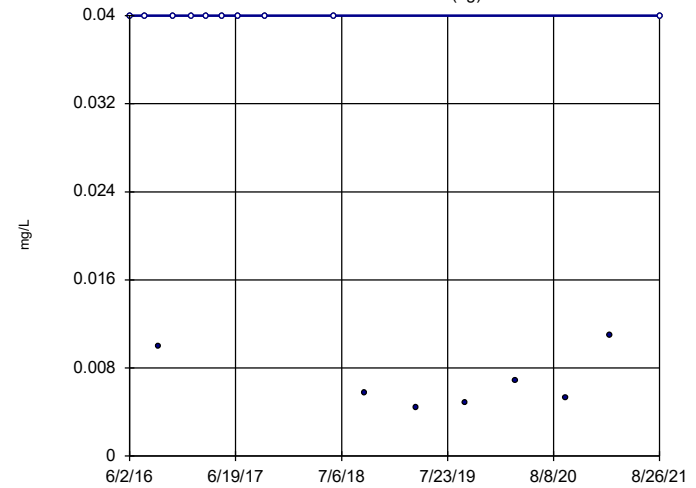
n = 17
 Slope = 0.0001974 units per year.
 Mann-Kendall statistic = 14
 critical = 63
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Hollow symbols indicate censored values.

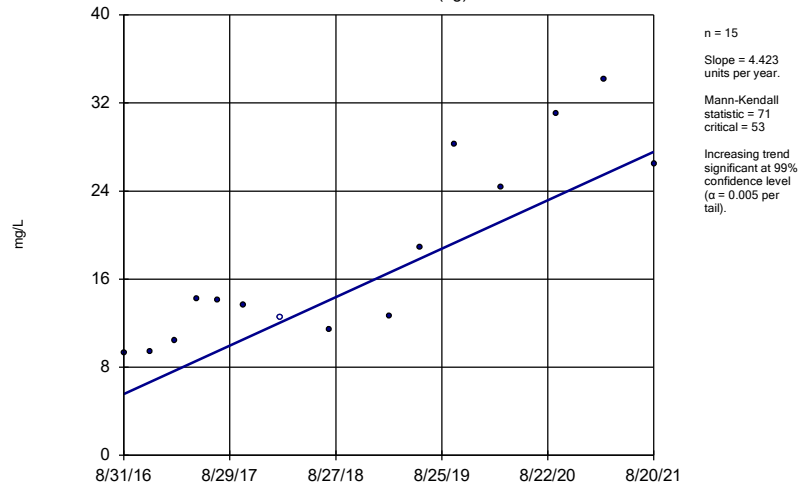
Sen's Slope Estimator

YGWA-5I (bg)



Sen's Slope Estimator

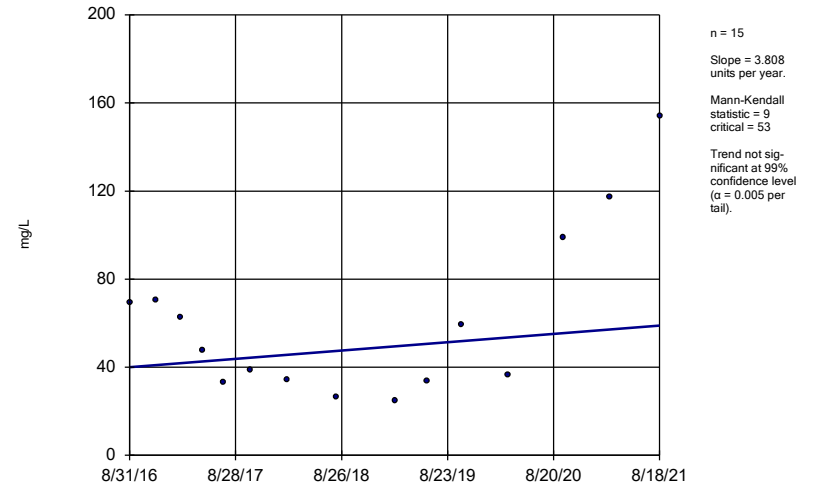
GWA-2 (bg)



Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

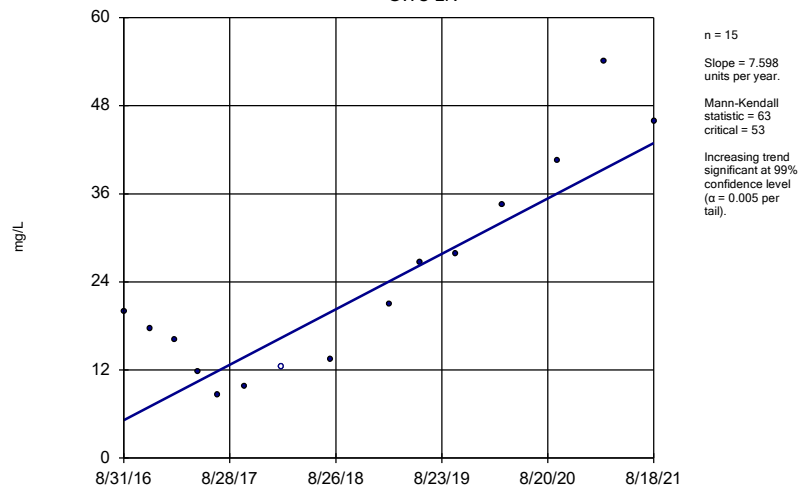
GWC-1R



Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

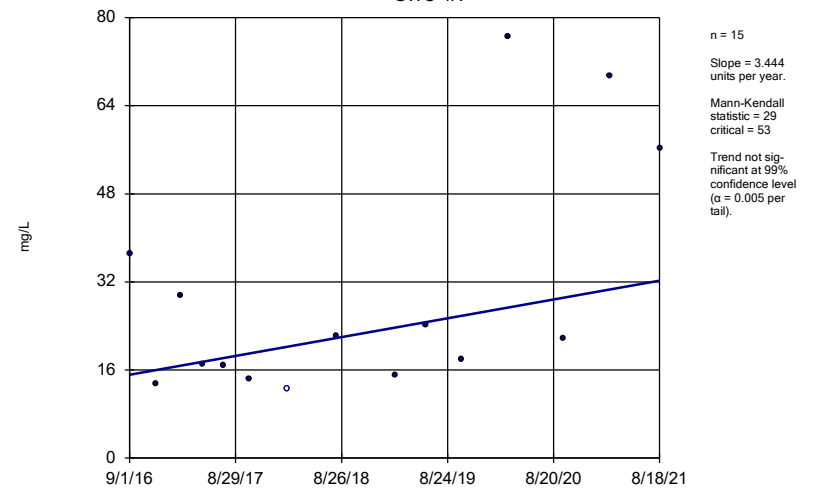
GWC-2R



Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

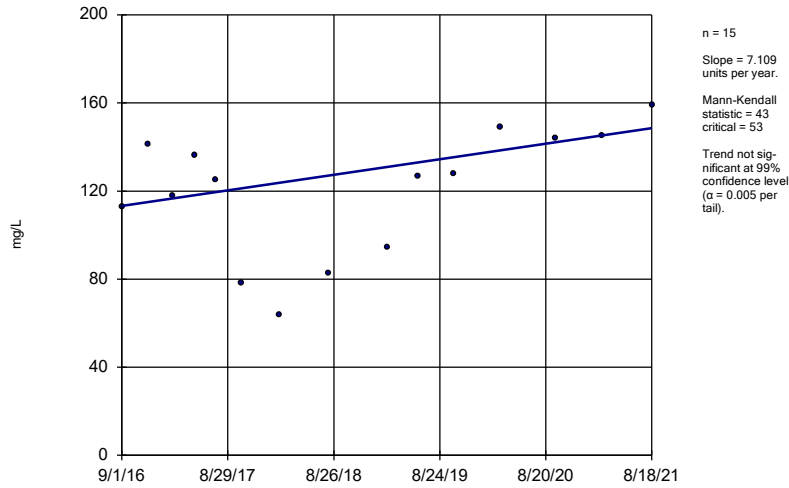
Sen's Slope Estimator

GWC-4R



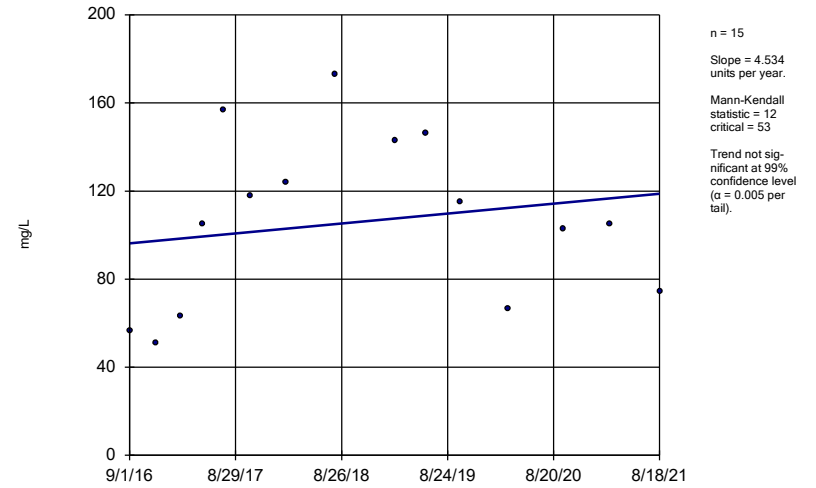
Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator GWC-5R



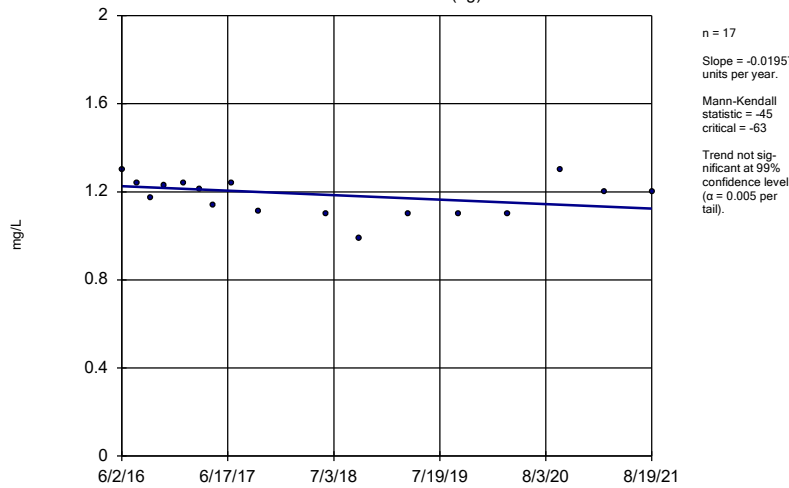
Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator GWC-6R



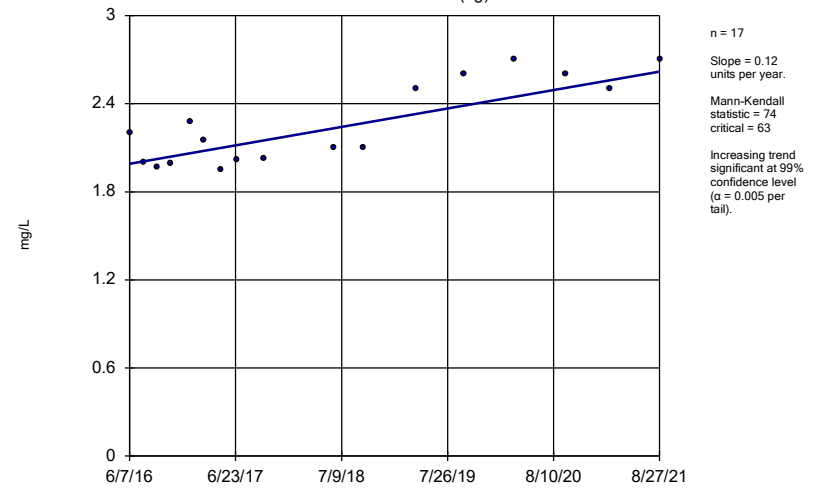
Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator YGWA-14S (bg)



Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

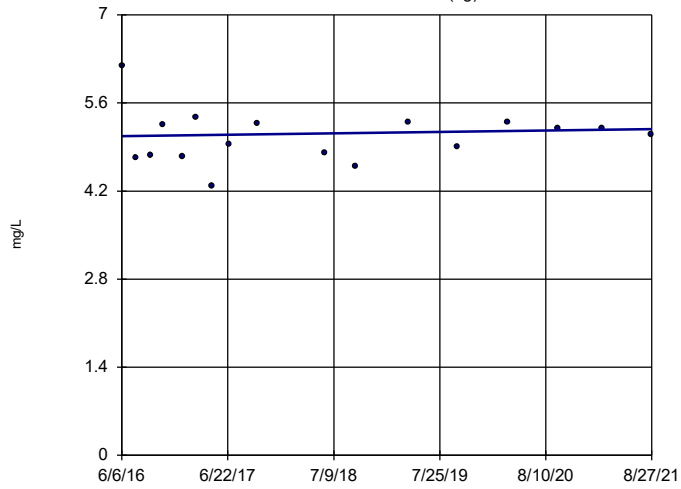
Sen's Slope Estimator YGWA-17S (bg)



Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-18I (bg)

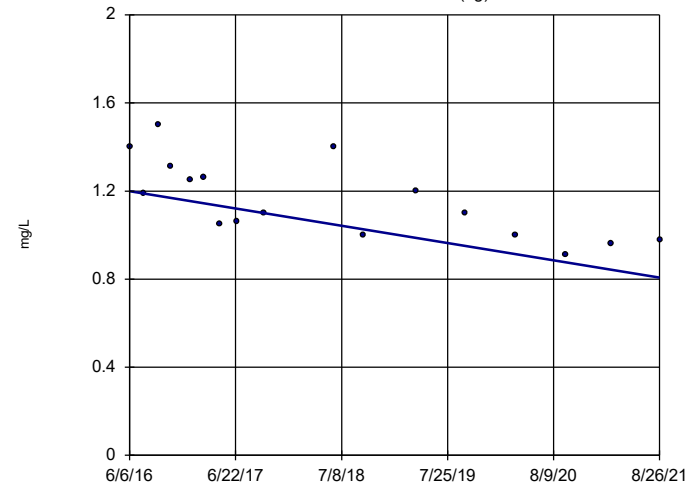


n = 17
 Slope = 0.02122
 units per year.
 Mann-Kendall
 statistic = 10
 critical = 63
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-18S (bg)

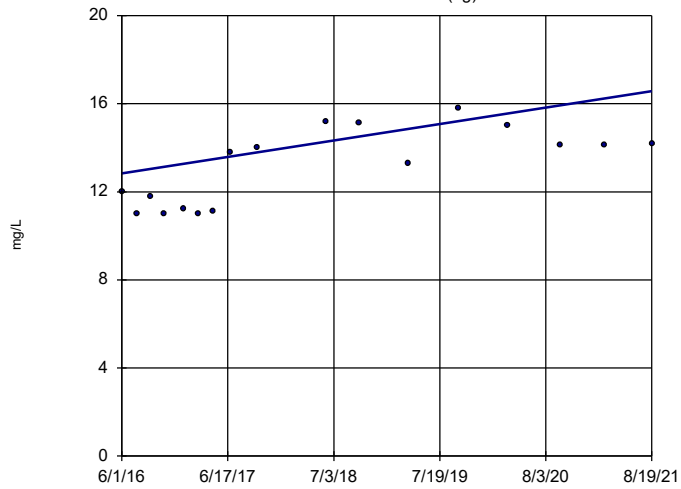


n = 17
 Slope = -0.07527
 units per year.
 Mann-Kendall
 statistic = -79
 critical = -63
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-1D (bg)

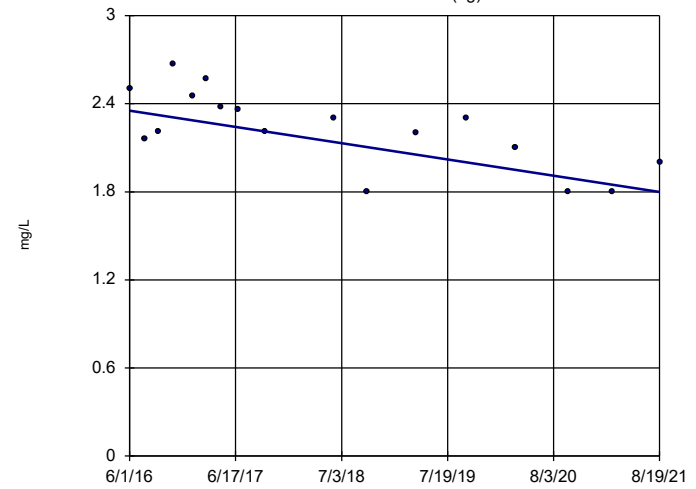


n = 17
 Slope = 0.7142
 units per year.
 Mann-Kendall
 statistic = 68
 critical = 63
 Increasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-1I (bg)

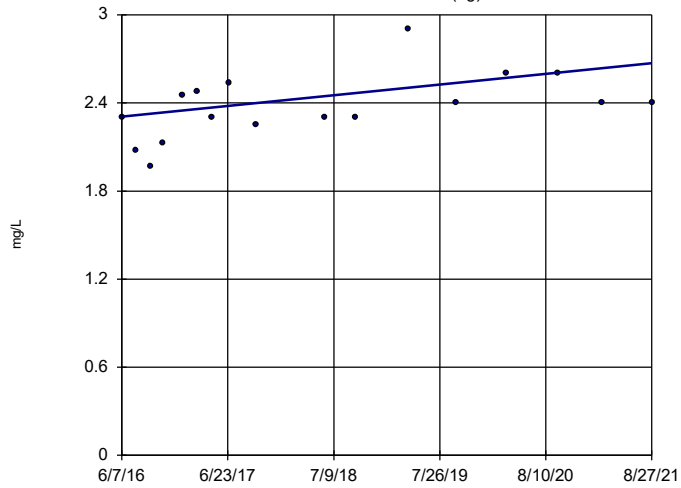


n = 17
 Slope = -0.1058
 units per year.
 Mann-Kendall
 statistic = -73
 critical = -63
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-20S (bg)

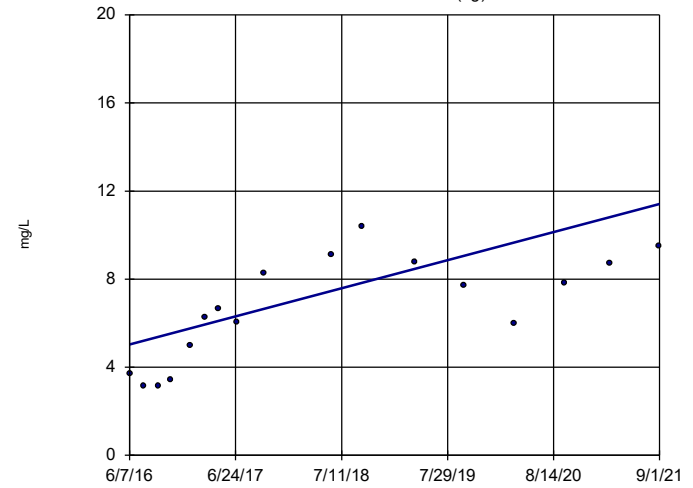


n = 17
 Slope = 0.06963 units per year.
 Mann-Kendall statistic = 56
 critical = 63
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-211 (bg)

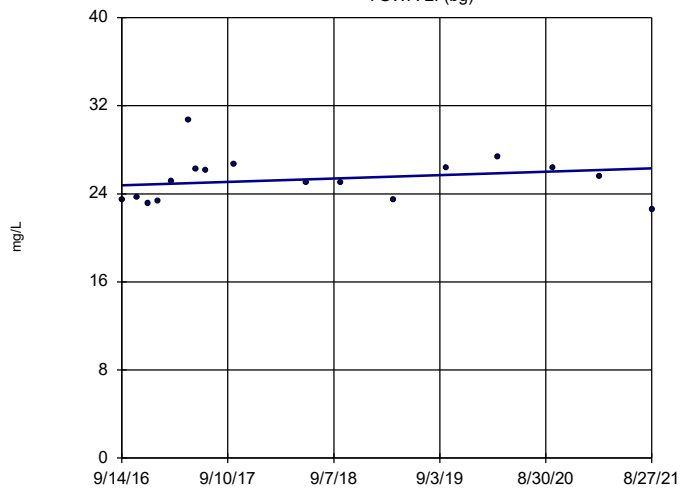


n = 17
 Slope = 1.218 units per year.
 Mann-Kendall statistic = 82
 critical = 63
 Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-21 (bg)

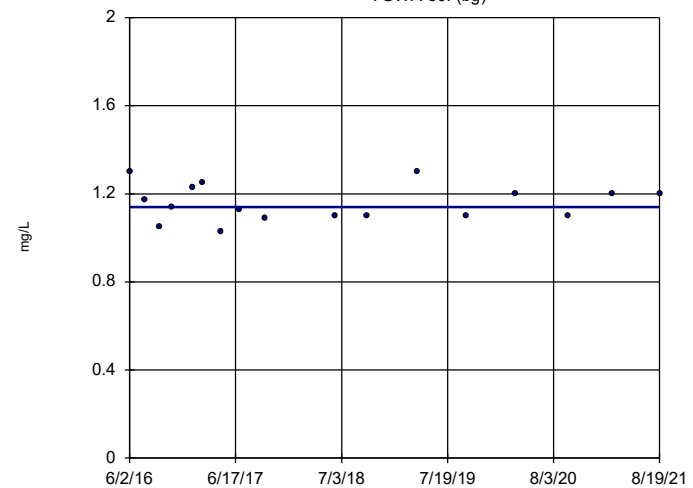


n = 17
 Slope = 0.3107 units per year.
 Mann-Kendall statistic = 22
 critical = 63
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-301 (bg)

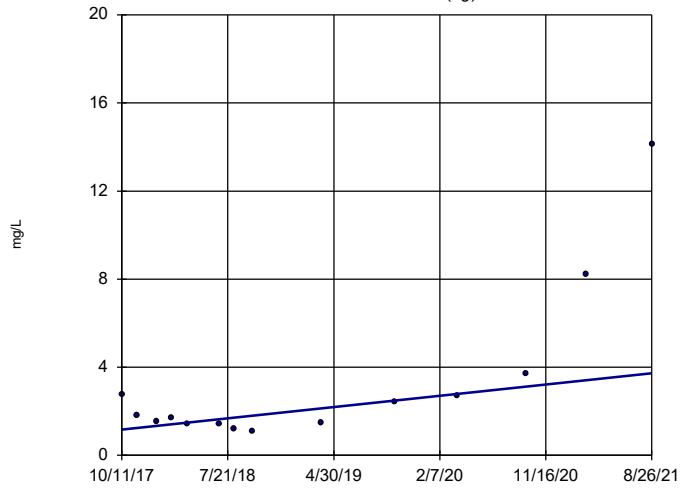


n = 17
 Slope = 0 units per year.
 Mann-Kendall statistic = 0
 critical = 63
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-39 (bg)

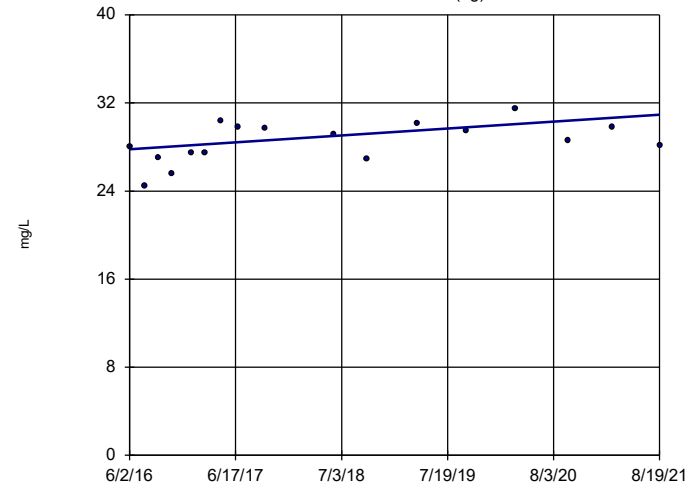


n = 14
 Slope = 0.6588
 units per year.
 Mann-Kendall
 statistic = 26
 critical = 48
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-3D (bg)

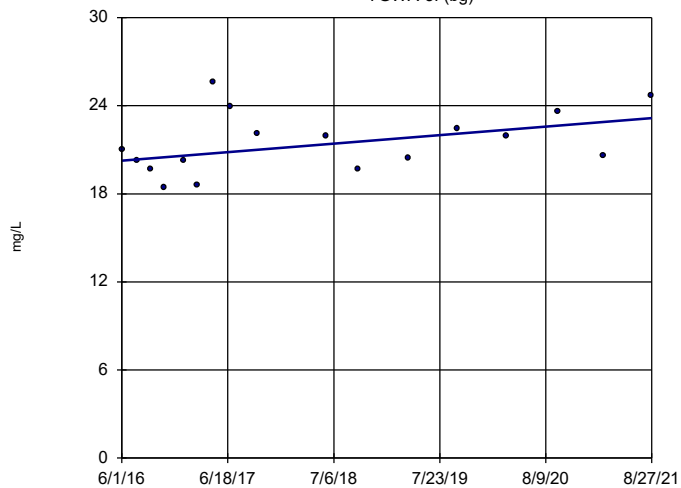


n = 17
 Slope = 0.5989
 units per year.
 Mann-Kendall
 statistic = 46
 critical = 63
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-3I (bg)

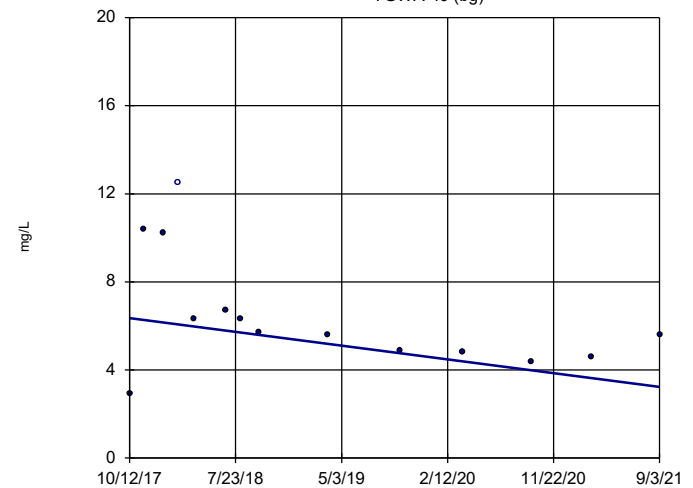


n = 17
 Slope = 0.5549
 units per year.
 Mann-Kendall
 statistic = 41
 critical = 63
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

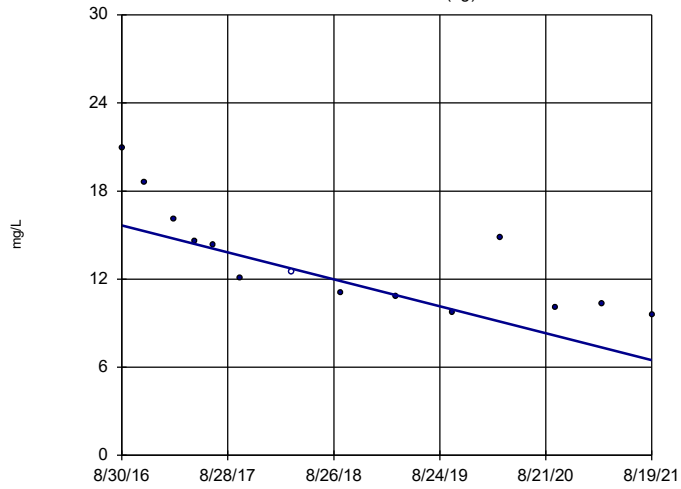
YGWA-40 (bg)



n = 14
 Slope = -0.8022
 units per year.
 Mann-Kendall
 statistic = -47
 critical = -48
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

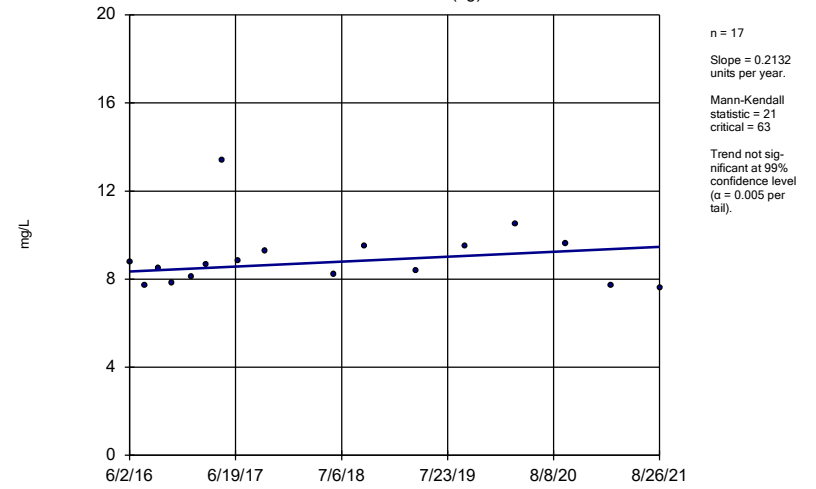
Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
YGWA-47 (bg)



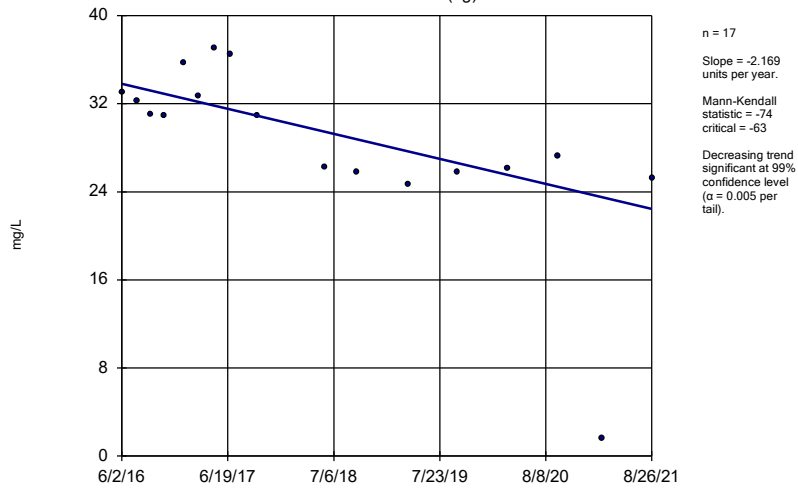
Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
YGWA-4I (bg)



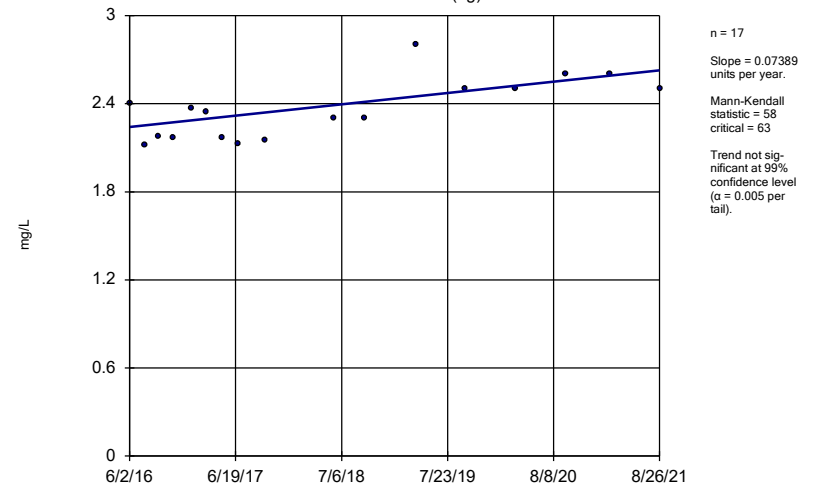
Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
YGWA-5D (bg)



Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

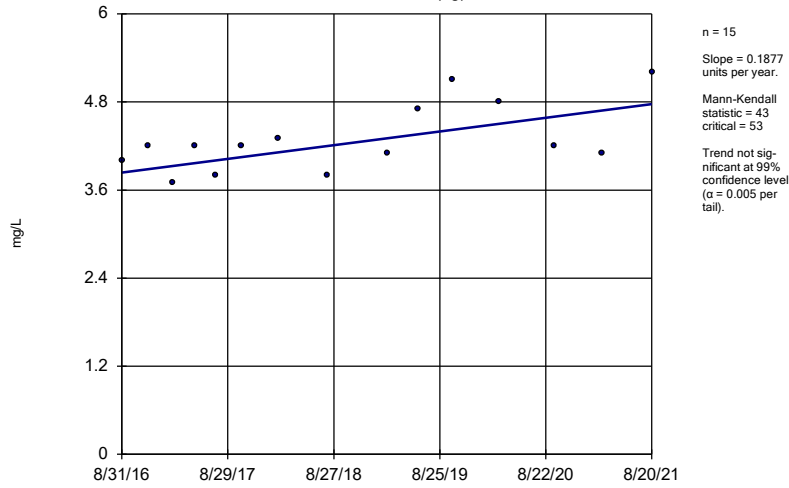
Sen's Slope Estimator
YGWA-5I (bg)



Constituent: Calcium Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

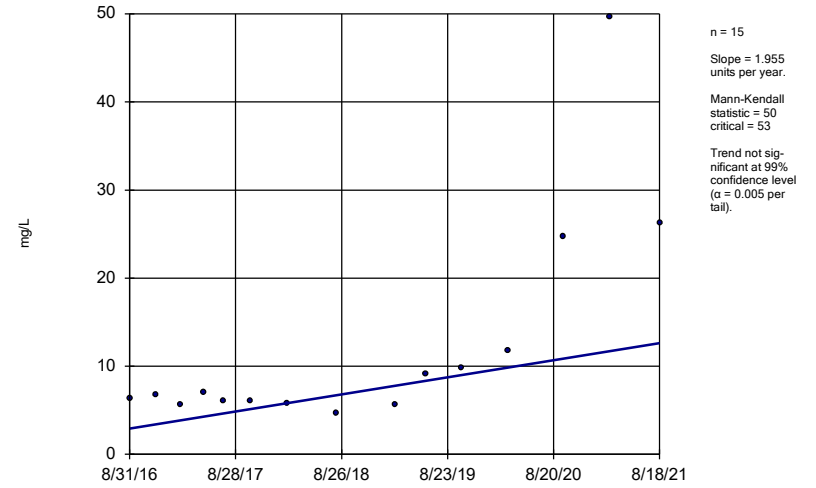
GWA-2 (bg)



Constituent: Chloride Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

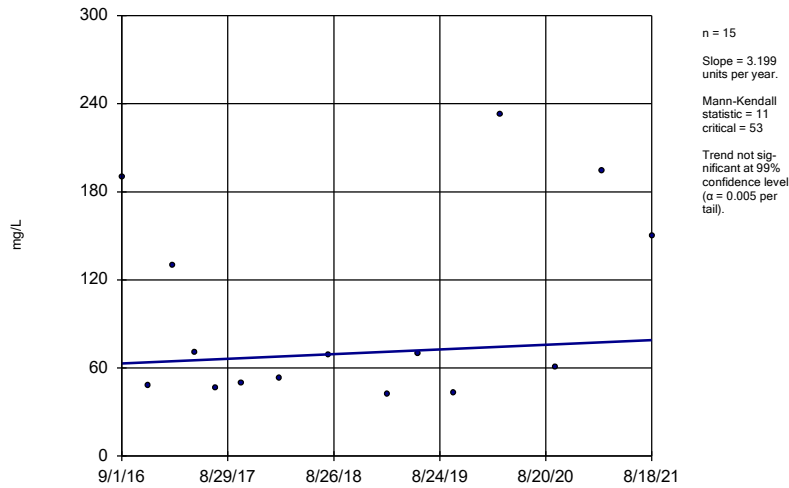
GWC-2R



Constituent: Chloride Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

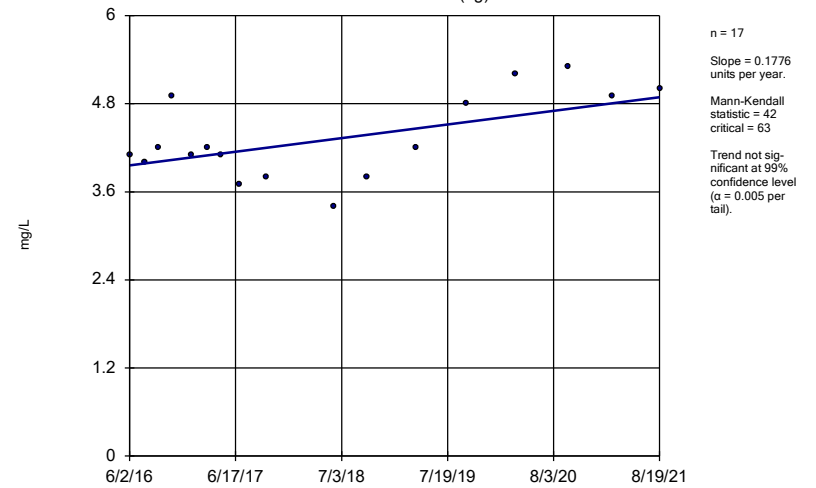
GWC-4R



Constituent: Chloride Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

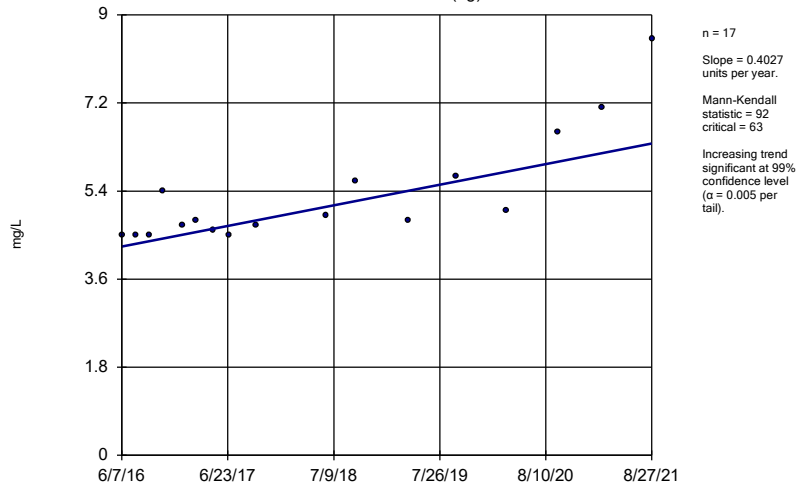
YGWA-14S (bg)



Constituent: Chloride Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

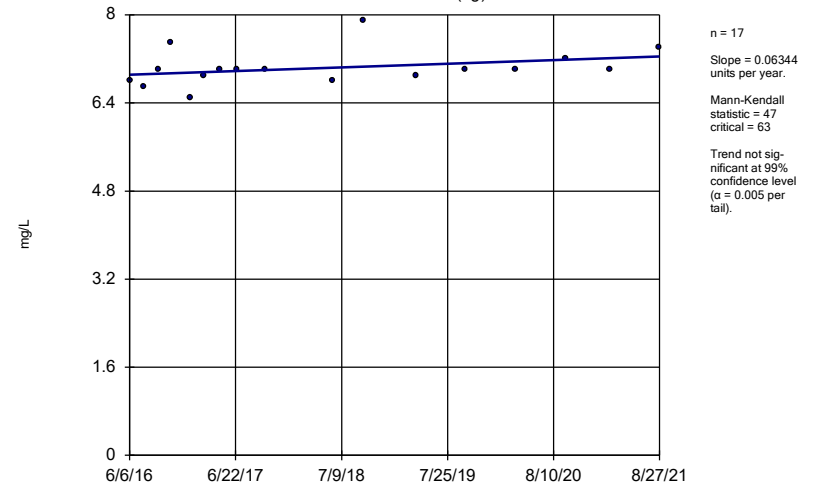
YGWA-17S (bg)



Constituent: Chloride Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

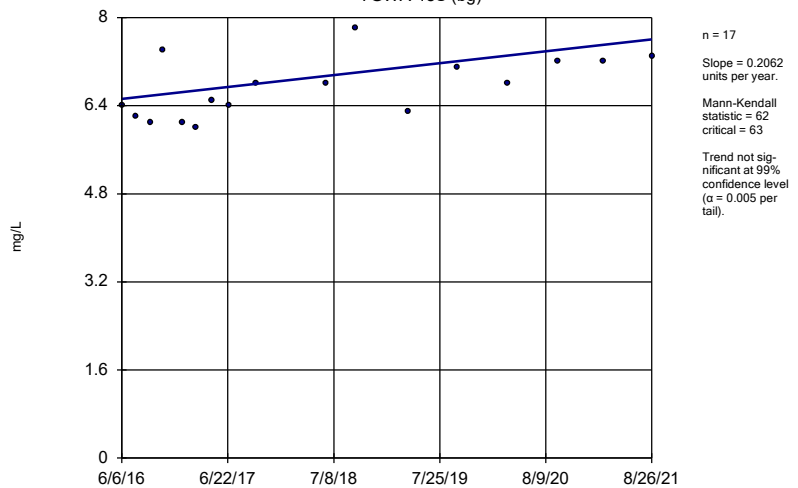
YGWA-18I (bg)



Constituent: Chloride Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

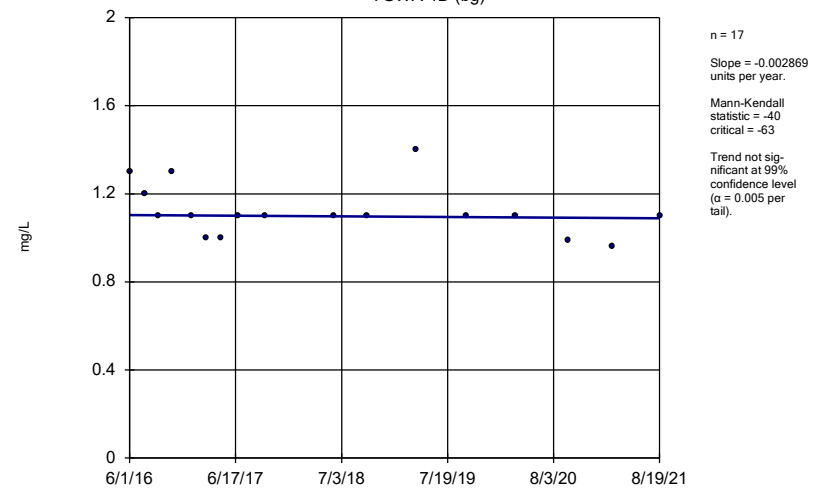
YGWA-18S (bg)



Constituent: Chloride Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

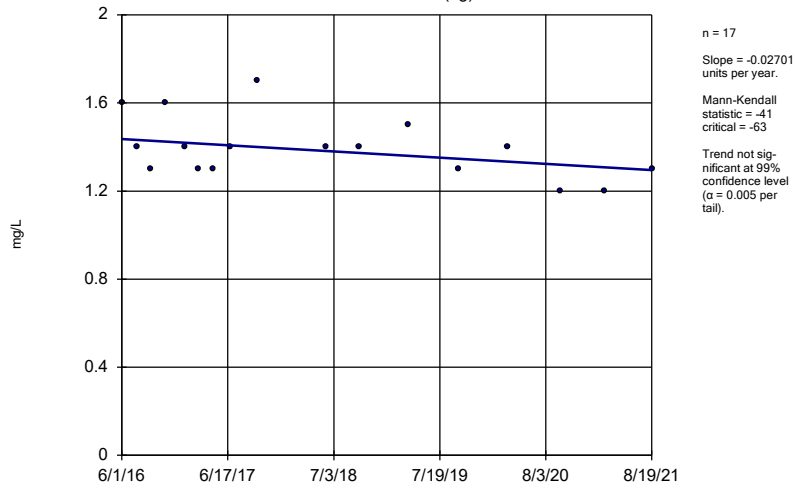
YGWA-1D (bg)



Constituent: Chloride Analysis Run 10/29/2021 4:07 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

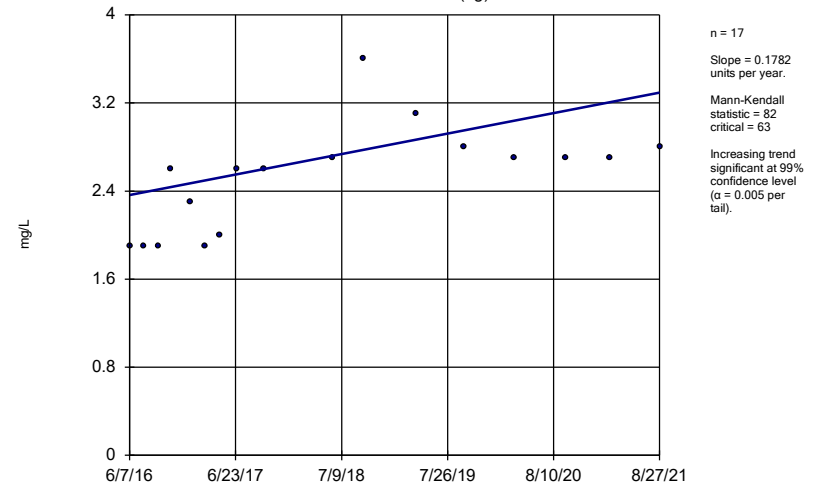
YGWA-11 (bg)



Constituent: Chloride Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

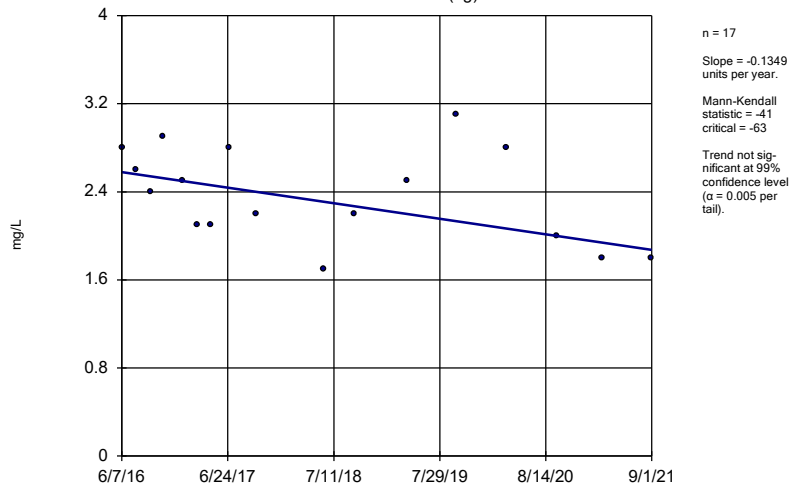
YGWA-20S (bg)



Constituent: Chloride Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

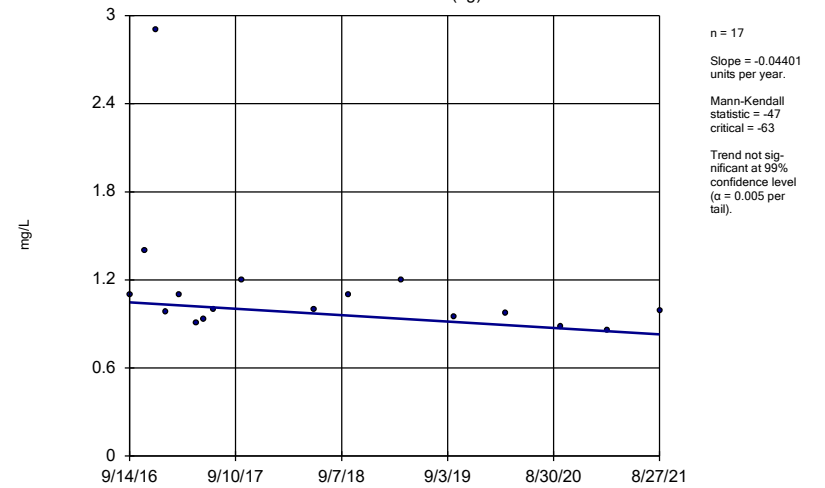
YGWA-21I (bg)



Constituent: Chloride Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

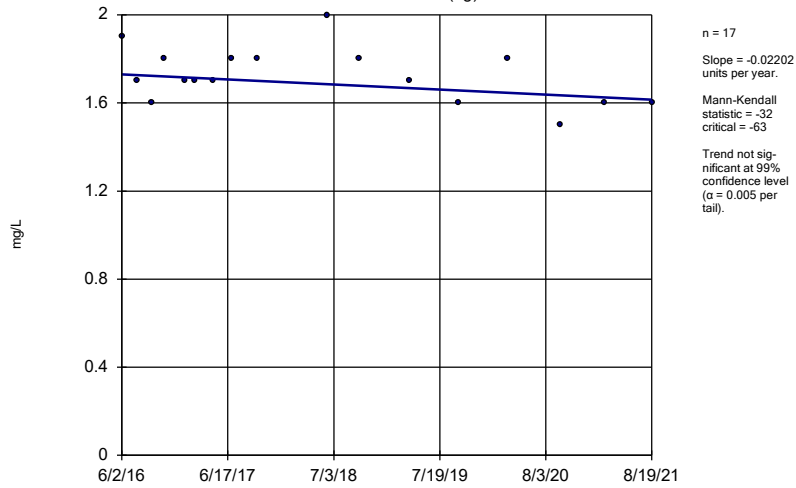
YGWA-2I (bg)



Constituent: Chloride Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

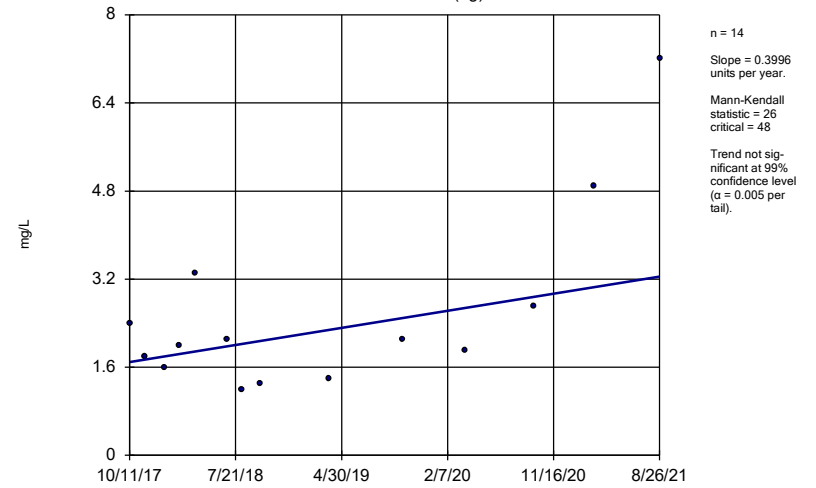
YGWA-30I (bg)



Constituent: Chloride Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

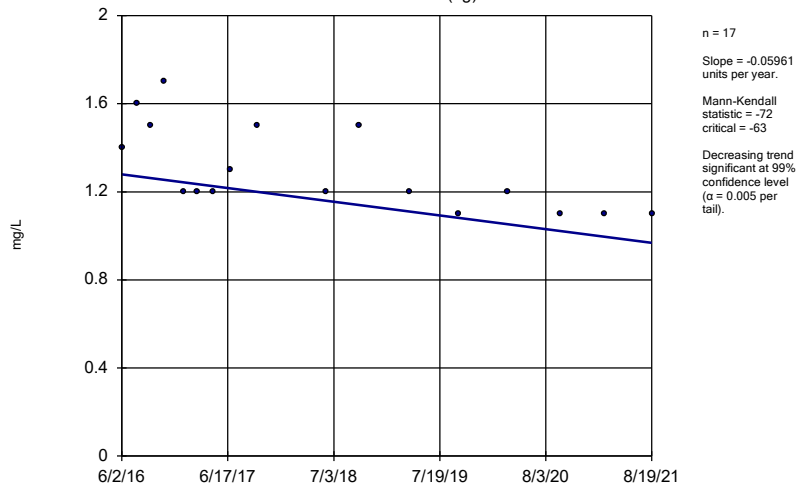
YGWA-39 (bg)



Constituent: Chloride Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

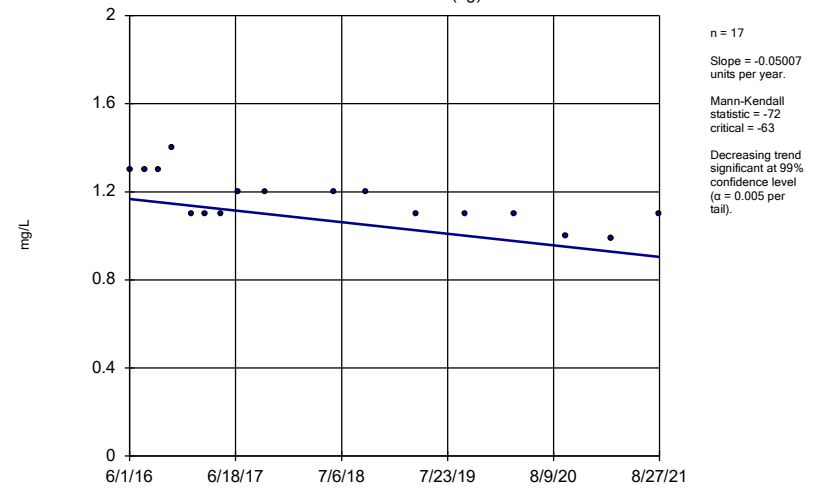
YGWA-3D (bg)



Constituent: Chloride Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

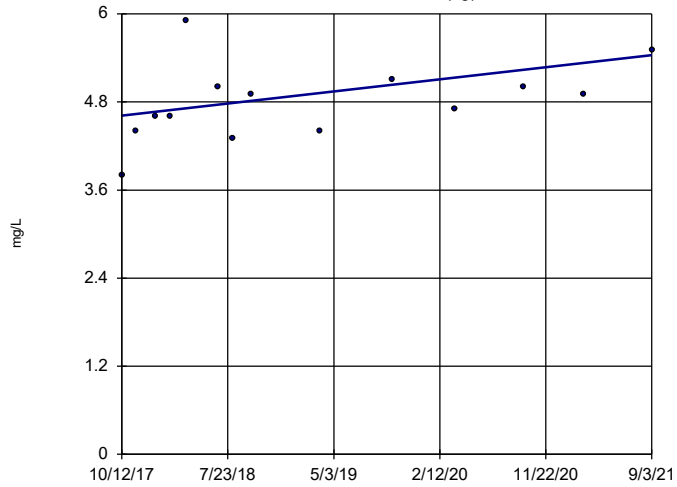
YGWA-3I (bg)



Constituent: Chloride Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-40 (bg)

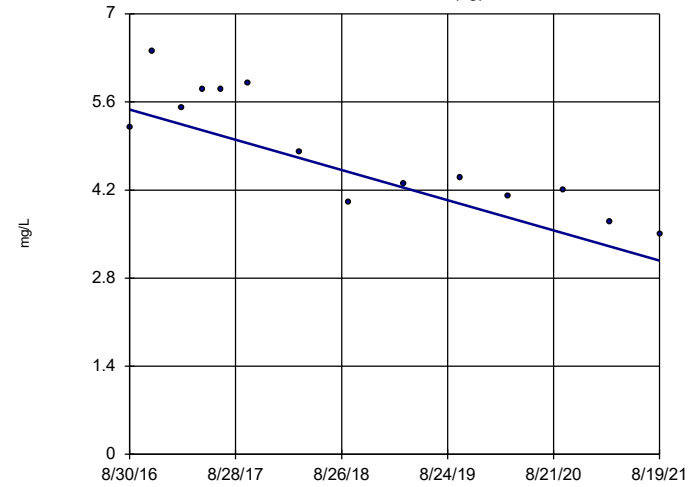


n = 14
 Slope = 0.2116
 units per year.
 Mann-Kendall
 statistic = 37
 critical = 48
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-47 (bg)

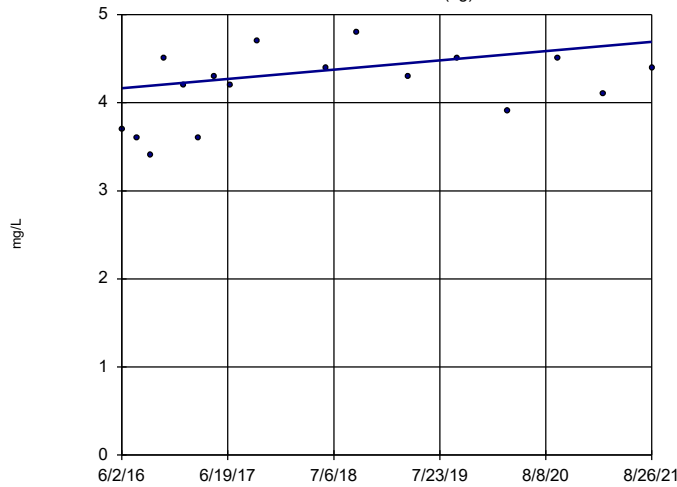


n = 14
 Slope = -0.4824
 units per year.
 Mann-Kendall
 statistic = -58
 critical = -48
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-41 (bg)

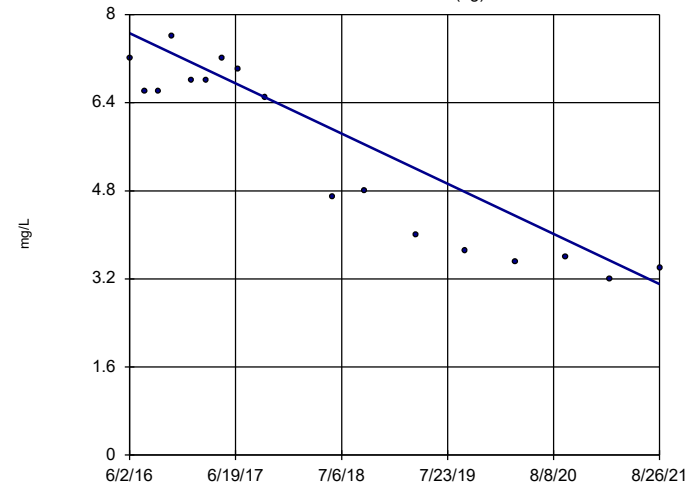


n = 17
 Slope = 0.1004
 units per year.
 Mann-Kendall
 statistic = 41
 critical = 63
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-5D (bg)

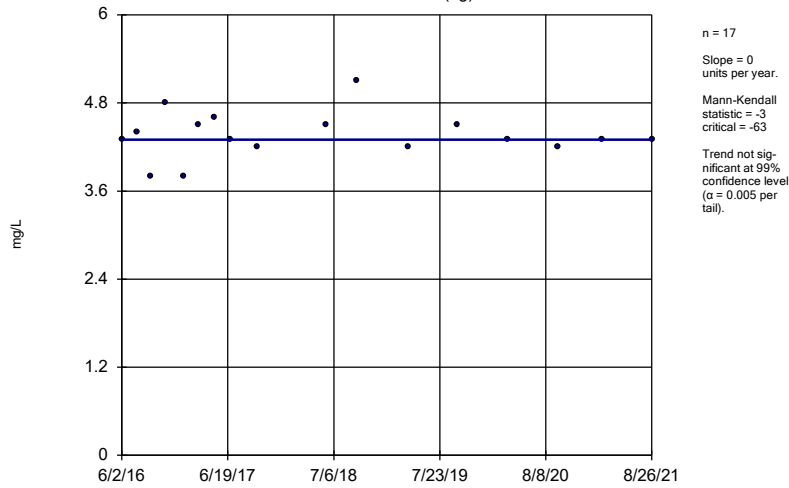


n = 17
 Slope = -0.8704
 units per year.
 Mann-Kendall
 statistic = -97
 critical = -63
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

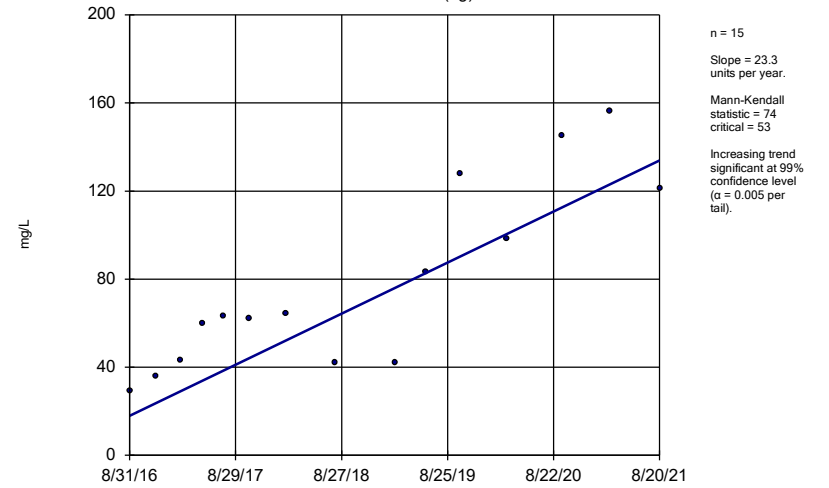
YGWA-5l (bg)



Constituent: Chloride Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

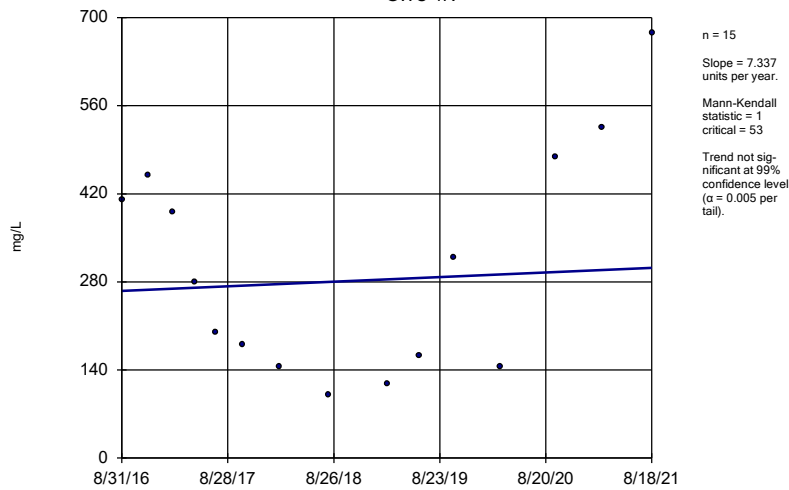
GWA-2 (bg)



Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

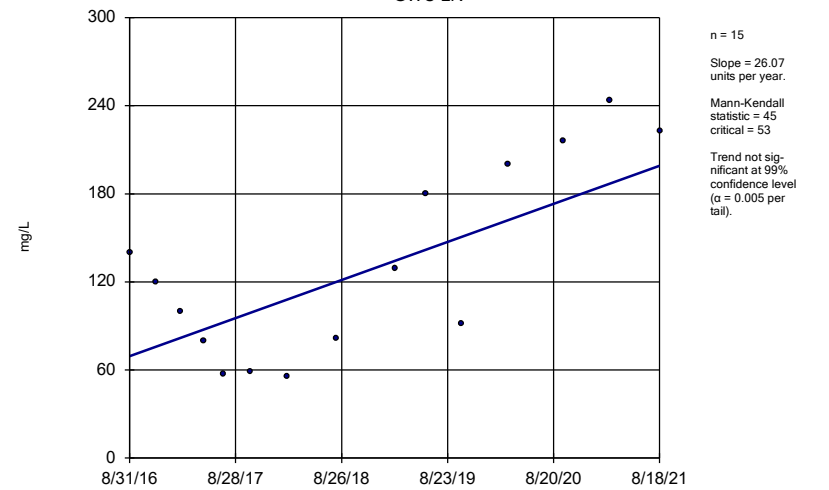
GWC-1R



Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

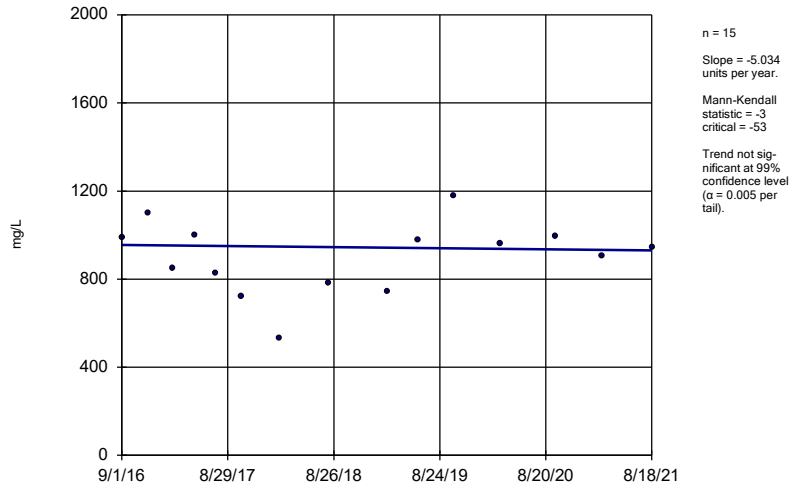
Sen's Slope Estimator

GWC-2R



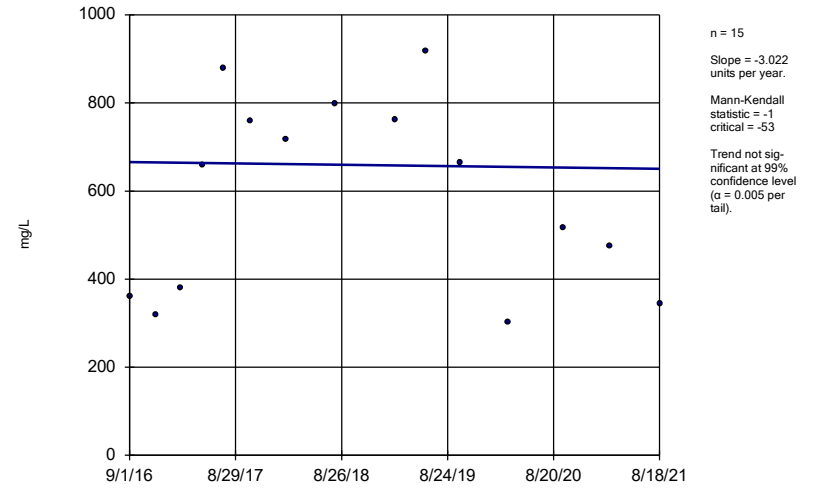
Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
GWC-5R



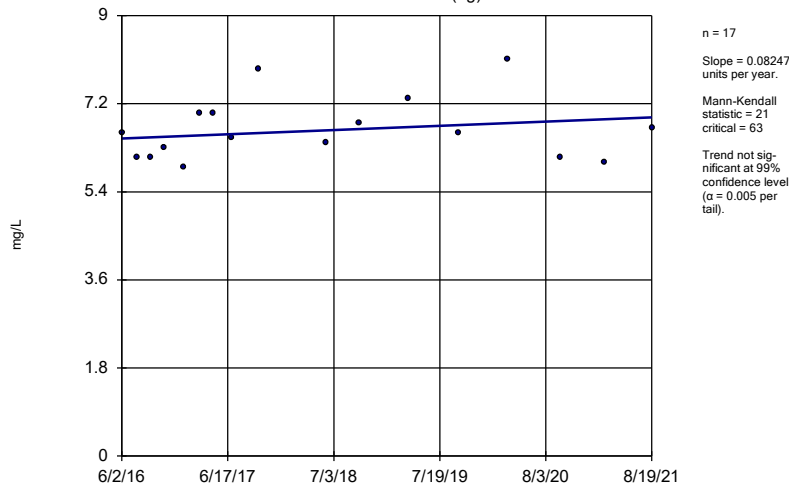
Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
GWC-6R



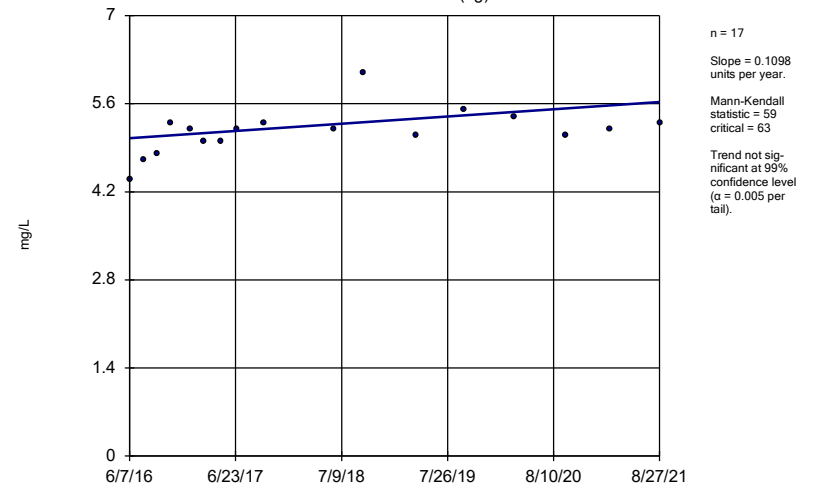
Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
YGWA-14S (bg)



Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

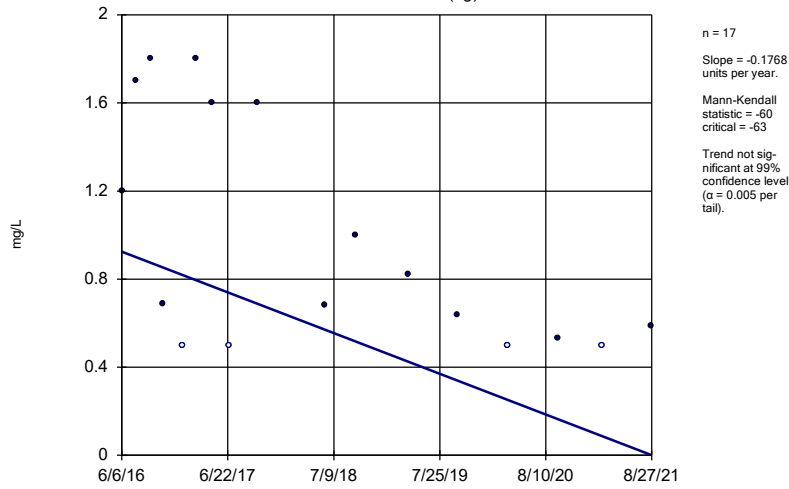
Sen's Slope Estimator
YGWA-17S (bg)



Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

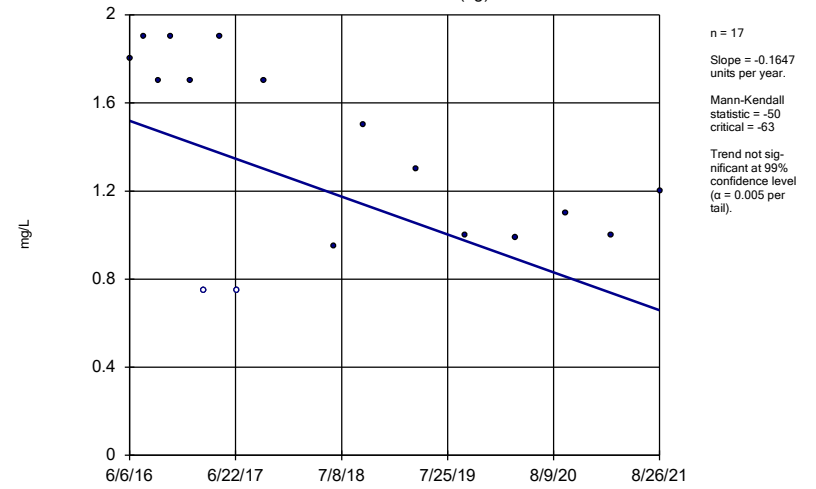
YGWA-18I (bg)



Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

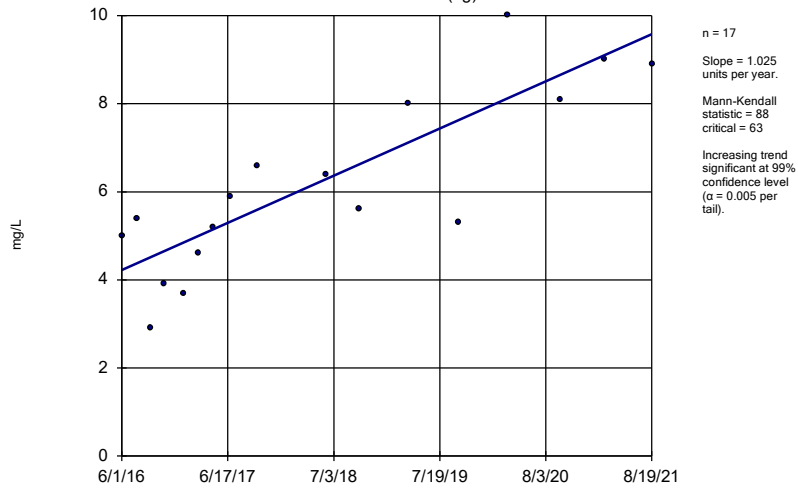
YGWA-18S (bg)



Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

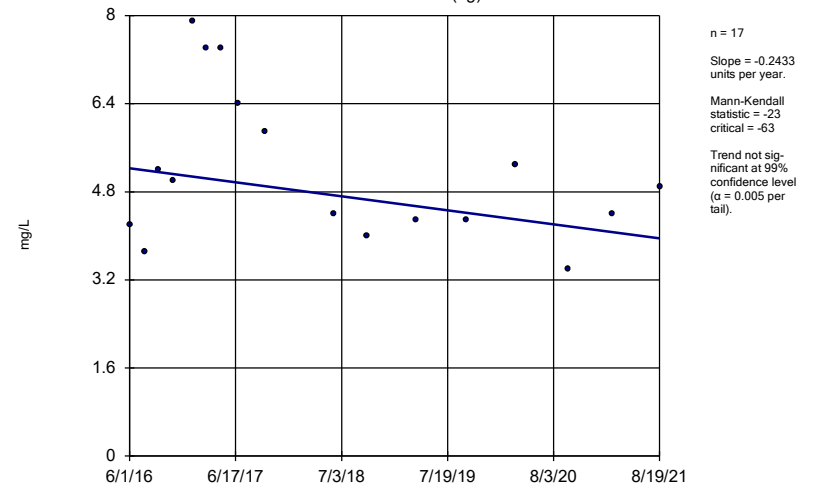
YGWA-1D (bg)



Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

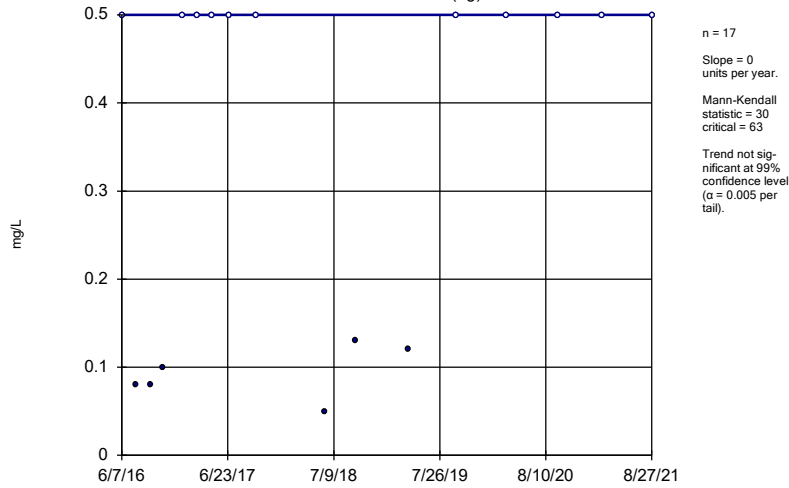
YGWA-1I (bg)



Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

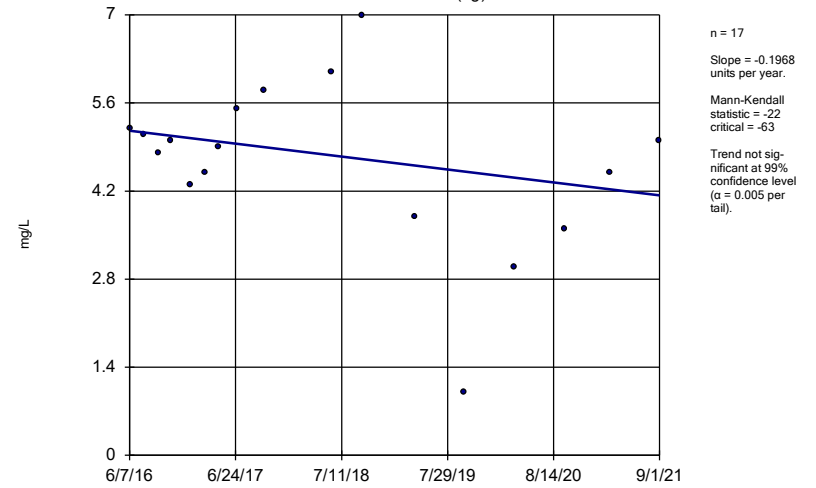
YGWA-20S (bg)



Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

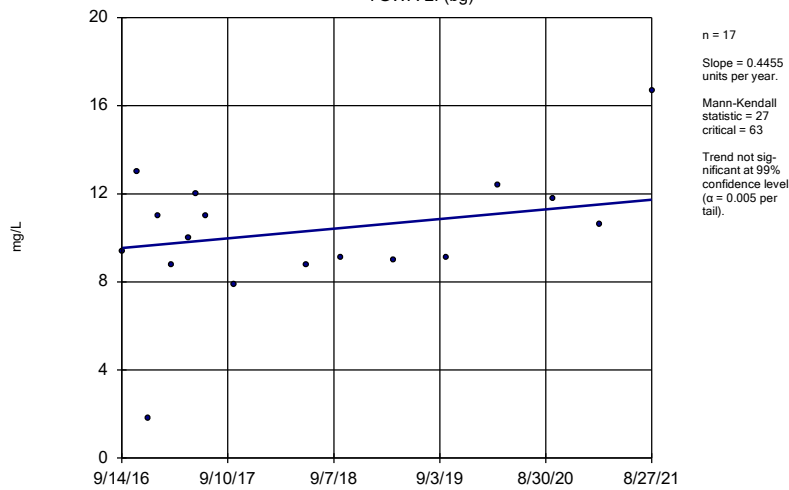
YGWA-21I (bg)



Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

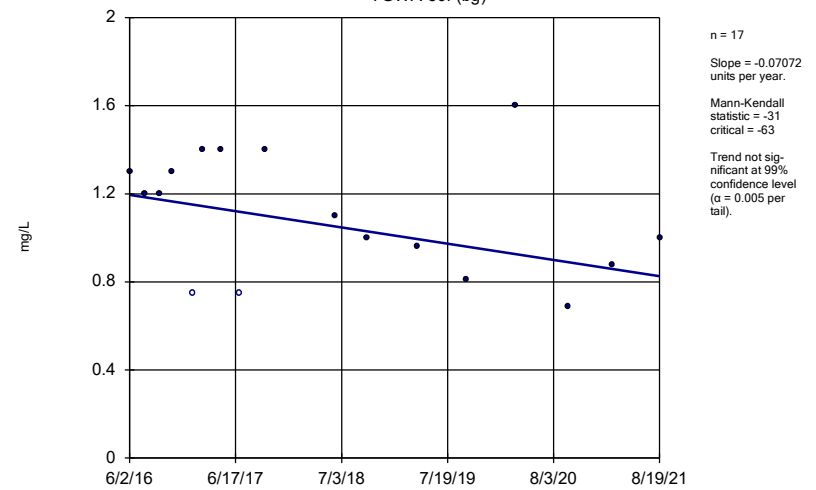
YGWA-2I (bg)



Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

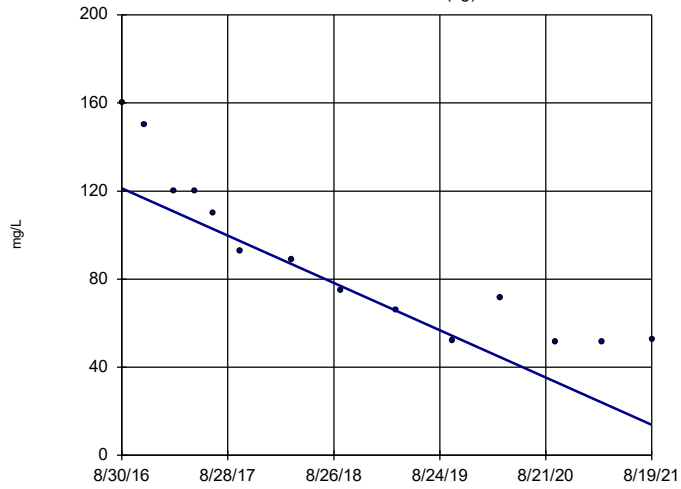
YGWA-30I (bg)



Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-47 (bg)

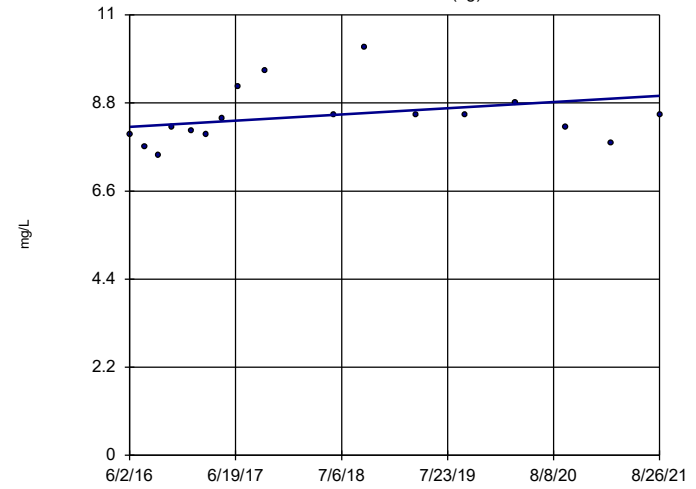


n = 14
 Slope = -21.6 units per year.
 Mann-Kendall statistic = -78
 critical = -48
 Decreasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-4I (bg)

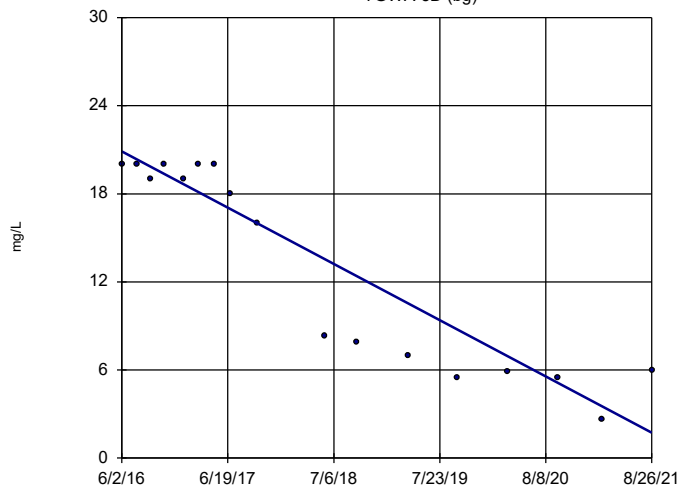


n = 17
 Slope = 0.1495 units per year.
 Mann-Kendall statistic = 44
 critical = 63
 Trend not significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-5D (bg)

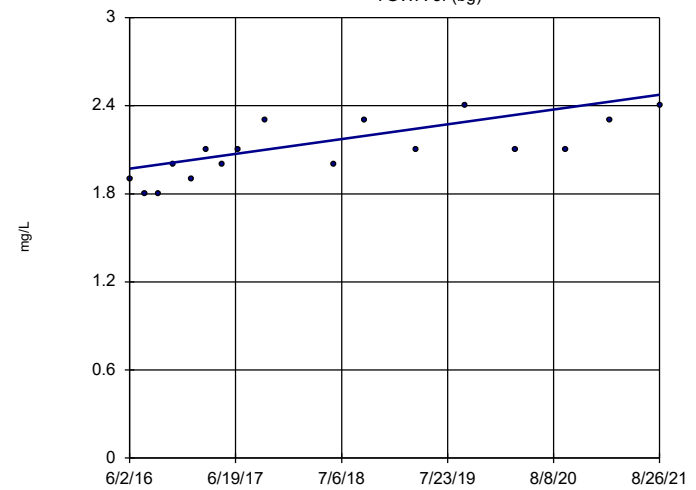


n = 17
 Slope = -3.658 units per year.
 Mann-Kendall statistic = -104
 critical = -63
 Decreasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-5I (bg)

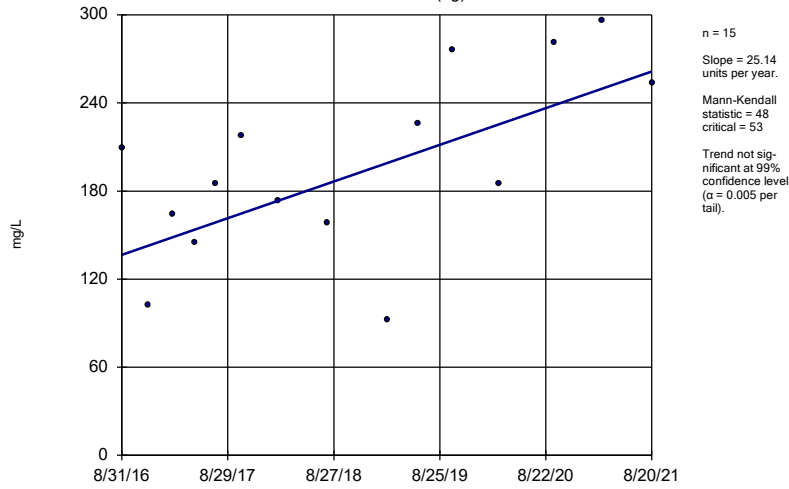


n = 17
 Slope = 0.09609 units per year.
 Mann-Kendall statistic = 85
 critical = 63
 Increasing trend significant at 99% confidence level ($\alpha = 0.005$ per tail).

Constituent: Sulfate Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

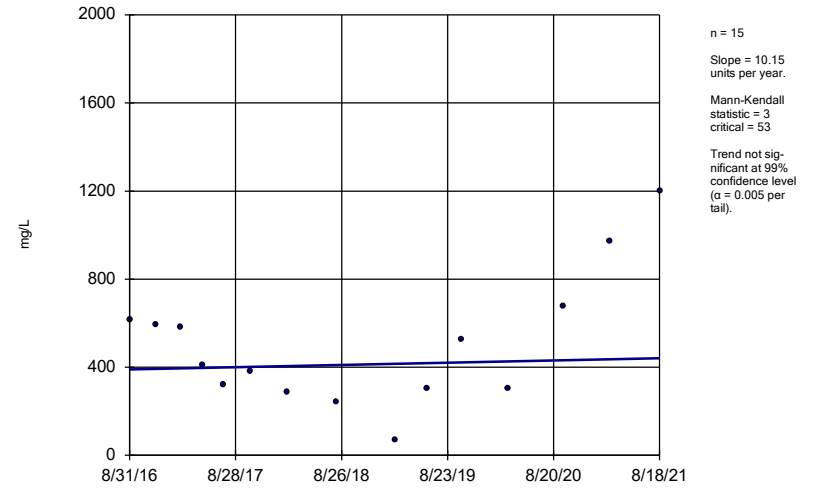
GWA-2 (bg)



Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

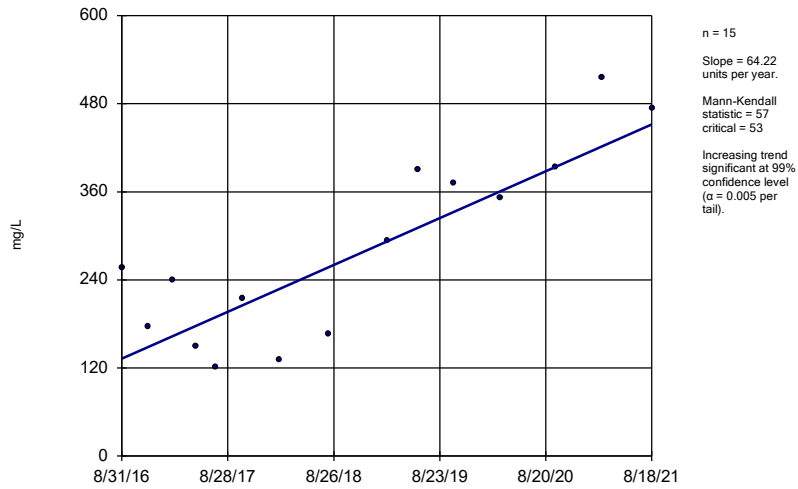
GWC-1R



Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

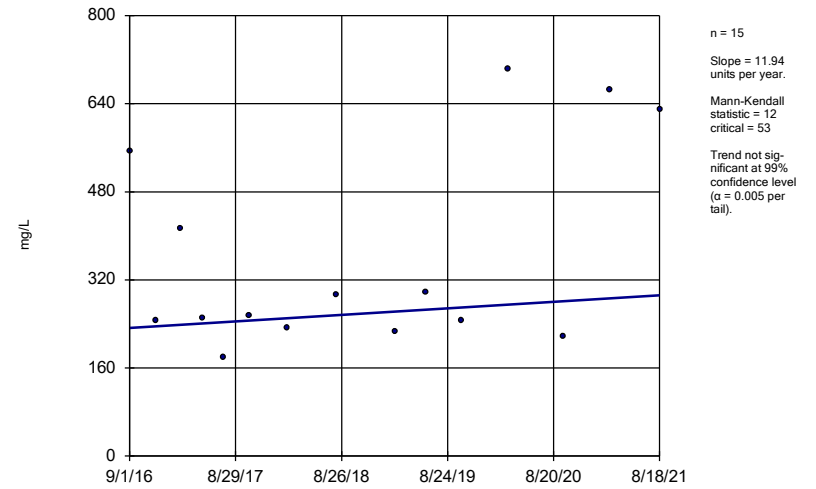
GWC-2R



Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

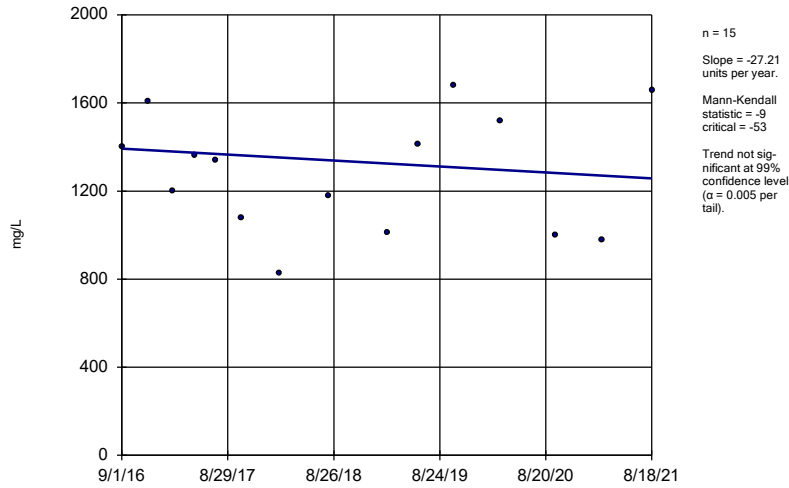
Sen's Slope Estimator

GWC-4R



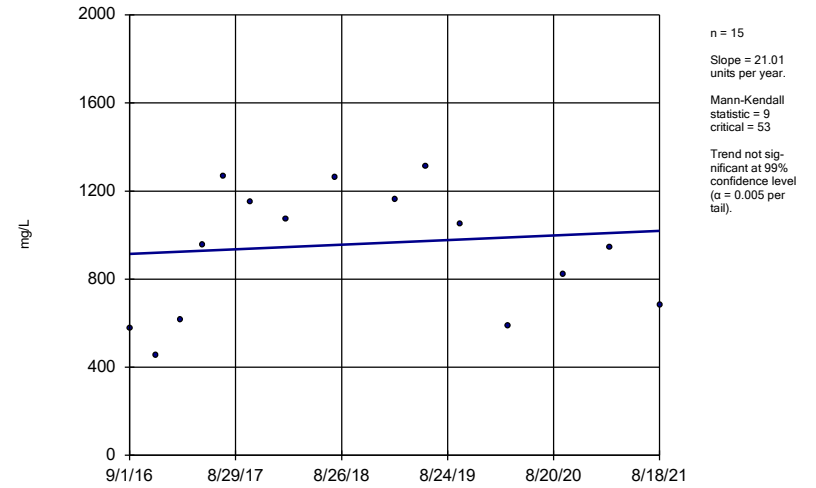
Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
GWC-5R



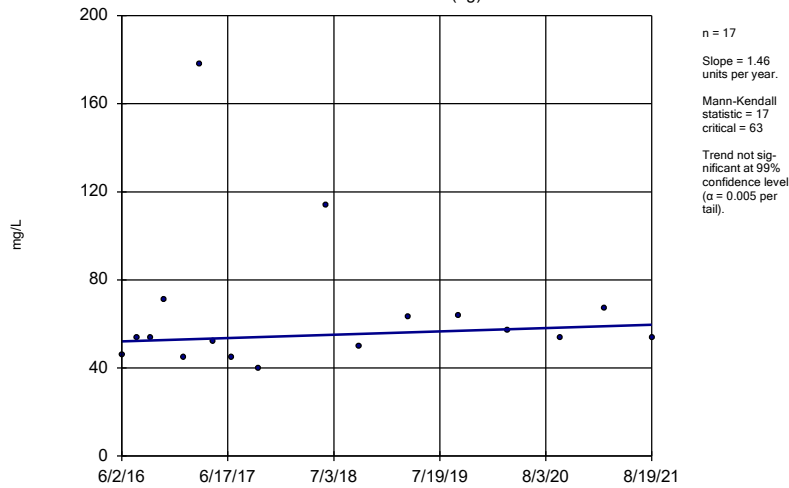
Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
GWC-6R



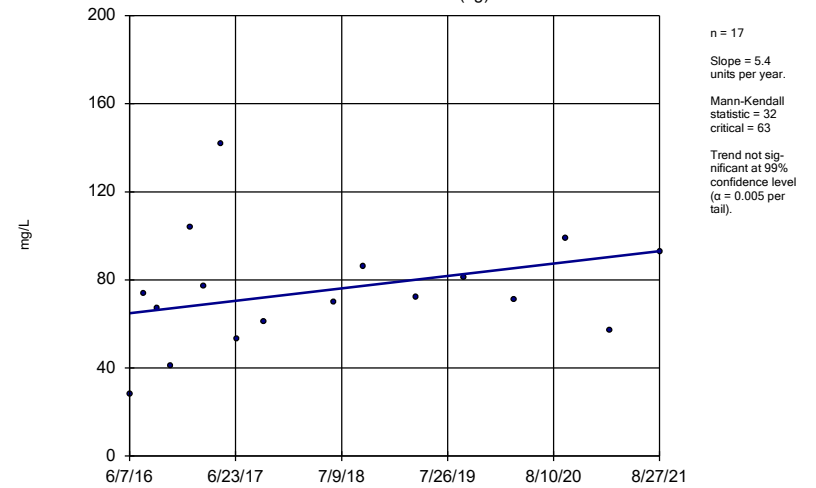
Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
YGWA-14S (bg)



Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

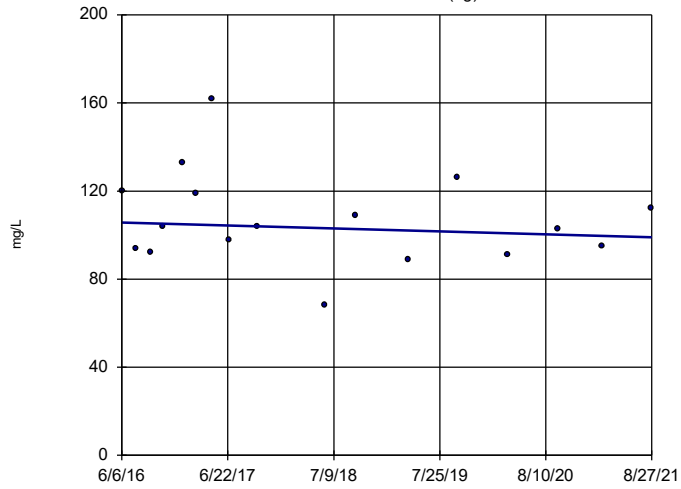
Sen's Slope Estimator
YGWA-17S (bg)



Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-18I (bg)

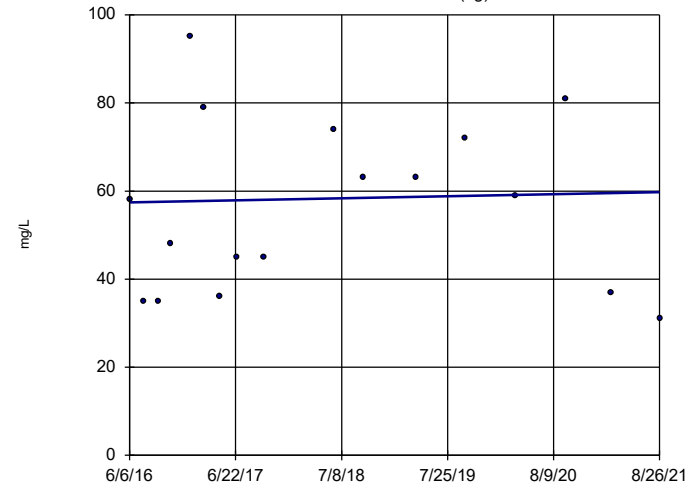


n = 17
 Slope = -1.272
 units per year.
 Mann-Kendall
 statistic = -13
 critical = -63
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-18S (bg)

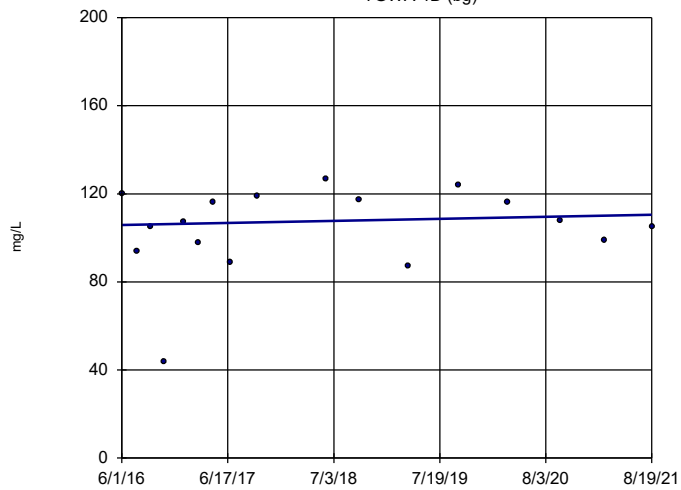


n = 17
 Slope = 0.4413
 units per year.
 Mann-Kendall
 statistic = 9
 critical = 63
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-1D (bg)

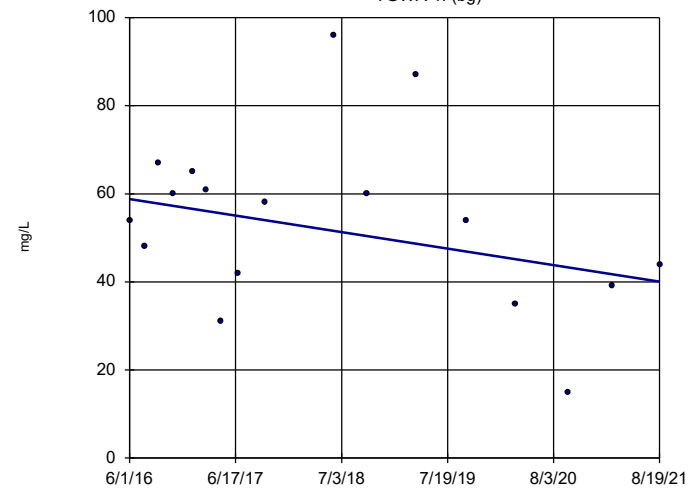


n = 17
 Slope = 0.915
 units per year.
 Mann-Kendall
 statistic = 10
 critical = 63
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-1I (bg)

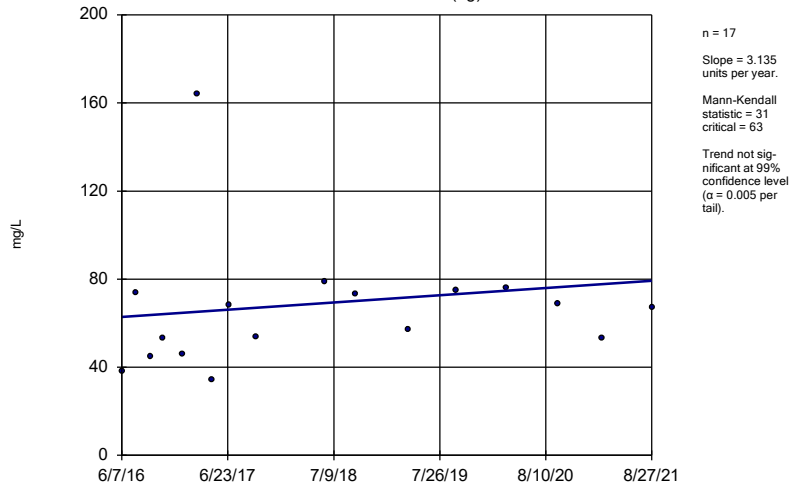


n = 17
 Slope = -3.586
 units per year.
 Mann-Kendall
 statistic = -32
 critical = -63
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

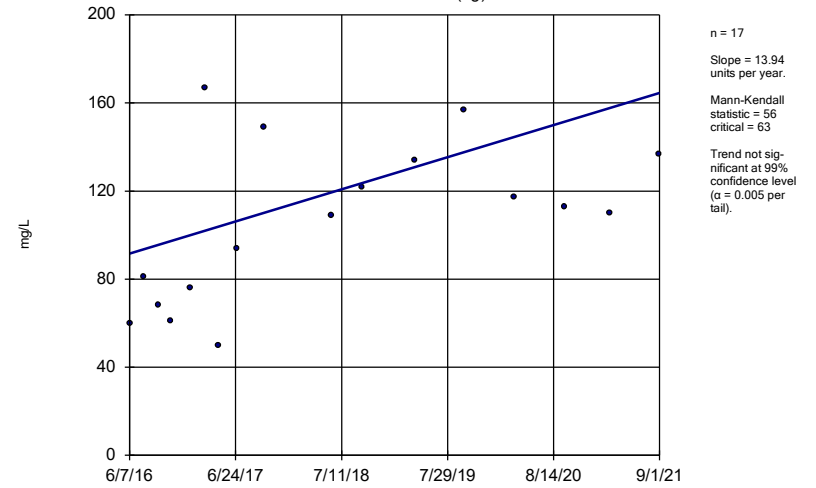
YGWA-20S (bg)



Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

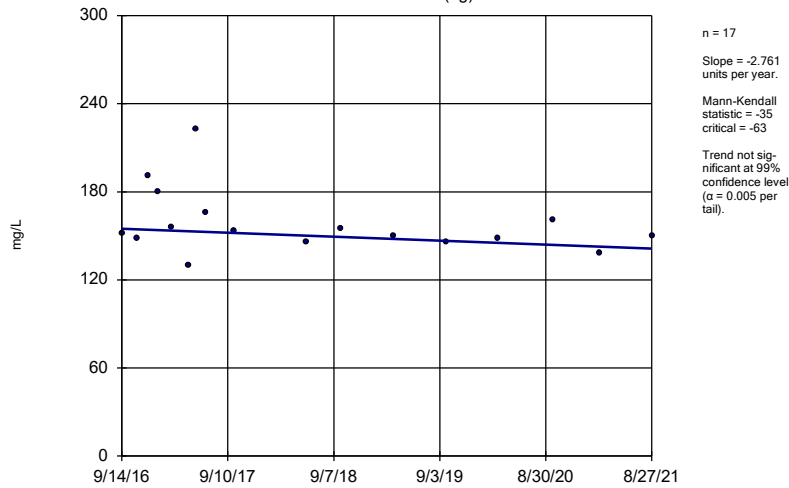
YGWA-21I (bg)



Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-2I (bg)

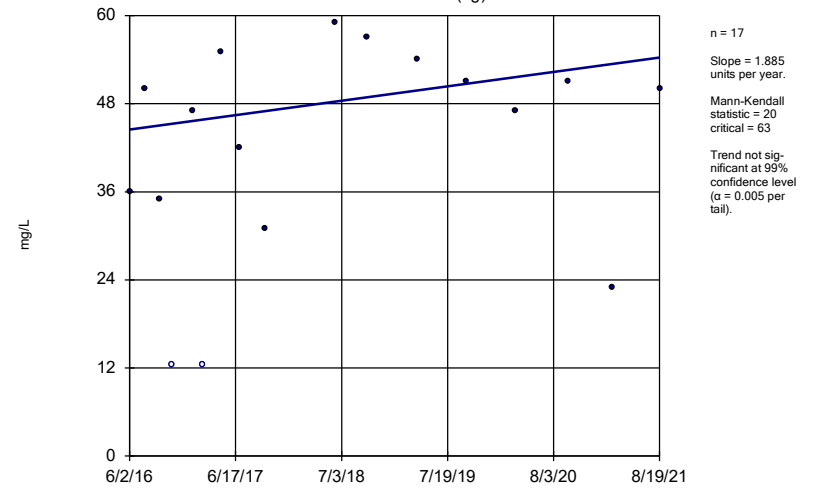


Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Hollow symbols indicate censored values.

Sen's Slope Estimator

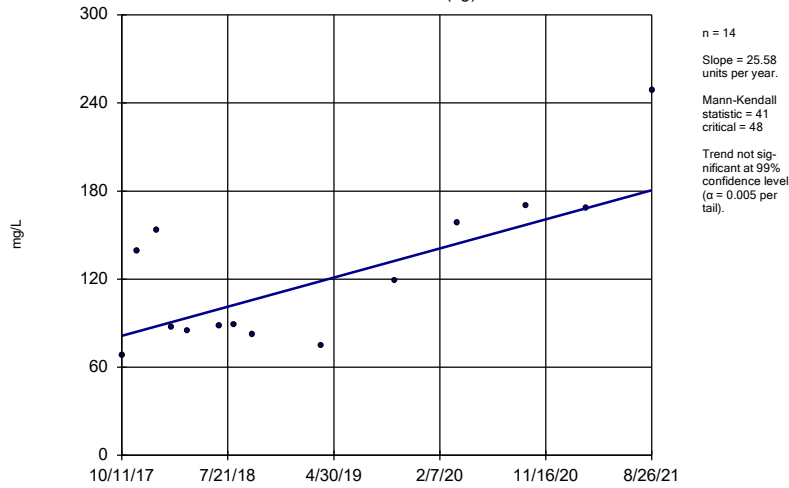
YGWA-30I (bg)



Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

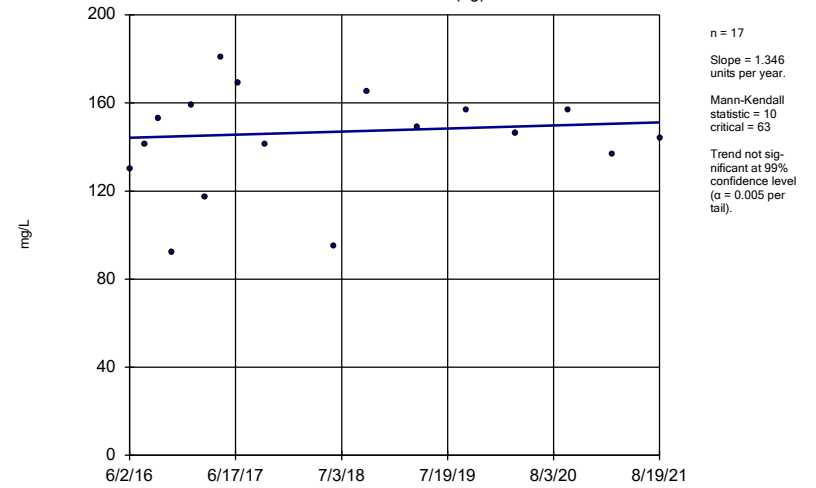
YGWA-39 (bg)



Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

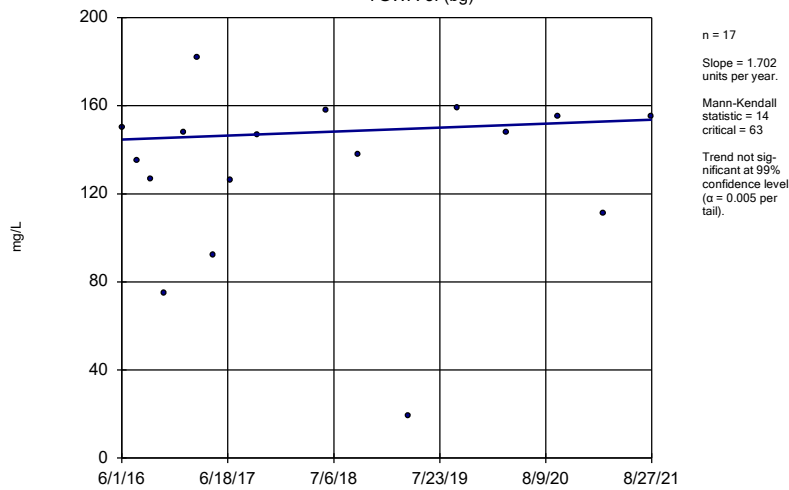
YGWA-3D (bg)



Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

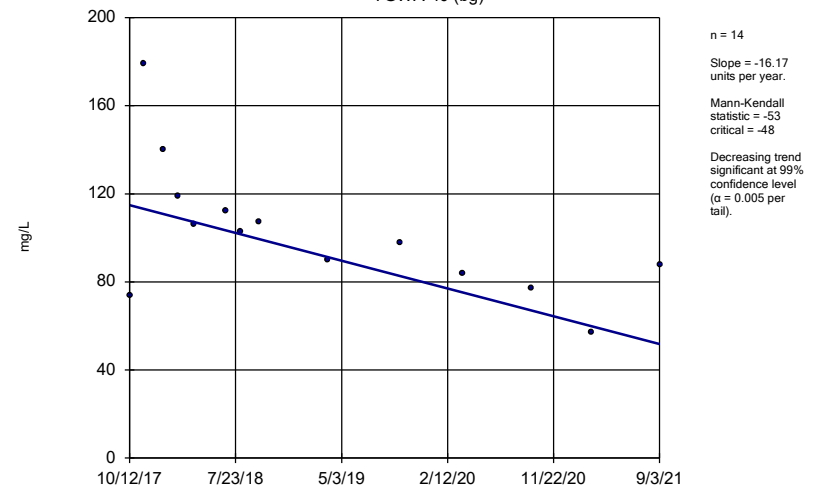
YGWA-3I (bg)



Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-40 (bg)



Constituent: TDS Analysis Run 10/29/2021 4:08 PM View: Trend Tests - Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

FIGURE J.

Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 3:43 PM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.0047	334	n/a	n/a	86.83	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	382	n/a	n/a	78.8	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.071	382	n/a	n/a	2.88	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0005	366	n/a	n/a	80.87	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.0005	366	n/a	n/a	95.63	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	334	n/a	n/a	78.74	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	378	n/a	n/a	69.31	n/a	n/a	NaN	NP Inter(normality)
Combined Radium 226 + 228 (pCi/L)	6.92	361	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	0.68	381	n/a	n/a	67.98	n/a	n/a	NaN	NP Inter(normality)
Lead (mg/L)	0.0013	336	n/a	n/a	83.63	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	361	n/a	n/a	27.15	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.0002	290	n/a	n/a	93.1	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.014	325	n/a	n/a	60	n/a	n/a	NaN	NP Inter(normality)
Selenium (mg/L)	0.005	364	n/a	n/a	92.03	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	300	n/a	n/a	96.67	n/a	n/a	NaN	NP Inter(NDs)

FIGURE K.

YATES LANDFILL GYPSUM STACK GWPS			
Constituent Name	MCL	Background Limit	GWPS
Antimony, Total (mg/L)	0.006	0.0047	0.006
Arsenic, Total (mg/L)	0.01	0.005	0.01
Barium, Total (mg/L)	2	0.071	2
Beryllium, Total (mg/L)	0.004	0.0005	0.004
Cadmium, Total (mg/L)	0.005	0.0005	0.005
Chromium, Total (mg/L)	0.1	0.0093	0.1
Cobalt, Total (mg/L)	n/a	0.035	0.035
Combined Radium, Total (pCi/L)	5	6.92	6.92
Fluoride, Total (mg/L)	4	0.68	4
Lead, Total (mg/L)	n/a	0.0013	0.0013
Lithium, Total (mg/L)	n/a	0.03	0.03
Mercury, Total (mg/L)	0.002	0.0002	0.002
Molybdenum, Total (mg/L)	n/a	0.014	0.014
Selenium, Total (mg/L)	0.05	0.005	0.05
Thallium, Total (mg/L)	0.002	0.001	0.002

**Grey cell indicates Background Limit is higher than MCL*

**MCL = Maximum Contaminant Level*

**GWPS = Groundwater Protection Standard*

FIGURE L.

Appendix IV Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 7:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWC-2R	0.003	0.0017	0.006	No	18	0.002928	0.0003064	94.44	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-4R	0.003	0.0014	0.006	No	18	0.002623	0.0008911	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-5R	0.003	0.00054	0.006	No	18	0.002714	0.0008336	88.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-1R	0.005	0.0011	0.01	No	18	0.003708	0.001916	66.67	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-2R	0.005	0.0011	0.01	No	18	0.004547	0.001319	88.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-3R	0.005	0.0017	0.01	No	18	0.004073	0.001584	72.22	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-4R	0.005	0.00059	0.01	No	18	0.004498	0.001462	88.89	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-5R	0.0024	0.00092	0.01	No	18	0.002131	0.001646	22.22	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-6R	0.005	0.00072	0.01	No	18	0.002994	0.002096	50	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-1R	0.0711	0.0322	2	No	18	0.05153	0.01848	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-2R	0.0526	0.04389	2	No	18	0.04824	0.007204	0	None	No	0.01	Param.
Barium (mg/L)	GWC-3R	0.03169	0.01989	2	No	18	0.02579	0.009758	0	None	No	0.01	Param.
Barium (mg/L)	GWC-4R	0.035	0.017	2	No	18	0.02429	0.008831	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-5R	0.0345	0.013	2	No	18	0.02087	0.01027	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-6R	0.06957	0.04746	2	No	18	0.05852	0.01827	0	None	No	0.01	Param.
Beryllium (mg/L)	GWC-1R	0.003	0.00008	0.004	No	18	0.001095	0.001387	33.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-2R	0.003	0.00014	0.004	No	18	0.001584	0.001459	50	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-3R	0.0007298	0.0003243	0.004	No	18	0.0006344	0.0006449	5.556	None	ln(x)	0.01	Param.
Beryllium (mg/L)	GWC-4R	0.003	0.00011	0.004	No	18	0.002513	0.001121	83.33	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-5R	0.00219	0.0007502	0.004	No	18	0.001619	0.001192	5.556	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	GWC-1R	0.0005	0.00016	0.005	No	18	0.0003978	0.0001705	72.22	None	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-2R	0.0005	0.00016	0.005	No	18	0.0003794	0.0001762	66.67	None	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-3R	0.0005	0.00018	0.005	No	18	0.0003511	0.0001623	50	None	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-4R	0.0005	0.0001	0.005	No	18	0.0004778	0.00009428	94.44	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-5R	0.0009532	0.000579	0.005	No	18	0.0007661	0.0003093	5.556	None	No	0.01	Param.
Chromium (mg/L)	GWC-1R	0.0015	0.001	0.1	No	18	0.001967	0.001676	22.22	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-2R	0.005	0.0008	0.1	No	18	0.00402	0.001888	77.78	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-3R	0.0017	0.0009	0.1	No	18	0.002006	0.001665	22.22	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-4R	0.005	0.0011	0.1	No	18	0.003843	0.001926	72.22	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-5R	0.0024	0.0018	0.1	No	18	0.002311	0.0007332	5.556	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-6R	0.0017	0.0012	0.1	No	18	0.001966	0.001412	16.67	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-1R	0.005	0.00064	0.035	No	18	0.002074	0.001962	27.78	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-2R	0.02103	0.0104	0.035	No	18	0.01571	0.008785	5.556	None	No	0.01	Param.
Cobalt (mg/L)	GWC-3R	0.0086	0.0041	0.035	No	18	0.005689	0.002558	61.11	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-4R	0.0031	0.0006	0.035	No	18	0.002331	0.002179	16.67	None	No	0.01	NP (Cohens/xfrm)
Cobalt (mg/L)	GWC-5R	0.005	0.00044	0.035	No	18	0.003723	0.00212	72.22	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-6R	0.005	0.005	0.035	No	18	0.005	0	100	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GWC-1R	1.037	0.5505	6.92	No	14	0.7939	0.3436	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2R	1.466	0.6398	6.92	No	14	1.053	0.5835	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-3R	1.073	0.2435	6.92	No	14	0.7206	0.7039	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-4R	0.6158	0.2042	6.92	No	14	0.41	0.2905	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-5R	0.8872	0.2357	6.92	No	14	0.6058	0.4502	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-6R	1.117	0.4306	6.92	No	14	0.8079	0.5687	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GWC-1R	0.1	0.06	4	No	17	0.08882	0.02118	76.47	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-2R	0.58	0.08	4	No	17	0.1165	0.1218	70.59	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-3R	0.15	0.07	4	No	17	0.1285	0.1251	41.18	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-4R	0.11	0.08	4	No	17	0.09882	0.02027	76.47	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-5R	0.35	0.056	4	No	17	0.1135	0.0967	52.94	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-6R	0.28	0.07	4	No	17	0.1012	0.05134	76.47	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-1R	0.001	0.000067	0.0013	No	18	0.0008955	0.0003042	88.89	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-2R	0.001	0.00007	0.0013	No	18	0.0006402	0.0004642	61.11	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-3R	0.001	0.000082	0.0013	No	18	0.0006459	0.0004571	61.11	None	No	0.01	NP (normality)
Lead (mg/L)	GWC-4R	0.001	0.000041	0.0013	No	18	0.0009467	0.000226	94.44	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-5R	0.001	0.00007	0.0013	No	18	0.0006945	0.0004455	66.67	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-1R	0.03	0.0012	0.03	No	15	0.007229	0.01179	20	None	No	0.01	NP (normality)

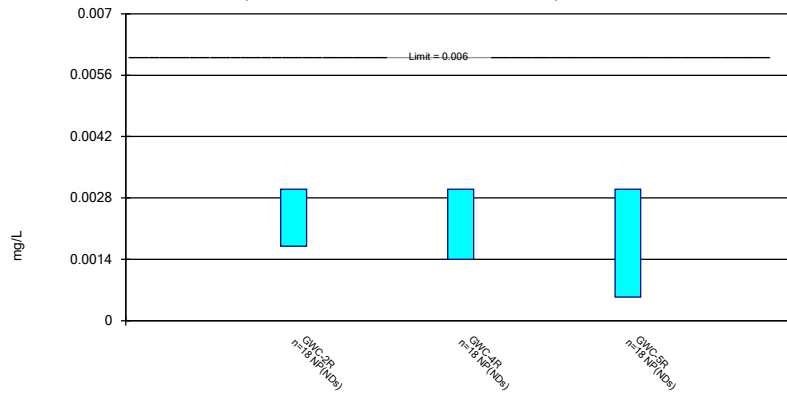
Appendix IV Confidence Intervals - All Results (No Significant) Page 2

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/29/2021, 7:11 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	GWC-2R	0.03	0.0035	0.03	No	15	0.00928	0.01074	20	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-3R	0.03	0.0012	0.03	No	15	0.02421	0.012	80	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-4R	0.03	0.0011	0.03	No	15	0.02037	0.0141	66.67	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-5R	0.03	0.0014	0.03	No	15	0.01669	0.01473	53.33	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-6R	0.03	0.0018	0.03	No	15	0.01018	0.01249	26.67	None	No	0.01	NP (normality)
Mercury (mg/L)	GWC-1R	0.0002	0.000059	0.002	No	18	0.0001922	0.00003323	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-2R	0.0002	0.000071	0.002	No	18	0.0001928	0.00003041	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-3R	0.00043	0.000064	0.002	No	18	0.0001949	0.00007887	83.33	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-4R	0.0002	0.000058	0.002	No	18	0.0001921	0.00003347	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-5R	0.0002	0.00006	0.002	No	18	0.0001922	0.000033	94.44	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-6R	0.0002	0.000067	0.002	No	18	0.0001821	0.00005289	88.89	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-1R	0.011	0.0022	0.05	No	18	0.006067	0.004707	22.22	None	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWC-2R	0.003979	0.002554	0.05	No	18	0.003267	0.001178	11.11	None	No	0.01	Param.
Selenium (mg/L)	GWC-3R	0.0091	0.0021	0.05	No	18	0.0058	0.004065	16.67	None	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWC-4R	0.005	0.003	0.05	No	18	0.004839	0.002778	5.556	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-5R	0.0263	0.01833	0.05	No	18	0.02232	0.006591	0	None	No	0.01	Param.
Selenium (mg/L)	GWC-6R	0.004023	0.002459	0.05	No	18	0.003317	0.001294	11.11	None	sqrt(x)	0.01	Param.
Thallium (mg/L)	GWC-2R	0.001	0.00007	0.002	No	18	0.0009483	0.0002192	94.44	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-5R	0.001	0.000053	0.002	No	18	0.0009474	0.0002232	94.44	None	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

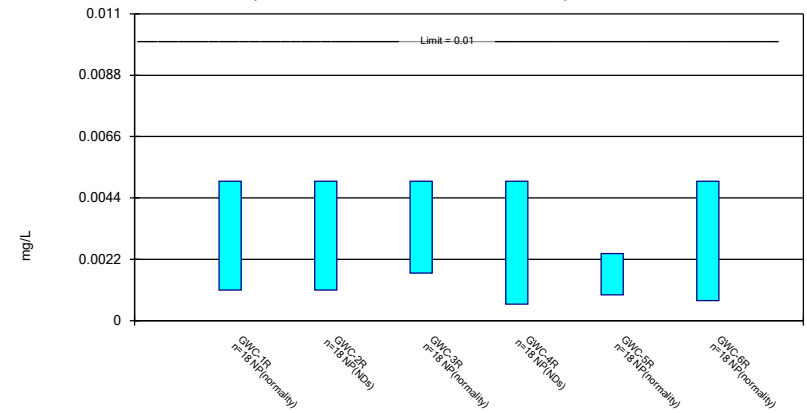
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 10/29/2021 7:07 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

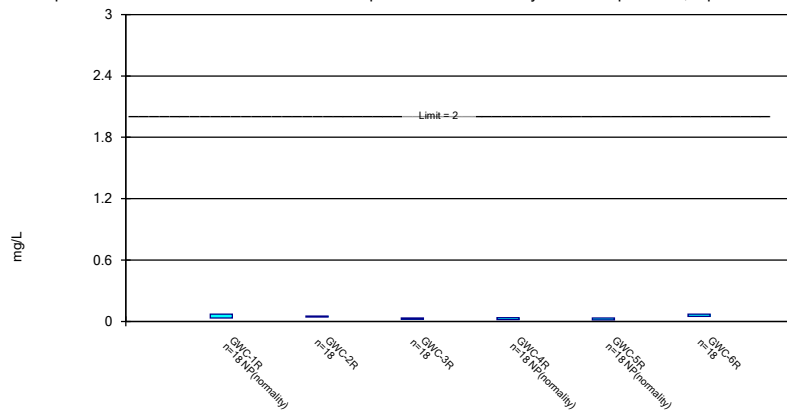
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Arsenic Analysis Run 10/29/2021 7:07 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

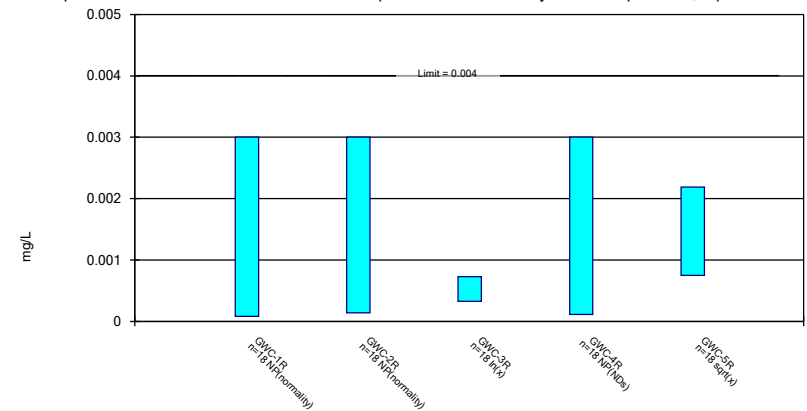
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 10/29/2021 7:07 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

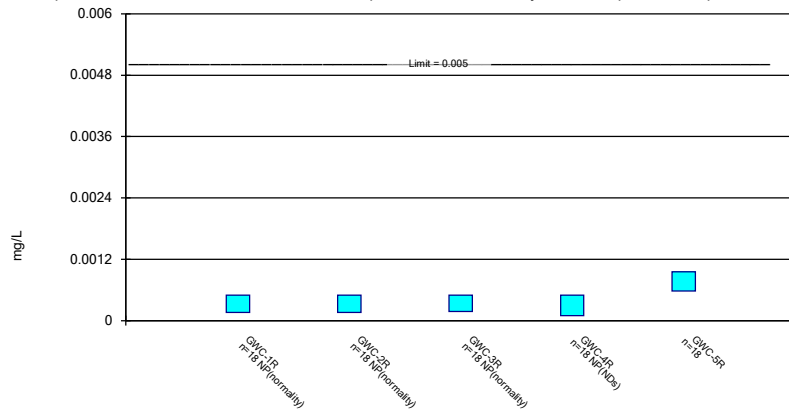
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 10/29/2021 7:07 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

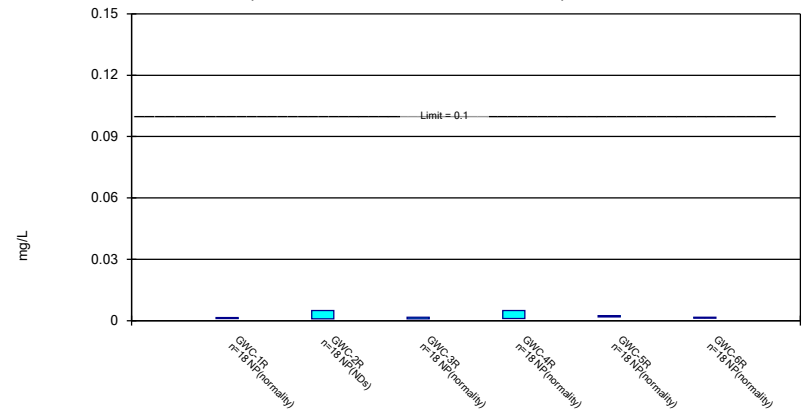
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 10/29/2021 7:07 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

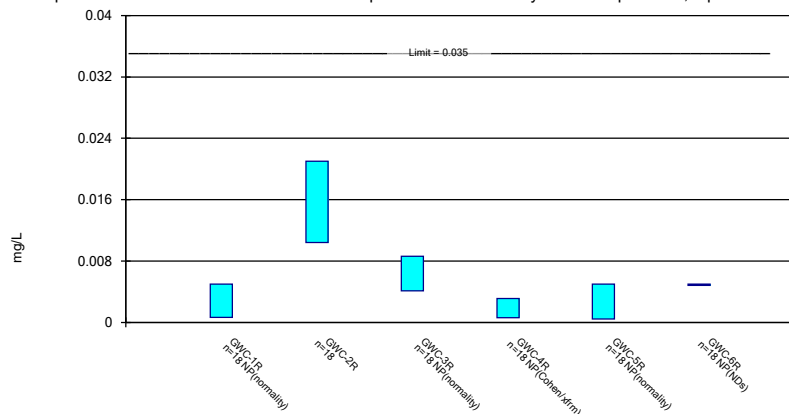
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 10/29/2021 7:07 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

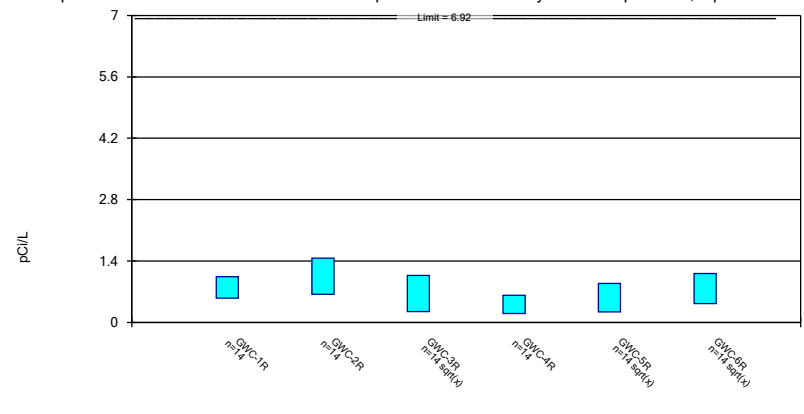
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 10/29/2021 7:08 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric Confidence Interval

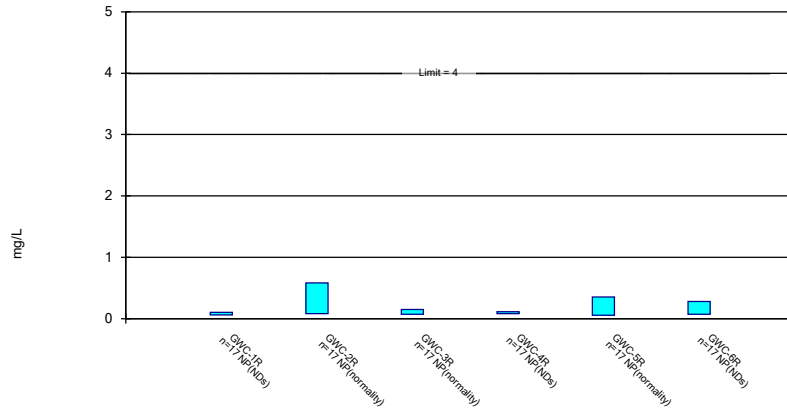
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 10/29/2021 7:08 AM View: Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

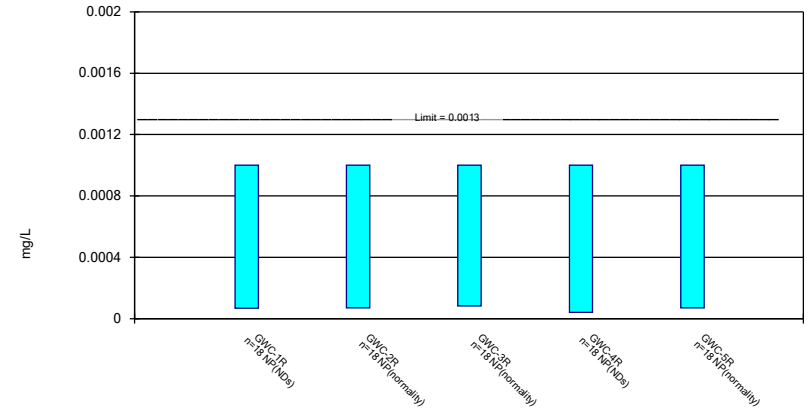
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Fluoride Analysis Run 10/29/2021 7:08 AM View: Confidence Intervals
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

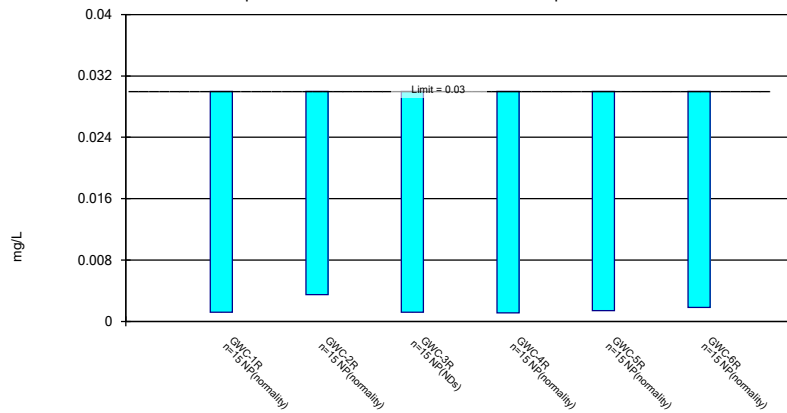
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 10/29/2021 7:08 AM View: Confidence Intervals
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

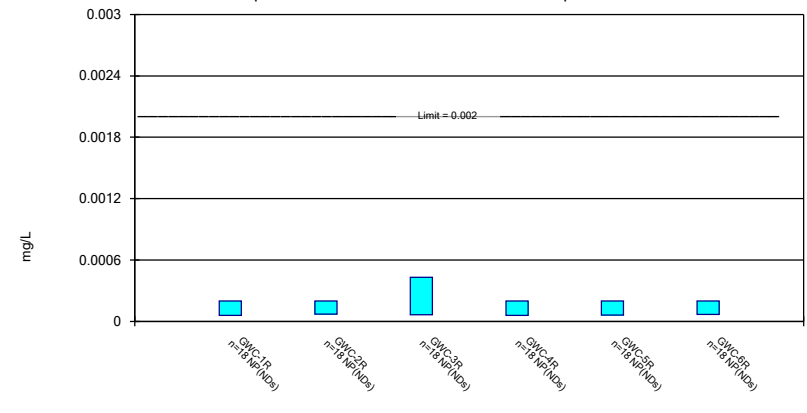
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Constituent: Lithium Analysis Run 10/29/2021 7:08 AM View: Confidence Intervals
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

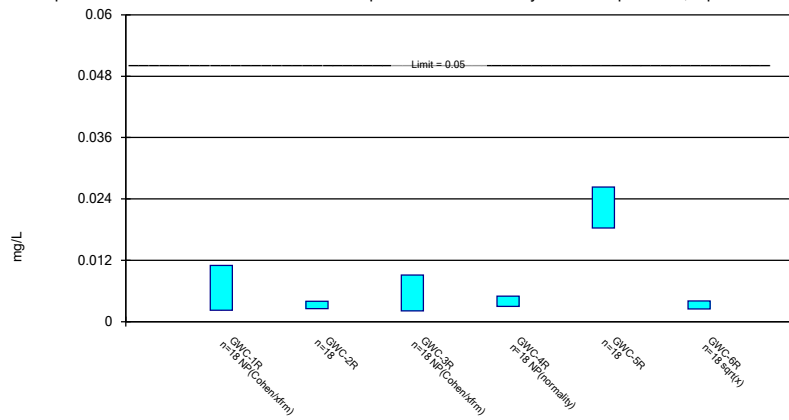
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 10/29/2021 7:08 AM View: Confidence Intervals
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

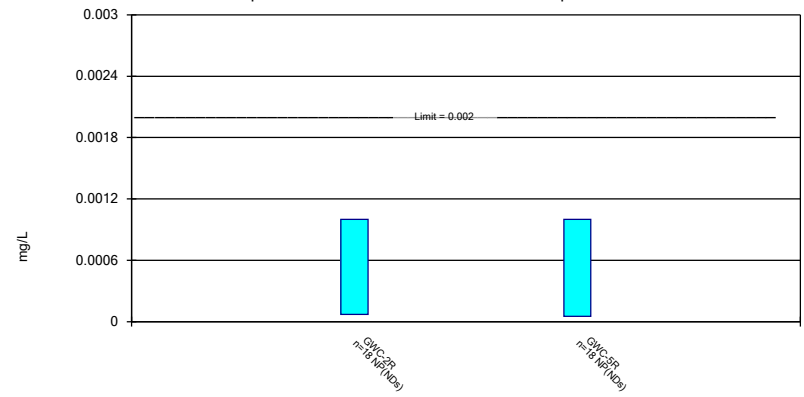
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 10/29/2021 7:08 AM View: Confidence Intervals
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

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



Constituent: Thallium Analysis Run 10/29/2021 7:08 AM View: Confidence Intervals
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/29/2021 7:11 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-4R	GWC-5R
2/16/2016		<0.003	<0.003
2/17/2016	<0.003		
8/31/2016	<0.003		
9/1/2016		0.0014 (J)	<0.003
11/28/2016	<0.003		
11/30/2016		<0.003	
12/1/2016			<0.003
2/22/2017	<0.003		
2/24/2017		<0.003	<0.003
5/10/2017	<0.003	<0.003	<0.003
7/17/2017			<0.003
7/18/2017	<0.003	<0.003	
10/16/2017			<0.003
10/17/2017	<0.003	<0.003	
2/20/2018	<0.003	<0.003	
2/21/2018			<0.003
8/7/2018			<0.003
8/8/2018	<0.003	<0.003	
2/26/2019	<0.003	<0.003	<0.003
6/12/2019	<0.003	0.00028 (J)	
6/13/2019			<0.003
8/19/2019		<0.003	
8/20/2019	<0.003		
8/21/2019			0.00054 (J)
10/9/2019	<0.003		<0.003
10/10/2019		<0.003	
3/18/2020	<0.003	<0.003	<0.003
8/27/2020			<0.003
8/28/2020	<0.003	<0.003	
9/22/2020	0.0017 (J)	0.00053 (J)	
9/23/2020			0.00031 (J)
3/1/2021	<0.003	<0.003	
3/2/2021			<0.003
8/18/2021	<0.003	<0.003	<0.003
Mean	0.002928	0.002623	0.002714
Std. Dev.	0.0003064	0.0008911	0.0008336
Upper Lim.	0.003	0.003	0.003
Lower Lim.	0.0017	0.0014	0.00054

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/29/2021 7:11 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
2/16/2016	<0.005		<0.005	<0.005	<0.005	<0.005
2/17/2016		<0.005				
8/31/2016	<0.005	<0.005	<0.005			
9/1/2016				<0.005	<0.005	<0.005
11/28/2016		<0.005				
11/29/2016	<0.005					<0.005
11/30/2016			<0.005	<0.005		
12/1/2016					<0.005	
2/22/2017		<0.005				
2/23/2017	<0.005		<0.005			<0.005
2/24/2017				<0.005	<0.005	
5/9/2017	0.0005 (J)		<0.005			
5/10/2017		<0.005		<0.005	0.0011 (J)	0.0007 (J)
7/17/2017					0.0013 (J)	
7/18/2017	<0.005	<0.005	<0.005	<0.005		0.001 (J)
10/16/2017					0.0011 (J)	
10/17/2017	0.0009 (J)	<0.005		<0.005		
10/18/2017			<0.005			0.0011 (J)
2/19/2018						<0.005
2/20/2018		<0.005		<0.005		
2/21/2018	<0.005		<0.005		0.00091 (J)	
8/6/2018						0.0023 (J)
8/7/2018	<0.005		<0.005		0.0021 (J)	
8/8/2018		<0.005		<0.005		
2/25/2019						0.00073 (J)
2/26/2019	<0.005	<0.005	<0.005	<0.005	0.00069 (J)	
6/12/2019		<0.005		0.00037 (J)		
6/13/2019	<0.005		0.0016 (J)		0.0012 (J)	0.00068 (J)
8/19/2019				0.00059 (J)		
8/20/2019	0.00044 (J)	0.00075 (J)				0.00072 (J)
8/21/2019			0.00061 (J)		0.00094 (J)	
10/8/2019						0.00056 (J)
10/9/2019	<0.005	<0.005			0.0012 (J)	
10/10/2019			<0.005	<0.005		
3/17/2020	<0.005		0.0016 (J)			<0.005
3/18/2020		<0.005		<0.005	0.0008 (J)	
8/27/2020	0.0011 (J)				0.0016 (J)	0.0011 (J)
8/28/2020		<0.005	<0.005	<0.005		
9/22/2020	<0.005	<0.005	<0.005	<0.005		
9/23/2020					0.00092 (J)	<0.005
3/1/2021	0.0022 (J)	0.0011 (J)		<0.005		
3/2/2021			0.0017 (J)		0.0024 (J)	
3/3/2021						<0.005
8/18/2021	0.0016 (J)	<0.005	0.0028 (J)	<0.005	0.0021 (J)	<0.005
Mean	0.003708	0.004547	0.004073	0.004498	0.002131	0.002994
Std. Dev.	0.001916	0.001319	0.001584	0.001462	0.001646	0.002096
Upper Lim.	0.005	0.005	0.005	0.005	0.0024	0.005
Lower Lim.	0.0011	0.0011	0.0017	0.00059	0.00092	0.00072

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/29/2021 7:11 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
2/16/2016	0.044		0.038	0.032	0.04	0.068
2/17/2016		0.059				
8/31/2016	0.0711	0.0601	0.0286			
9/1/2016				0.0377	0.0345	0.0536
11/28/2016		0.0562				
11/29/2016	0.0754					0.0459
11/30/2016			0.0258	0.0148		
12/1/2016					0.0342	
2/22/2017		0.0481				
2/23/2017	0.0646		0.0278			0.0581
2/24/2017				0.029	0.0347	
5/9/2017	0.0463		0.0308			
5/10/2017		0.0563		0.0182	0.0363	0.0873
7/17/2017					0.0274	
7/18/2017	0.039	0.049	0.0407	0.0187		0.0994
10/16/2017					0.0151	
10/17/2017	0.0349	0.047		0.0157		
10/18/2017			0.049			0.0757
2/19/2018						0.0703
2/20/2018		0.0467		0.0151		
2/21/2018	0.0322		0.0285		0.0174	
8/6/2018						0.076
8/7/2018	0.025		0.029		0.015	
8/8/2018		0.049		0.019		
2/25/2019						0.045
2/26/2019	0.028	0.056	0.026	0.017	0.014	
6/12/2019		0.046		0.017		
6/13/2019	0.033		0.021		0.014	0.062
8/19/2019				0.02		
8/20/2019	0.07	0.05				0.06
8/21/2019			0.02		0.014	
10/8/2019						0.054
10/9/2019	0.054	0.045			0.015	
10/10/2019			0.018	0.018		
3/17/2020	0.031		0.024			0.031
3/18/2020		0.04		0.038	0.015	
8/27/2020	0.072				0.013	0.045
8/28/2020		0.044	0.014	0.026		
9/22/2020	0.068	0.04	0.014	0.026		
9/23/2020					0.012	0.044
3/1/2021	0.063	0.043		0.035		
3/2/2021			0.015		0.011	
3/3/2021						0.043
8/18/2021	0.076	0.033	0.014	0.04	0.013	0.035
Mean	0.05153	0.04824	0.02579	0.02429	0.02087	0.05852
Std. Dev.	0.01848	0.007204	0.009758	0.008831	0.01027	0.01827
Upper Lim.	0.0711	0.0526	0.03169	0.035	0.0345	0.06957
Lower Lim.	0.0322	0.04389	0.01989	0.017	0.013	0.04746

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 10/29/2021 7:11 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
2/16/2016	<0.003		0.00084 (J)	<0.003	0.00048 (J)
2/17/2016		<0.003			
8/31/2016	0.0001 (J)	<0.003	0.0003 (J)		
9/1/2016				<0.003	0.0005 (J)
11/28/2016		<0.003			
11/29/2016	<0.003				
11/30/2016			0.0004 (J)	<0.003	
12/1/2016					0.0003 (J)
2/22/2017		<0.003			
2/23/2017	<0.003		0.0003 (J)		
2/24/2017				<0.003	0.0002 (J)
5/9/2017	8E-05 (J)		0.0002 (J)		
5/10/2017		<0.003		<0.003	0.0003 (J)
7/17/2017					0.0004 (J)
7/18/2017	<0.003	<0.003	0.0002 (J)	<0.003	
10/16/2017					0.0006 (J)
10/17/2017	0.0001 (J)	<0.003		<0.003	
10/18/2017			0.0004 (J)		
2/20/2018		<0.003		<0.003	
2/21/2018	<0.003		<0.003		<0.003
8/7/2018	7.4E-05 (J)		0.00026 (J)		0.00096 (J)
8/8/2018		7E-05 (J)		<0.003	
2/26/2019	7.5E-05 (J)	5.3E-05 (J)	0.00038 (J)	<0.003	0.0015 (J)
6/12/2019		<0.003		<0.003	
6/13/2019	<0.003		0.00051 (J)		0.0015 (J)
8/19/2019				<0.003	
8/20/2019	0.0001 (J)	0.00017 (J)			
8/21/2019			0.00046 (J)		0.0028 (J)
10/9/2019	0.00013 (J)	0.00014 (J)			0.0022 (J)
10/10/2019			0.00039 (J)	<0.003	
3/17/2020	7.6E-05 (J)		0.00095 (J)		
3/18/2020		0.00012 (J)		<0.003	0.0028 (J)
8/27/2020	0.00024 (J)				0.0023 (J)
8/28/2020		0.0002 (J)	0.0005 (J)	<0.003	
9/22/2020	0.00021 (J)	0.00021 (J)	0.00042 (J)	5.8E-05 (J)	
9/23/2020					0.0023 (J)
3/1/2021	0.00023 (J)	0.00032 (J)		6E-05 (J)	
3/2/2021			0.00081		0.0037
8/18/2021	0.0003 (J)	0.00022 (J)	0.0011	0.00011 (J)	0.0033
Mean	0.001095	0.001584	0.0006344	0.002513	0.001619
Std. Dev.	0.001387	0.001459	0.0006449	0.001121	0.001192
Upper Lim.	0.003	0.003	0.0007298	0.003	0.00219
Lower Lim.	8E-05	0.00014	0.0003243	0.00011	0.0007502

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 10/29/2021 7:11 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
2/16/2016	<0.0005		0.00025 (J)	<0.0005	0.00097 (J)
2/17/2016		<0.0005			
8/31/2016	<0.0005	0.0001 (J)	<0.0005		
9/1/2016				0.0001 (J)	0.0005 (J)
11/28/2016		0.0001 (J)			
11/29/2016	8E-05 (J)				
11/30/2016			<0.0005	<0.0005	
12/1/2016					0.0004 (J)
2/22/2017		<0.0005			
2/23/2017	<0.0005		<0.0005		
2/24/2017				<0.0005	0.0003 (J)
5/9/2017	<0.0005		<0.0005		
5/10/2017		<0.0005		<0.0005	0.0003 (J)
7/17/2017					0.0004 (J)
7/18/2017	<0.0005	<0.0005	<0.0005	<0.0005	
10/16/2017					0.0006 (J)
10/17/2017	<0.0005	<0.0005		<0.0005	
10/18/2017			<0.0005		
2/20/2018		<0.0005		<0.0005	
2/21/2018	<0.0005		<0.0005		<0.0005
8/7/2018	<0.0005		<0.0005		0.00083 (J)
8/8/2018		<0.0005		<0.0005	
2/26/2019	<0.0005	<0.0005	0.00011 (J)	<0.0005	0.00081 (J)
6/12/2019		<0.0005		<0.0005	
6/13/2019	<0.0005		0.00021 (J)		0.00073 (J)
8/19/2019				<0.0005	
8/20/2019	<0.0005	<0.0005			
8/21/2019			<0.0005		0.0012 (J)
10/9/2019	<0.0005	<0.0005			0.0011 (J)
10/10/2019			0.00018 (J)	<0.0005	
3/17/2020	<0.0005		0.00037 (J)		
3/18/2020		<0.0005		<0.0005	0.0012 (J)
8/27/2020	0.00012 (J)				0.00091 (J)
8/28/2020		0.00015 (J)	0.00014 (J)	<0.0005	
9/22/2020	0.00016 (J)	0.00016 (J)	0.00013 (J)	<0.0005	
9/23/2020					0.00094 (J)
3/1/2021	0.00013 (J)	0.00016 (J)		<0.0005	
3/2/2021			0.00021 (J)		0.0011
8/18/2021	0.00017 (J)	0.00016 (J)	0.00022 (J)	<0.0005	0.001
Mean	0.0003978	0.0003794	0.0003511	0.0004778	0.0007661
Std. Dev.	0.0001705	0.0001762	0.0001623	9.428E-05	0.0003093
Upper Lim.	0.0005	0.0005	0.0005	0.0005	0.0009532
Lower Lim.	0.00016	0.00016	0.00018	0.0001	0.000579

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/29/2021 7:11 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
2/16/2016	<0.005		0.0017	<0.005	0.0028	0.001 (J)
2/17/2016		<0.005				
8/31/2016	0.0012 (J)	<0.005	0.0013 (J)			
9/1/2016				<0.005	0.0021 (J)	0.0015 (J)
11/28/2016		<0.005				
11/29/2016	0.0009 (J)					0.0014 (J)
11/30/2016			0.001 (J)	0.0013 (J)		
12/1/2016					0.0017 (J)	
2/22/2017		<0.005				
2/23/2017	0.001 (J)		0.0012 (J)			0.0017 (J)
2/24/2017				<0.005	0.0018 (J)	
5/9/2017	0.0011 (J)		0.0016 (J)			
5/10/2017		0.0008 (J)		0.0007 (J)	0.0024 (J)	0.0015 (J)
7/17/2017					0.0017 (J)	
7/18/2017	0.0008 (J)	<0.005	0.0009 (J)	0.0011 (J)		0.0012 (J)
10/16/2017					0.0023 (J)	
10/17/2017	0.001 (J)	<0.005		<0.005		
10/18/2017			0.001 (J)			0.0012 (J)
2/19/2018						<0.005
2/20/2018		<0.005		<0.005		
2/21/2018	<0.005		<0.005		<0.005	
8/6/2018						<0.005
8/7/2018	<0.005		<0.005		0.0024 (J)	
8/8/2018		<0.005		<0.005		
2/25/2019						<0.005
2/26/2019	<0.005	<0.005	<0.005	<0.005	0.0019 (J)	
6/12/2019		<0.005		<0.005		
6/13/2019	0.0009 (J)		0.00073 (J)		0.0018 (J)	0.00089 (J)
8/19/2019				0.00051 (J)		
8/20/2019	0.0011 (J)	<0.005				0.0017 (J)
8/21/2019			0.001 (J)		0.0024 (J)	
10/8/2019						0.0014 (J)
10/9/2019	0.0012 (J)	0.00059 (J)			0.0024 (J)	
10/10/2019			0.0014 (J)	0.00057 (J)		
3/17/2020	0.001 (J)		0.0013 (J)			0.0013 (J)
3/18/2020		0.0004 (J)		<0.005	0.0023 (J)	
8/27/2020	0.0013 (J)				0.0022 (J)	0.0012 (J)
8/28/2020		0.00057 (J)	0.00088 (J)	<0.005		
9/22/2020	0.0012 (J)	<0.005	0.0011 (J)	<0.005		
9/23/2020					0.002 (J)	0.0015 (J)
3/1/2021	0.0012 (J)	<0.005		<0.005		
3/2/2021			0.001 (J)		0.0021 (J)	
3/3/2021						0.0014 (J)
8/18/2021	0.0015 (J)	<0.005	<0.005	<0.005	0.0023 (J)	0.0015 (J)
Mean	0.001967	0.00402	0.002006	0.003843	0.002311	0.001966
Std. Dev.	0.001676	0.001888	0.001665	0.001926	0.0007332	0.001412
Upper Lim.	0.0015	0.005	0.0017	0.005	0.0024	0.0017
Lower Lim.	0.001	0.0008	0.0009	0.0011	0.0018	0.0012

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/29/2021 7:11 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
2/16/2016	<0.005		<0.005	0.0082	<0.005	<0.005
2/17/2016		0.024				
8/31/2016	0.0006 (J)	0.0239	<0.005			
9/1/2016				0.0023 (J)	<0.005	<0.005
11/28/2016		0.0189				
11/29/2016	<0.005					<0.005
11/30/2016			<0.005	0.0008 (J)		
12/1/2016					<0.005	
2/22/2017		0.0184				
2/23/2017	0.0009 (J)		<0.005			<0.005
2/24/2017				0.0025 (J)	<0.005	
5/9/2017	0.0008 (J)		<0.005			
5/10/2017		0.0213		<0.005	<0.005	<0.005
7/17/2017					<0.005	
7/18/2017	0.0032 (J)	0.0261	<0.005	0.0005 (J)		<0.005
10/16/2017					<0.005	
10/17/2017	0.0007 (J)	0.0182		0.0006 (J)		
10/18/2017			<0.005			<0.005
2/19/2018						<0.005
2/20/2018		<0.005		<0.005		
2/21/2018	<0.005		<0.005		<0.005	
8/6/2018						<0.005
8/7/2018	<0.005		<0.005		<0.005	
8/8/2018		0.014		0.001 (J)		
2/25/2019						<0.005
2/26/2019	<0.005	0.029	<0.005	<0.005	<0.005	
6/12/2019		0.013		0.00078 (J)		
6/13/2019	0.00033 (J)		0.01		<0.005	<0.005
8/19/2019				0.001 (J)		
8/20/2019	0.00079 (J)	0.014				<0.005
8/21/2019			0.0016 (J)		0.00034 (J)	
10/8/2019						<0.005
10/9/2019	0.00064 (J)	0.024			0.00031 (J)	
10/10/2019			<0.005	0.00099 (J)		
3/17/2020	0.00054 (J)		0.011			<0.005
3/18/2020		0.019		0.0031 (J)	0.00044 (J)	
8/27/2020	0.00081 (J)				<0.005	<0.005
8/28/2020		0.0072	0.0041 (J)	0.00049 (J)		
9/22/2020	0.0008 (J)	0.0054	0.0021 (J)	0.00039 (J)		
9/23/2020					<0.005	<0.005
3/1/2021	0.00083 (J)	0.00074 (J)		0.0016 (J)		
3/2/2021			0.0086		0.00039 (J)	
3/3/2021						<0.005
8/18/2021	0.0014 (J)	0.00066 (J)	0.01	0.0027 (J)	0.00053 (J)	<0.005
Mean	0.002074	0.01571	0.005689	0.002331	0.003723	0.005
Std. Dev.	0.001962	0.008785	0.002558	0.002179	0.00212	0
Upper Lim.	0.005	0.02103	0.0086	0.0031	0.005	0.005
Lower Lim.	0.00064	0.0104	0.0041	0.0006	0.00044	0.005

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/29/2021 7:11 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
11/28/2016		0.387 (U)				
11/29/2016	0.551 (U)					0.232 (U)
11/30/2016			0.0236 (U)	0.477 (U)		
12/1/2016					0.0588 (U)	
2/22/2017		0.739 (U)				
2/23/2017	0.504 (U)		0.728 (U)			1.18 (U)
2/24/2017				0.305 (U)	0.487 (U)	
5/9/2017	0.434 (U)		0.0367 (U)			
5/10/2017		0.458 (U)		0.0659 (U)	0.289 (U)	0.658 (U)
7/17/2017					0.528 (U)	
7/18/2017	1.37	0.708 (U)	0.237 (U)	0.199 (U)		0.797 (U)
10/16/2017					0.558 (U)	
10/17/2017	0.937 (U)	0.402 (U)		0.294 (U)		
10/18/2017			0.706 (U)			0.239 (U)
2/19/2018						0.973 (D)
2/20/2018		1.64 (D)		1.03 (UD)		
2/21/2018	0.817 (UD)		0.526 (UD)		1.13 (UD)	
8/6/2018						0.866 (U)
8/7/2018	0.578 (U)		0.376 (U)		0.51 (U)	
8/8/2018		2.01		0.0378 (U)		
8/19/2019				0.637 (U)		
8/20/2019	1.25 (U)	1.22				0.409 (U)
8/21/2019			0.774 (U)		1.82	
10/8/2019						0.91 (U)
10/9/2019	0.482 (U)	0.71 (U)			0.498 (U)	
10/10/2019			0.433 (U)	0.525 (U)		
3/17/2020	1.4		2.84			2.5
3/18/2020		1.3		0.866 (U)	0.788 (U)	
8/27/2020	0.413 (U)				0.691 (U)	0.514 (U)
8/28/2020		1.52 (U)	0.494 (U)	0.336 (U)		
9/22/2020	0.7 (U)	2.09	1.24 (U)	0.509 (U)		
9/23/2020					0 (U)	0.96 (U)
3/1/2021	0.966 (U)	0.976		0.349 (U)		
3/2/2021			1.13 (U)		0.686 (U)	
3/3/2021						0.721 (U)
8/18/2021	0.713 (U)	0.583 (U)	0.544 (U)	0.109 (U)	0.437 (U)	0.352 (U)
Mean	0.7939	1.053	0.7206	0.41	0.6058	0.8079
Std. Dev.	0.3436	0.5835	0.7039	0.2905	0.4502	0.5687
Upper Lim.	1.037	1.466	1.073	0.6158	0.8872	1.117
Lower Lim.	0.5505	0.6398	0.2435	0.2042	0.2357	0.4306

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/29/2021 7:11 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	0.05 (J)	0.08 (J)	0.07 (J)			
9/1/2016				0.15 (J)	0.03 (J)	0.28 (J)
11/28/2016		0.03 (J)				
11/29/2016	0.04 (J)					0.05 (J)
11/30/2016			0.03 (J)	0.11 (J)		
12/1/2016					<0.1	
2/22/2017		0.04 (J)				
2/23/2017	0.06 (J)		0.04 (J)			0.07 (J)
2/24/2017				0.08 (J)	0.03 (J)	
5/9/2017	0.06 (J)		<0.1			
5/10/2017		0.05 (J)		0.04 (J)	<0.1	0.02 (J)
7/17/2017					0.37	
7/18/2017	<0.1	<0.1	<0.1	<0.1		<0.1
10/16/2017					<0.1	
10/17/2017	<0.1	<0.1		<0.1		
10/18/2017			0.22 (J)			<0.1
2/19/2018						<0.1
2/20/2018		<0.1		<0.1		
2/21/2018	<0.1		<0.1		<0.1	
8/6/2018						<0.1
8/7/2018	<0.1		<0.1		<0.1	
8/8/2018		<0.1		<0.1		
2/25/2019						<0.1
2/26/2019	<0.1	<0.1	<0.1	<0.1	0.035 (J)	
6/12/2019		0.58		<0.1		
6/13/2019	<0.1		0.58		<0.1	<0.1
8/19/2019				<0.1		
8/20/2019	<0.1	<0.1				<0.1
8/21/2019			0.037 (J)		<0.1	
10/8/2019						<0.1
10/9/2019	<0.1	<0.1			0.35	
10/10/2019			<0.1	<0.1		
3/17/2020	<0.1		0.1 (J)			<0.1
3/18/2020		<0.1		<0.1	<0.1	
8/27/2020	<0.1				0.064 (J)	<0.1
8/28/2020		<0.1	0.097 (J)	<0.1		
9/22/2020	<0.1	<0.1	<0.1	<0.1		
9/23/2020					<0.1	<0.1
3/1/2021	<0.1	<0.1		<0.1		
3/2/2021			0.15		0.094 (J)	
3/3/2021						<0.1
8/18/2021	<0.1	<0.1	0.16	<0.1	0.056 (J)	<0.1
Mean	0.08882	0.1165	0.1285	0.09882	0.1135	0.1012
Std. Dev.	0.02118	0.1218	0.1251	0.02027	0.0967	0.05134
Upper Lim.	0.1	0.58	0.15	0.11	0.35	0.28
Lower Lim.	0.06	0.08	0.07	0.08	0.056	0.07

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/29/2021 7:11 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
2/16/2016	<0.001		<0.001	<0.001	<0.001
2/17/2016		<0.001			
8/31/2016	<0.001	<0.001	0.0001 (J)		
9/1/2016				<0.001	<0.001
11/28/2016		<0.001			
11/29/2016	<0.001				
11/30/2016			<0.001	<0.001	
12/1/2016					<0.001
2/22/2017		<0.001			
2/23/2017	<0.001		<0.001		
2/24/2017				<0.001	<0.001
5/9/2017	<0.001		<0.001		
5/10/2017		0.0001 (J)		<0.001	<0.001
7/17/2017					<0.001
7/18/2017	<0.001	7E-05 (J)	<0.001	<0.001	
10/16/2017					<0.001
10/17/2017	<0.001	<0.001		<0.001	
10/18/2017			8E-05 (J)		
2/20/2018		<0.001		<0.001	
2/21/2018	<0.001		<0.001		<0.001
8/7/2018	<0.001		<0.001		<0.001
8/8/2018		<0.001		<0.001	
2/26/2019	<0.001	<0.001	<0.001	<0.001	<0.001
6/12/2019		<0.001		<0.001	
6/13/2019	<0.001		<0.001		<0.001
8/19/2019				<0.001	
8/20/2019	<0.001	6.1E-05 (J)			
8/21/2019			8.2E-05 (J)		7E-05 (J)
10/9/2019	5.2E-05 (J)	5.7E-05 (J)			5.9E-05 (J)
10/10/2019			<0.001	<0.001	
3/17/2020	<0.001		0.00015 (J)		
3/18/2020		<0.001		<0.001	7.9E-05 (J)
8/27/2020	6.7E-05 (J)				4.9E-05 (J)
8/28/2020		8.4E-05 (J)	5.4E-05 (J)	<0.001	
9/22/2020	<0.001	8.2E-05 (J)	6.4E-05 (J)	4.1E-05 (J)	
9/23/2020					0.00019 (J)
3/1/2021	<0.001	7E-05 (J)		<0.001	
3/2/2021			9.6E-05 (J)		5.4E-05 (J)
8/18/2021	<0.001	<0.001	<0.001	<0.001	<0.001
Mean	0.0008955	0.0006402	0.0006459	0.0009467	0.0006945
Std. Dev.	0.0003042	0.0004642	0.0004571	0.000226	0.0004455
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	6.7E-05	7E-05	8.2E-05	4.1E-05	7E-05

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/29/2021 7:11 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	0.0024 (J)	<0.03	<0.03			
9/1/2016				<0.03	<0.03	<0.03
11/28/2016		<0.03				
11/29/2016	<0.03					<0.03
11/30/2016			<0.03	<0.03		
12/1/2016					<0.03	
2/22/2017		0.0036 (J)				
2/23/2017	<0.03		<0.03			0.0028 (J)
2/24/2017				<0.03	<0.03	
5/9/2017	0.002 (J)		<0.03			
5/10/2017		0.0035 (J)		<0.03	<0.03	0.0054 (J)
7/17/2017					<0.03	
7/18/2017	<0.03	0.0035 (J)	<0.03	<0.03		0.002 (J)
10/16/2017					<0.03	
10/17/2017	0.0016 (J)	0.0035 (J)		<0.03		
10/18/2017			<0.03			0.0026 (J)
2/19/2018						<0.03
2/20/2018		<0.03		<0.03		
2/21/2018	0.0014 (J)		<0.03		<0.03	
8/6/2018						<0.03
8/7/2018	0.001 (J)		<0.03		<0.03	
8/8/2018		0.0031 (J)		<0.03		
8/19/2019				0.00094 (J)		
8/20/2019	0.0012 (J)	0.0043 (J)				0.002 (J)
8/21/2019			<0.03		0.0015 (J)	
10/8/2019						0.0021 (J)
10/9/2019	0.0013 (J)	0.0047 (J)			0.0014 (J)	
10/10/2019			<0.03	0.0013 (J)		
3/17/2020	0.00094 (J)		0.0012 (J)			0.0018 (J)
3/18/2020		0.0053 (J)		<0.03	0.0017 (J)	
8/27/2020	0.0017 (J)				0.0013 (J)	0.0083 (J)
8/28/2020		0.0047 (J)	<0.03	0.0011 (J)		
9/22/2020	0.0015 (J)	0.0042 (J)	<0.03	0.0013 (J)		
9/23/2020					0.0012 (J)	0.0023 (J)
3/1/2021	0.0015 (J)	0.0039 (J)		<0.03		
3/2/2021			0.00088 (J)		0.0016 (J)	
3/3/2021						0.0018 (J)
8/18/2021	0.0019 (J)	0.0049 (J)	0.001 (J)	0.00085 (J)	0.0016 (J)	0.0016 (J)
Mean	0.007229	0.00928	0.02421	0.02037	0.01669	0.01018
Std. Dev.	0.01179	0.01074	0.012	0.0141	0.01473	0.01249
Upper Lim.	0.03	0.03	0.03	0.03	0.03	0.03
Lower Lim.	0.0012	0.0035	0.0012	0.0011	0.0014	0.0018

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 10/29/2021 7:11 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
2/16/2016	<0.0002		1.34E-05 (J)	<0.0002	<0.0002	1.13E-05 (J)
2/17/2016		<0.0002				
8/31/2016	<0.0002	<0.0002	<0.0002			
9/1/2016				<0.0002	<0.0002	<0.0002
11/28/2016		<0.0002				
11/29/2016	<0.0002					<0.0002
11/30/2016			<0.0002	<0.0002		
12/1/2016					<0.0002	
2/22/2017		<0.0002				
2/23/2017	<0.0002		<0.0002			<0.0002
2/24/2017				<0.0002	<0.0002	
5/9/2017	<0.0002		<0.0002			
5/10/2017		<0.0002		<0.0002	<0.0002	<0.0002
7/17/2017					<0.0002	
7/18/2017	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
10/16/2017					<0.0002	
10/17/2017	<0.0002	<0.0002		<0.0002		
10/18/2017			<0.0002			<0.0002
2/19/2018						<0.0002
2/20/2018		<0.0002		<0.0002		
2/21/2018	<0.0002		<0.0002		<0.0002	
8/6/2018						<0.0002
8/7/2018	<0.0002		<0.0002		<0.0002	
8/8/2018		<0.0002		<0.0002		
2/25/2019						6.7E-05 (J)
2/26/2019	5.9E-05 (J)	7.1E-05 (J)	6.4E-05 (J)	5.8E-05 (J)	6E-05 (J)	
6/12/2019		<0.0002		<0.0002		
6/13/2019	<0.0002		<0.0002		<0.0002	<0.0002
8/19/2019				<0.0002		
8/20/2019	<0.0002	<0.0002				<0.0002
8/21/2019			<0.0002		<0.0002	
10/8/2019						<0.0002
10/9/2019	<0.0002	<0.0002			<0.0002	
10/10/2019			0.00043 (J)	<0.0002		
5/6/2020	<0.0002					<0.0002
5/7/2020		<0.0002	<0.0002	<0.0002	<0.0002	
8/27/2020	<0.0002				<0.0002	<0.0002
8/28/2020		<0.0002	<0.0002	<0.0002		
9/22/2020	<0.0002	<0.0002	<0.0002	<0.0002		
9/23/2020					<0.0002	<0.0002
3/1/2021	<0.0002	<0.0002		<0.0002		
3/2/2021			<0.0002		<0.0002	
3/3/2021						<0.0002
8/18/2021	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Mean	0.0001922	0.0001928	0.0001949	0.0001921	0.0001922	0.0001821
Std. Dev.	3.323E-05	3.041E-05	7.887E-05	3.347E-05	3.3E-05	5.289E-05
Upper Lim.	0.0002	0.0002	0.00043	0.0002	0.0002	0.0002
Lower Lim.	5.9E-05	7.1E-05	6.4E-05	5.8E-05	6E-05	6.7E-05

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/29/2021 7:11 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
2/16/2016	<0.01		<0.01	0.0047 (J)	0.022	<0.01
2/17/2016		<0.01				
8/31/2016	0.0039 (J)	0.0029 (J)	0.0038 (J)			
9/1/2016				0.0132	0.0212	0.002 (J)
11/28/2016		0.0019 (J)				
11/29/2016	0.0033 (J)					0.0017 (J)
11/30/2016			0.0054 (J)	0.0046 (J)		
12/1/2016					0.0234	
2/22/2017		0.0015 (J)				
2/23/2017	0.0097 (J)		0.002 (J)			0.0018 (J)
2/24/2017				0.0108	0.0154	
5/9/2017	0.0066 (J)		<0.01			
5/10/2017		0.0016 (J)		0.0054 (J)	0.0152	0.0023 (J)
7/17/2017					0.0136	
7/18/2017	0.0021 (J)	0.0024 (J)	0.0027 (J)	0.0047 (J)		0.0046 (J)
10/16/2017					0.0242	
10/17/2017	0.003 (J)	0.0028 (J)		0.004 (J)		
10/18/2017			0.0047 (J)			0.0037 (J)
2/19/2018						<0.01
2/20/2018		<0.01		<0.01		
2/21/2018	<0.01		<0.01		0.0127	
8/6/2018						0.0047 (J)
8/7/2018	<0.01		0.0016 (J)		0.021	
8/8/2018		0.0025 (J)		0.0041 (J)		
2/25/2019						0.0051 (J)
2/26/2019	0.0014 (J)	0.003 (J)	0.002 (J)	0.0027 (J)	0.024	
6/12/2019		0.0034 (J)		0.0029 (J)		
6/13/2019	<0.01		0.0089 (J)		0.027	0.0048 (J)
8/19/2019				0.003 (J)		
8/20/2019	0.0022 (J)	0.0032 (J)				0.0039 (J)
8/21/2019			0.004 (J)		0.037	
10/8/2019						0.0031 (J)
10/9/2019	0.0023 (J)	0.0026 (J)			0.034	
10/10/2019			0.0021 (J)	0.0024 (J)		
3/17/2020	0.0017 (J)		0.0096 (J)			0.0026 (J)
3/18/2020		0.0032 (J)		0.0046 (J)	0.028	
8/27/2020	0.011				0.021	0.0027 (J)
8/28/2020		0.0037 (J)	0.0045 (J)	0.0031 (J)		
9/22/2020	0.012	0.0056 (J)	0.0091 (J)	0.0032 (J)		
9/23/2020					0.026	0.0031 (J)
3/1/2021	0.011	0.0043 (J)		0.0041 (J)		
3/2/2021			0.012		0.019	
3/3/2021						0.002 (J)
8/18/2021	0.019	0.0042 (J)	0.017	0.0046 (J)	0.017	0.0016 (J)
Mean	0.006067	0.003267	0.0058	0.004839	0.02232	0.003317
Std. Dev.	0.004707	0.001178	0.004065	0.002778	0.006591	0.001294
Upper Lim.	0.011	0.003979	0.0091	0.005	0.0263	0.004023
Lower Lim.	0.0022	0.002554	0.0021	0.003	0.01833	0.002459

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 10/29/2021 7:11 AM View: Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-5R
2/16/2016		<0.001
2/17/2016	7E-05 (J)	
8/31/2016	<0.001	
9/1/2016		<0.001
11/28/2016	<0.001	
12/1/2016		<0.001
2/22/2017	<0.001	
2/24/2017		<0.001
5/10/2017	<0.001	<0.001
7/17/2017		<0.001
7/18/2017	<0.001	
10/16/2017		<0.001
10/17/2017	<0.001	
2/20/2018	<0.001	
2/21/2018		<0.001
8/7/2018		<0.001
8/8/2018	<0.001	
2/26/2019	<0.001	<0.001
6/12/2019	<0.001	
6/13/2019		<0.001
8/20/2019	<0.001	
8/21/2019		5.3E-05 (J)
10/9/2019	<0.001	<0.001
3/18/2020	<0.001	<0.001
8/27/2020		<0.001
8/28/2020	<0.001	
9/22/2020	<0.001	
9/23/2020		<0.001
3/1/2021	<0.001	
3/2/2021		<0.001
8/18/2021	<0.001	<0.001
Mean	0.0009483	0.0009474
Std. Dev.	0.0002192	0.0002232
Upper Lim.	0.001	0.001
Lower Lim.	7E-05	5.3E-05

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