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Georgia Power

2023 Annual Groundwater Monitoring and Corrective Action Report

Plant Yates – Gypsum Landfill

Permit 038-016D(CCR)

Newnan, Georgia

July 31, 2023

2023 Annual Groundwater Monitoring and Corrective Action Report

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

July 31, 2023

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Summary

This summary of the 2023 Annual Monitoring and Corrective Action Report provides the status of groundwater monitoring and corrective action program July 2022 through June 2023 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 6[1] of the U.S. Environmental Protection Agency (USEPA) Coal Combustion Residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant Yates is located at 708 Dyer Road, approximately 8 miles northwest of Newnan and 13 miles southeast of Carrollton in Coweta County, Georgia. Plant Yates originally operated seven coal-fired steam generating units. Five of the units were retired in 2015, and two units were converted from coal to natural gas. CCR 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.

Plant Yates and the site

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 2023 annual reporting period, Arcadis conducted a groundwater sampling event in August 2022 and February 2023. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR rule, groundwater results were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III[2] parameters in wells provided in the table below. There were no statistically significant levels (SSLs) for Appendix IV[3] parameters[4].

Appendix III Parameter	August 2022	February 2023
Boron	GWC-2R, GWC-4R	GWC-2R, GWC-4R

[1] 80 FR 21468, Apr. 17, 2015, as amended at 81 FR 51807, Aug. 5, 2016; 83 FR 36452, July 30, 2018; 85 FR 53561, Aug. 28, 2020
[2] Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)
[3] Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228.
[4] A statistically significant level SSL-related constituent is determined by comparing the confidence intervals developed to either the constituent's MCL, if available, the USEPA RSL if no MCL is available, or the calculated background interwell prediction limit.

Appendix III Parameter	August 2022	February 2023
Calcium	GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R	GWC-1R, GWC-2R, GWC-4R, GWC-5R
Chloride	GWC-2R, GWC-4R	GWC-2R, GWC-4R
Sulfate	GWC-1R, GWC-2R, GWC-5R, GWC-6R	GWC-1R, GWC-2R, GWC-5R,
Total Dissolved Solids	GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R	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 2023 Annual Groundwater Monitoring and Corrective Action Report, 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 [CFR] 257 Subpart D), specifically § 257.90(e), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Arcadis, U.S., Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4.01.

Arcadis U.S., Inc.

7.31.23

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

Date

1 Introduction

This 2023 Annual 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 2022 through June 2023. This report was prepared in accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residuals (CCR) Rule (40 Code of Federal Regulations [CFR] 257 Subpart D) and the Georgia Environmental Protection Division (GAEPD) Rules for Solid Waste Management 391-3-4-.10. Groundwater monitoring requirements for the site are specified by GAEPD Rule 391-3-4-.10(6)(a), which also incorporates the USEPA CCR Rule. For ease of reference, the USEPA CCR Rules are cited within this report.

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 semiannual monitoring events 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)). The permit provides for a discontinuation of groundwater sampling on August 15, 2024 if Appendix IV constituents do not statistically exceed groundwater protection standards (GWPS). 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 from July to June 2023 and presents the status of the monitoring program. Groundwater sampling was performed in accordance with 40 CFR § 257.93. Samples were collected from each well in the certified monitoring system shown on **Figure 3**.

Table 2 summarizes groundwater sampling events conducted by Arcadis at the site during this reporting period. During the sampling events, 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)). During the sampling events, 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 these periods that required corrective actions.

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. Pursuant to 40 CFR §§ 257.95(b) and 257.95(d)(1), groundwater samples collected in August 2022 and February 2023 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 2022 and February 2023 monitoring events were summarized in **Table 4**. Sitewide and Gypsum Landfill potentiometric surface maps for August 2022 are provided on **Figures 4 and 5**, respectively**.** Sitewide and Gypsum Landfill potentiometric surface maps for February 2023 are provided on **Figures 6 and 7**, respectively**.** 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 0.2 foot per day (73 feet per year) to 0.48 foot per day (175 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;
- ± 5% for specific conductance;
- Turbidity measurements less than 5 nephelometric turbidity units (NTU). If turbidity remains between 5 and 10 NTU after three hours of purging and all other parameters have stabilized, the well could be sampled;
- ±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 assessment events 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 events. Analytical methods used for groundwater sample analysis are listed on the analytical laboratory reports included in **Appendix A**.

Analytical data from the semiannual sampling for the Gypsum Landfill and the upgradient wells collected in compliance with the CCR Rule are summarized in **Tables 6a and 6b**. Additional geochemical parameters (i.e., alkalinity, cations) were collected during the February 2023 event; the data are summarized in **Tables 6c and 6d**. 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 reports, prepared by Arcadis and included in **Appendix A,** summarize the validation actions and applicable interpretation.

The purpose of the data quality evaluation was to determine the reliability of the chemical analyses and the accuracy and precision of information acquired from the laboratory. Data quality was assessed through the review and evaluation of field sampling activities, quality control samples, and data associated with the chemical analytical results. The 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 2022. 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 permit-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. When data contained greater than 50 percent non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits are were used. The confidence and coverage levels for non-parametric tolerance limits depend on the number of background samples. The background limits were then used when determining the Groundwater Protection Standards (GWPS) established under 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a).

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

- The maximum contaminant level (MCL) established under 40 CFR §§ 141.62 and 141.66;
- For the following constituents:
  - Cobalt 0.006 milligram per liter (mg/L)
  - Lead 0.015 mg/L
  - Lithium 0.040 mg/L
  - Molybdenum 0.100 mg/L.
- The background level for constituents for which the background level is higher than the MCL or rule identified GWPS.

USEPA revised the federal CCR Rule on July 30, 2018, providing GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR 257.95(h)(2). On February 22, 2022, GA EPD updated the Rules for Solid Waste Management 391-3-4-.10(6) to incorporate updated Federal GWPS where an MCL has not been established. These levels were specified for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L), except when site specific background concentrations of these constituents are higher.

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 2022 and February 2023 sampling event along with the GWPS.

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV parameters in each downgradient well. Those confidence intervals were compared to the GWPS. 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 in downgradient wells calculated from the August 2022 and February 2023 sampling event are listed below.

- Selenium: GWC-1R (August 2022 and February 2023) - The concentration of selenium (0.030 mg/L in August 2022 and 0.025 mg/L in February 2023) exceeded the intrawell PL of 0.019 mg/L. While a PL exceedance was noted for selenium for GWC-1R, the concentration at this well is below its respective GWPS of 0.05 mg/L.
- Arsenic: GWC-5R (February 2023) – The concentration of arsenic (0.0054 mg/L) exceeded the intrawell PL of 0.005 mg/L (which is also the background concentration). The concentration at this well is below its respective GWPS of 0.01 mg/L.
- Cadmium: GWC-5R (February 2023) – The concentration of cadmium (0.0013 mg/L) exceeded the intrawell PL of 0.00114 mg/L. The concentration at this well is below the respective GWPS of 0.005 mg/L.

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 2022 and February 2023 Appendix IV data from 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 2023 Annual Groundwater Monitoring and Corrective Action Report was prepared to fulfill the requirements of USEPA's CCR Rule 40 CFR § 257.95 and GAEPD Rule 391-3-4-.10. Statistical evaluations of the groundwater monitoring data for the site identified SSIs of Appendix I and III constituents.

The next assessment monitoring event is scheduled for August 2023. 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
2023 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill

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	Detection
GWC-2R	10/19/2010	769.76	44.00	725.76	33.70	736.06	Detection
GWC-3R	5/11/2011	775.25	38.45	736.80	28.15	747.10	Detection
GWC-4R	10/20/2010	757.48	30.20	727.28	19.90	737.58	Detection
GWC-5R	5/11/2011	782.45	42.35	740.10	32.05	750.40	Detection
GWC-6R	8/11/2009	788.98	55.25	733.73	41.94	747.04	Detection

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
2023 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill

Well	Hydraulic Location	Semiannual Assessment	
		August 2022	February 2023
GWA-2	Upgradient	X	X
GWC-1R	Downgradient	X	X
GWC-2R	Downgradient	X	X
GWC-3R	Downgradient	X	X
GWC-4R	Downgradient	X	X
GWC-5R	Downgradient	X	X
GWC-6R	Downgradient	X	X

Notes

All wells analyzed for Appendix I, II, III and IV.

Appendix I = Permit specified constituents for Detection Monitoring - 40 CFR Part 258 Appendix I

Appendix II = Permit specified constituents for Assessment Monitoring - 40 CFR Part 258 Appendix II

Appendix III = Consituents 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
2023 Annual 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
2023 Annual 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)
Downgradient Wells - August 2022				
GWC-1R	8/29/2022	773.27	22.98	750.29
GWC-2R	8/29/2022	769.76	28.53	741.23
GWC-3R	8/29/2022	775.25	28.05	747.20
GWC-4R	8/29/2022	757.48	16.25	741.23
GWC-5R	8/29/2022	782.45	29.02	753.43
GWC-6R	8/29/2022	788.98	34.68	754.30
Upgradient Wells - August 2022				
YGWA-4I	8/29/2022	784.21	24.06	760.15
YGWA-5I	8/29/2022	784.54	20.63	763.91
YGWA-5D	8/29/2022	784.53	21.87	762.66
YGWA-17S	8/29/2022	783.05	13.45	769.60
YGWA-18S	8/29/2022	790.57	21.58	768.99
YGWA-18I	8/29/2022	790.57	25.58	764.99
YGWA-20S	8/29/2022	767.12	11.64	755.48
YGWA-21I	8/29/2022	783.70	31.73	756.10
YGWA-39	8/29/2022	818.19	17.72	800.47
YGWA-40	8/29/2022	815.73	23.64	792.09
YGWA-1I	8/29/2022	836.60	37.21	799.39
YGWA-1D	8/29/2022	837.25	49.37	787.88
YGWA-2I	8/29/2022	866.25	44.49	821.76
YGWA-3I	8/29/2022	796.55	53.39	743.16
YGWA-3D	8/29/2022	796.78	30.43	766.35
YGWA-14S	8/29/2022	748.76	20.18	728.58
YGWA-30I	8/29/2022	762.58	43.83	718.75
YGWA-47	8/29/2022	758.22	28.16	730.06
GWA-2	8/29/2022	805.62	36.23	769.39
Downgradient Wells - February 2023				
GWC-1R	8/29/2022	773.27	22.96	750.31
GWC-2R	8/29/2022	769.76	26.94	742.82
GWC-3R	8/29/2022	775.25	28.53	746.72
GWC-4R	8/29/2022	757.48	15.91	741.57
GWC-5R	8/29/2022	782.45	29.44	753.01
GWC-6R	8/29/2022	788.98	36.00	752.98
Upgradient Wells - February 2023				
YGWA-4I	8/29/2022	784.21	23.64	760.57
YGWA-5I	8/29/2022	784.54	19.18	765.36
YGWA-5D	8/29/2022	784.53	19.36	765.17
YGWA-17S	8/29/2022	783.05	11.57	771.48
YGWA-18S	8/29/2022	790.57	20.73	769.84

Table 4
Summary of Groundwater Elevations
2023 Annual 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)
YGWA-18I	8/29/2022	790.57	23.66	766.91
YGWA-20S	8/29/2022	767.12	10.99	756.13
YGWA-21I	8/29/2022	783.70	30.07	756.10
YGWA-39	8/29/2022	818.19	17.74	800.45
YGWA-40	8/29/2022	815.73	23.02	792.71
YGWA-1I	8/29/2022	836.60	39.05	797.55
YGWA-1D	8/29/2022	837.25	49.84	787.41
YGWA-2I	8/29/2022	866.25	46.06	820.19
YGWA-3I	8/29/2022	796.55	52.27	744.28
YGWA-3D	8/29/2022	796.78	31.84	764.94
YGWA-14S	8/29/2022	748.76	18.58	730.18
YGWA-30I	8/29/2022	762.58	43.98	718.60
YGWA-47	8/29/2022	758.22	35.37	722.85
GWA-2	8/29/2022	805.62	37.46	769.39

Notes

ft bTOC - feet below top of casing

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

Table 5
Groundwater Flow Velocity Calculations
2023 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill

ARCADIS

Equation

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

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	See note 1
	2.91	ft/day	
i_1 = 0.033		unitless	Hydraulic gradient from: GWA-2 to GWC-4R (Aug. 2022) Distance(ft): 866.25 Elevations (ft): GWA-2: 769.39 GWC-4R: 741.23
i_1 = 0.032		unitless	GWA-2 to GWC-4R (Feb. 2023) Distance(ft): 866.25 Elevations (ft): GWA-2: 769.39 GWC-4R: 741.57
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

Aug. 2022

$$v = \frac{(2.91)\ (0.033)}{0.48}$$

v = 0.2 ft/day or 73 ft/year

Feb. 2023

$$v = \frac{(2.91)\ (0.032)}{0.48}$$

v = 0.2 ft/day or 73 ft/year

Groundwater linear velocity using literature porosity value of 0.20

Aug. 2022

$$v = \frac{(2.91)\ (0.033)}{0.20}$$

v = 0.48 ft/day or 175 ft/year

Feb. 2022

$$v = \frac{(2.91)\ (0.032)}{0.20}$$

v = 0.47 ft/day or 172 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 6a
Groundwater Analytical Data
2023 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill

Analyte		Units [1]	GWC-1R 8/30/2022	GWC-1R 2/7/2023	GWC-2R 8/31/2022	GWC-2R 2/8/2023	GWC-3R 8/30/2022	GWC-3R 2/8/2023	GWC-4R 8/30/2022
Appendix III (40 CFR 257)	pH	SU	5.07	6.66	5.23	4.96	4.85	5.21	5.52
	Boron	mg/l	0.015 J	0.015 J	0.19	0.22	0.014 J	< 0.0086	4.4
	Calcium	mg/l	189	179	46.9	48.0	17.5	11.2	55.8
	Chloride	mg/l	5.6	6.2	14.5	12.3	3.1	3.4	146
	Fluoride	mg/l	< 0.050	< 0.050	< 0.050	< 0.050	0.14	0.12	0.050 J
	Sulfate	mg/l	994	922	280	288	76.0	43.3	155
	Total Dissolved Solids	mg/l	1600	1400	510	540	150	101	628
Appendix IV (40 CFR 257)	Antimony	mg/l	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.00094 J
	Arsenic	mg/l	0.0035 J	0.0047 J	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022
	Barium	mg/l	0.058	0.051	0.026	0.027	0.010	0.0089	0.022
	Beryllium	mg/l	0.00037 J	0.00037 J	0.00023 J	0.00025 J	0.00056	0.00033 J	0.000072 J
	Cadmium	mg/l	0.00026 J	0.00020 J	0.00012 J	< 0.00011	0.00016 J	< 0.00011	0.00011 J
	Chromium	mg/l	0.0015 J	0.0020 J	< 0.0011	< 0.0011	< 0.0011	0.0017 J	< 0.0011
	Cobalt	mg/l	0.00087 J	0.00086 J	0.0036 J	0.00052 J	0.0021 J	0.00085 J	0.0020 J
	Fluoride	mg/l	< 0.050	< 0.050	< 0.050	< 0.050	0.14	0.12	0.050 J
	Lead	mg/l	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	mg/l	0.0019 J	0.0023 J	0.0042 J	0.0038 J	< 0.00073	< 0.00073	< 0.00073
	Mercury	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00014 J
	Molybdenum	mg/l	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074
	Radium	pci/l	0.476 U	1.17	1.55	0.453 U	0.884 U	0.0452 U	0.433 U
	Selenium	mg/l	0.030	0.025	0.0042 J	0.0043 J	0.0068	0.0020 J	0.0038 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	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
	Nickel	mg/l	0.0027 J	0.0028 J	< 0.00071	< 0.00071	< 0.00071	< 0.00071	0.0021 J
	Silver	mg/l	< 0.00044	< 0.00044	< 0.00044	< 0.00044	< 0.00044	< 0.00044	< 0.00044
	Vanadium	mg/l	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
	Zinc	mg/l	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070	< 0.0070

Notes:
1. Analytical results are reported in milligrams per liter except for combined radium results, which are reported in picoCuries per liter and pH in standard units.
2. 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.

Laboratory Qualifiers:
J = Estimated concentration above the method detection limit and below the reporting limit.
U = The substance was detected below the Minumum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified as estimated.

Table 6a
Groundwater Analytical Data
2023 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill

Analyte		Units [1]	GWC-4R 2/8/2023	GWC-5R 8/30/2022	GWC-5R 2/7/2023	GWC-6R 8/30/2022	GWC-6R 2/7/2023
Appendix III (40 CFR 257)	pH	SU	5.64	4.86	4.62	5.82	4.81
	Boron	mg/l	2.7	0.058	0.017 J	0.0092 J	< 0.0086
	Calcium	mg/l	39.0	135	112	40.6	30.8
	Chloride	mg/l	121	1.8	2.1	7.5	7.9
	Fluoride	mg/l	0.050 J	0.11	0.077 J	0.064 J	0.070 J
	Sulfate	mg/l	87.8	939	935	174	110
	Total Dissolved Solids	mg/l	718	1570	1370	400	259
Appendix IV (40 CFR 257)	Antimony	mg/l	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	mg/l	< 0.0022	0.0035 J	0.0054	< 0.0022	< 0.0022
	Barium	mg/l	0.034	0.010	0.011	0.028	0.032
	Beryllium	mg/l	0.00013 J	0.0032	0.0025	< 0.000054	< 0.000054
	Cadmium	mg/l	< 0.00011	0.00098	0.0013	< 0.00011	< 0.00011
	Chromium	mg/l	0.0012 J	0.0019 J	0.0028 J	0.0016 J	0.0025 J
	Cobalt	mg/l	0.00060 J	0.00077 J	0.00085 J	< 0.00039	< 0.00039
	Fluoride	mg/l	0.050 J	0.11	0.077 J	0.064 J	0.070 J
	Lead	mg/l	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	mg/l	0.00098 J	0.0014 J	0.0014 J	0.0013 J	0.0017 J
	Mercury	mg/l	0.00020 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	mg/l	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074
	Radium	pci/l	0.453 U	1.36	0.871 U	0.861 U	0.720 U
	Selenium	mg/l	0.0029 J	0.019	0.020	< 0.0014	< 0.0014
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018
Appendix I & II Metals (State Permit) [2]	Copper	mg/l	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
	Nickel	mg/l	< 0.00071	0.00097 J	< 0.00071	< 0.00071	< 0.00071
	Silver	mg/l	< 0.00044	< 0.00044	< 0.00044	< 0.00044	< 0.00044
	Vanadium	mg/l	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
	Zinc	mg/l	< 0.0070	0.022	0.023	< 0.0070	< 0.0070

Notes:
1. Analytical results are reported in milligrams per liter except for combined radium results, which are reported in picoCuries per liter and pH in standard units.
2. 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.

Laboratory Qualifiers:
J = Estimated concentration above the method detection limit and below the reporting limit.
U = The substance was detected below the Minumum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified as estimated.

Table 6b
Upgradient Groundwater Analytical Data
2023 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill

Analyte		Units	GWA-2 8/30/2022	GWA-2 2/7/2023	YGWA-1I 8/31/2022	YGWA-1I 2/7/2023	YGWA-1D 8/30/2022	YGWA-1D 2/7/2023	YGWA-2I 8/30/2022	YGWA-2I 2/7/2023	YGWA-3I 8/31/2022
Appendix III	pH	SU	5.39	5.94	5.64	6.53	7.2	7.86	7.04	6.94	7.49
	Boron	mg/l	< 0.0086	< 0.0086	< 0.043 D3	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086
	Calcium	mg/l	23.5	22.3	1.9	2.2	14.9	15.0	25.4	25.6	23.5
	Chloride	mg/l	6.3	6.1	1.5	1.5	1.3	1.3	1.2	1.1	1.3
	Fluoride	mg/l	0.086 J	0.095 J	0.065 J	0.071 J	0.093 J	0.093 J	0.12	0.12	0.13
	Sulfate	mg/l	101	82.4	4.8	6.6	10.2	10.6	20.1	17.8	13.9
	Total Dissolved Solids	mg/l	244	207	57.0	121	105	131	153	159	137
Appendix IV	Antimony	mg/l	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	mg/l	0.0024 J	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	0.0027 J	< 0.0022	< 0.0022
	Barium	mg/l	0.031	0.034	0.0074	0.21	0.0066	0.14	0.0030 J	0.0026 J	0.0030 J
	Beryllium	mg/l	< 0.000054	< 0.000054	< 0.00027 D3	0.00054	< 0.000054	0.0011	< 0.000054	< 0.000054	< 0.000054
	Cadmium	mg/l	< 0.00011	0.00012 J	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	mg/l	< 0.0011	< 0.0011	< 0.0011	0.0013 J	0.0011 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011
	Cobalt	mg/l	0.075	0.034	0.00085 J	0.0048 J	< 0.00039	0.00097 J	< 0.00039	< 0.00039	< 0.00039
	Lead	mg/l	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	mg/l	0.0025 J	0.0022 J	< 0.0036	0.0029 J	0.013 J	0.0060 J	0.0044 J	0.0047 J	0.022 J
	Mercury	mg/l	< 0.00013	0.00013 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	mg/l	< 0.00074	< 0.00074	0.0055 J	< 0.00074	0.0094 J	< 0.00074	0.0068 J	0.0061 J	0.0068 J
	Combined Radium - 226/228	pCi/l	1.52	1.00	0.490 U	0.661 U	0.827	0.920 U	0.699 U	0.536 U	1.33
	Selenium	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

Notes:

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

Laboratory Qualifiers:

J: Estimated concentration above the method detection limit and below the reporting limit.
U: the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualifited by the laboratory as estimated.

Table 6b
Upgradient Groundwater Analytical Data
2023 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill

Analyte		Units	GWA-2	YGWA-3I	YGWA-3D	YGWA-3D	YGWA-4I	YGWA-4I	YGWA-5I	YGWA-5I	YGWA-5D
			8/30/2022	2/8/2023	8/31/2022	2/8/2023	8/31/2022	2/9/2023	8/30/2022	2/9/2023	8/30/2022
Appendix III	pH	SU	5.39	7.73	7.65	7.88	5.50	6.23	5.00	5.90	7.40
	Boron	mg/l	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	0.0098 J
	Calcium	mg/l	23.5	23.3	28.7	28.9	8.9	9.6	2.5	2.8	24.8
	Chloride	mg/l	6.3	1.1	1.3	1.2	4.4	4.5	4.4	5.0	3.5
	Fluoride	mg/l	0.086 J	0.16	0.42	0.56	0.061 J	0.067 J	< 0.050	< 0.050	0.085 J
	Sulfate	mg/l	101	14.7	6.9	7.5	8.0	8.9	2.4	2.9	5.7
	Total Dissolved Solids	mg/l	244	145	141	144	92.0	124	86.0	59.0	148
Appendix IV	Antimony	mg/l	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	mg/l	0.0024 J	0.0024 J	0.0028 J	0.0030 J	< 0.0022	< 0.0022	< 0.0022	< 0.0022	0.0031 J
	Barium	mg/l	0.031	0.0029 J	0.0048 J	0.0048 J	0.013	0.014	0.017	0.019	0.0079
	Beryllium	mg/l	< 0.000054	< 0.000054	< 0.000054	< 0.000054	< 0.000054	< 0.000054	< 0.000054	< 0.000054	< 0.000054
	Cadmium	mg/l	< 0.00011	0.00013 J	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	mg/l	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0012 J	< 0.0011
	Cobalt	mg/l	0.075	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039
	Lead	mg/l	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	mg/l	0.0025 J	0.018 J	0.021 J	0.023 J	0.013 J	0.014 J	0.0035 J	0.0036 J	0.0068 J
	Mercury	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	mg/l	< 0.00074	0.0065 J	0.011	0.012	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.00089 J
	Combined Radium - 226/228	pCi/l	1.52	1.18	2.12	2.74	0.962	1.12	0.720 U	0.0815 U	5.34
	Selenium	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

Notes:

Analytical results are reported in milligrams per liter except for combined radium results, which are reported in picoCuries per liter and pH in standard units.
Appendix III = Consituents for Detection Monitoring - 40 CFR Part 257 Appendix III.
Appendix IV = Consituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV.
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Laboratory Qualifiers:

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Table 6b
Upgradient Groundwater Analytical Data
2023 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill

Analyte		Units	GWA-2	YGWA-5D	YGWA-14S	YGWA-14S	YGWA-17S	YGWA-17S	YGWA-18I	YGWA-18I	YGWA-18S
			8/30/2022	2/7/2023	8/31/2022	2/8/2023	8/30/2022	2/7/2023	8/30/2022	2/7/2023	8/30/2022
Appendix III	pH	SU	5.39	6.64	5.15	5.39	4.68	5.47	5.82	6.00	5.18
	Boron	mg/l	< 0.0086	< 0.0086	0.015 J	0.015 J	0.013 J	0.014 J	< 0.0086	< 0.0086	0.014 J
	Calcium	mg/l	23.5	26.6	1.3	1.5	3.0	2.9	5.7	5.5	0.77 J
	Chloride	mg/l	6.3	3.3	4.6	4.9	12.0	11.4	7.9	7.4	7.0
	Fluoride	mg/l	0.086 J	0.082 J	0.053 J	0.059 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050
	Sulfate	mg/l	101	5.2	5.8	6.1	4.7	4.9	0.78 J	0.78 J	1.3
	Total Dissolved Solids	mg/l	244	180	51.0	56.0	81.0	78.0	100	96.0	52.0
Appendix IV	Antimony	mg/l	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.0013 J	< 0.00078	< 0.00078	< 0.00078
	Arsenic	mg/l	0.0024 J	0.0030 J	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022
	Barium	mg/l	0.031	0.0075	0.0075	0.0089	0.017	0.017	0.017	0.019	0.012
	Beryllium	mg/l	< 0.000054	< 0.000054	0.00020 J	0.00022 J	0.00010 J	0.000096 J	< 0.000054	< 0.000054	0.000082 J
	Cadmium	mg/l	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	mg/l	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0015 J
	Cobalt	mg/l	0.075	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039
	Lead	mg/l	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	mg/l	0.0025 J	0.0059 J	< 0.00073	< 0.00073	< 0.00073	< 0.00073	0.0036 J	0.0030 J	0.0014 J
	Mercury	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00018 J	< 0.00013	0.00013 J	< 0.00013
	Molybdenum	mg/l	< 0.00074	0.00095 J	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074
	Combined Radium - 226/228	pCi/l	1.52	3.99	0.421 U	0.830 U	1.08	0.367 U	1.01	0.485 U	0.611 U
	Selenium	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

Notes:

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

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Table 6b
Upgradient Groundwater Analytical Data
2023 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill

Analyte		Units	GWA-2	YGWA-18S	YGWA-20S	YGWA-20S	YGWA-21I	YGWA-21I	YGWA-30I	YGWA-30I	YGWA-39
			8/30/2022	2/7/2023	8/31/2022	2/7/2023	8/30/2022	2/7/2023	8/31/2022	2/8/2023	8/31/2022
Appendix III	pH	SU	5.39	5.03	5.38	6.82	6.58	6.94	5.87	6.43	5.30
	Boron	mg/l	< 0.0086	< 0.0086	< 0.043 D3	< 0.0086	0.012 J	< 0.0086	< 0.0086	< 0.0086	0.14
	Calcium	mg/l	23.5	0.79 J	2.4	7.5	7.3	25.6	1.3	1.3	16.3
	Chloride	mg/l	6.3	6.4	2.9	2.4	2.4	1.1	1.8	1.6	6.7
	Fluoride	mg/l	0.086 J	< 0.050	< 0.050	0.10	0.10	0.12	0.060 J	0.064 J	0.065 J
	Sulfate	mg/l	101	1.2	< 0.50	3.8	3.2	17.8	1.1	0.96 J	10.9
	Total Dissolved Solids	mg/l	244	55.0	62.0	163	122	159	33.0 D6	43.0	248
Appendix IV	Antimony	mg/l	< 0.00078	< 0.00078	< 0.00078	< 0.00078	0.0046	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	mg/l	0.0024 J	< 0.0022	< 0.0022	0.0028 J	0.0022 J	< 0.0022	< 0.0022	< 0.0022	0.0029 J
	Barium	mg/l	0.031	0.012	0.011	0.010	0.0085	0.0026 J	0.0068	0.0066	0.035
	Beryllium	mg/l	< 0.000054	0.000071 J	< 0.00027 D3	< 0.000054	< 0.000054	< 0.000054	< 0.000054	< 0.000054	< 0.000054
	Cadmium	mg/l	< 0.00011	< 0.00011	< 0.00011	0.00012 J	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.00044 J
	Chromium	mg/l	< 0.0011	0.0016 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0021 J	< 0.0011
	Cobalt	mg/l	0.075	< 0.00039	< 0.00039	0.014	0.0066	< 0.00039	0.0040 J	0.0031 J	0.00085 J
	Lead	mg/l	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	mg/l	0.0025 J	0.0012 J	< 0.00073	0.0059 J	0.0079 J	0.0047 J	0.0012 J	0.0011 J	0.0065 J
	Mercury	mg/l	< 0.00013	0.00017 J	< 0.00013	0.00017 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	mg/l	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074	0.0061 J	< 0.00074	< 0.00074	0.0036 J
	Combined Radium - 226/228	pCi/l	1.52	0.656 U	0.184 U	1.53	1.27	0.536 U	0.506 U	0.417 U	0.937
	Selenium	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

Notes:

Analytical results are reported in milligrams per liter except for combined radium results, which are reported in picoCuries per liter and pH in standard units.
Appendix III = Consituents for Detection Monitoring - 40 CFR Part 257 Appendix III.
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Table 6b
Upgradient Groundwater Analytical Data
2023 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill

Analyte		Units	GWA-2	YGWA-39	YGWA-40	YGWA-40	YGWA-47	YGWA-47
			8/30/2022	2/7/2023	8/31/2022	2/8/2023	8/31/2022	2/8/2023
Appendix III	pH	SU	5.39	5.49	4.53	5.71	5.32	5.22
	Boron	mg/l	< 0.0086	0.13	0.062	0.057	0.0091 J	0.011 J
	Calcium	mg/l	23.5	16.1	6.2	5.9	9.6	9.2
	Chloride	mg/l	6.3	5.6	6.3	6.9	3.5	3.5
	Fluoride	mg/l	0.086 J	0.076 J	0.050 J	< 0.050	0.065 J	0.077 J
	Sulfate	mg/l	101	9.7	17.9	17.5	48.0	50.5
	Total Dissolved Solids	mg/l	244	224	92.0	115	116	141
Appendix IV	Antimony	mg/l	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	mg/l	0.0024 J	0.0029 J	< 0.0022	< 0.0022	< 0.0022	< 0.0022
	Barium	mg/l	0.031	0.030	0.035	0.037	0.029	0.031
	Beryllium	mg/l	< 0.000054	< 0.000054	0.00025 J	0.00026 J	< 0.000054	< 0.000054
	Cadmium	mg/l	< 0.00011	0.00014 J	< 0.00011	< 0.00011	< 0.00011	0.00032 J
	Chromium	mg/l	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
	Cobalt	mg/l	0.075	0.00066 J	< 0.00039	< 0.00039	0.00096 J	0.0011 J
	Lead	mg/l	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	mg/l	0.0025 J	0.0065 J	< 0.00073	0.00074 J	0.0037 J	0.0037 J
	Mercury	mg/l	< 0.00013	< 0.00013	0.00064	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	mg/l	< 0.00074	0.0045 J	< 0.00074	< 0.00074	< 0.00074	< 0.00074
	Combined Radium - 226/228	pCi/l	1.52	1.41	0.513 U	1.56	0.714 U	0.375 U
	Selenium	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

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 III = Consituents for Detection Monitoring - 40 CFR Part 257 Appendix III.
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Table 6c
Groundwater Analytical Data (Additional Parameters) - February 2023
2023 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill

Analyte	Units	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
		2/7/2023	2/8/2023	2/8/2023	2/8/2023	2/7/2023	2/7/2023
Alkalinity	mg/L as $CaCO_3$	10.3	9.2	8.4	33.3	< 5.0	66.0
Alkalinity, Bicarbonate	mg/L as CaCO3	10.3	9.2	8.4	33.3	< 5.0	66.0
Alkalinity, Carbonate	mg/L as CaCO3	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Magnesium	mg/l	117	39.2	4.0	34.9	160	23.4
Potassium	mg/l	2.7	2.3	0.30	1.4	1.3	1.9
Sodium	mg/l	7.0	17.1	5.0	14.7	11.5	9.0

Notes:
< Analyte was not detected above the laboratory method detection limit (MDL).

Table 6d
Upgradient Groundwater Analytical Data (Additional Parameters) - February 2023
2023 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill

Analyte	Units	GWA-2	YGWA-1I	YGWA-1D	YGWA-2I	YGWA-3I	YGWA-3D	YGWA-4I	YGWA-5I
		2/7/2023	2/7/2023	2/7/2023	2/7/2023	2/8/2023	2/8/2023	2/9/2023	2/9/2023
Alkalinity	mg/L as $CaCO_3$	62.4	20.4	65.4	87.6	92.2	106	57.7	26.4
Alkalinity, Bicarbonate	mg/L as $CaCO_3$	62.4	20.4	65.4	87.6	92.2	106	57.7	26.4
Alkalinity, Carbonate	mg/L as $CaCO_3$	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Magnesium	mg/l	19.3	1.5	1.9	4.1	5.4	3.6	5.3	2.7
Potassium	mg/l	9.5	2.0	4.8	5.1	5.3	3.5	4.1	1.6
Sodium	mg/l	8.1	5.6	11.5	9.0	9.4	9.9	9.9	10.8

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

Table 6d
Upgradient Groundwater Analytical Data (Additional Parameters) - February 2023
2023 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill

Analyte	Units	YGWA-5D	YGWA-18I	YGWA-18S	YGWA-20S	YGWA-21I	YGWA-30I	YGWA-39
		2/7/2023	2/7/2023	2/7/2023	2/7/2023	2/7/2023	2/8/2023	2/7/2023
Alkalinity	mg/L as $CaCO_3$	96.5	36.0	9.3	23.3	78.4	15.4	177
Alkalinity, Bicarbonate	mg/L as $CaCO_3$	96.5	36.0	9.3	23.3	78.4	15.4	177
Alkalinity, Carbonate	mg/L as $CaCO_3$	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Magnesium	mg/l	4.6	3.1	0.91	0.58	3.9	0.92	21.7
Potassium	mg/l	3.7	0.96	0.50	0.55	3.2	0.55	6.6
Sodium	mg/l	9.7	12.6	7.8	8.7	20.4	6.0	28.1

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

Table 6d
Upgradient Groundwater Analytical Data (Additional Parameters) - February 2023
2023 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill

Analyte	Units	YGWA-40	YGWA-47
		2/8/2023	2/8/2023
Alkalinity	mg/L as $CaCO_3$	27.6	37.8
Alkalinity, Bicarbonate	mg/L as $CaCO_3$	27.6	37.8
Alkalinity, Carbonate	mg/L as $CaCO_3$	< 5.0	< 5.0
Magnesium	mg/l	3.4	10
Potassium	mg/l	2.2	3.7
Sodium	mg/l	10.1	11.4

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

Table 7
Background Levels and Groundwater Protection Standards
2023 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill

Constituent	Units	Background	GWPS
August 2022			
Antimony	mg/L	0.0047	0.006
Arsenic	mg/L	0.005	0.010
Barium	mg/L	0.071	2
Beryllium	mg/L	0.0005	0.004
Cadmium	mg/L	0.0005	0.005
Chromium	mg/L	0.0093	0.100
Cobalt	mg/L	0.035 [1]	0.035 [1]
Fluoride	mg/L	0.68	4
Lead	mg/L	0.0013	0.015
Lithium	mg/L	0.03	0.040
Mercury	mg/L	0.0005	0.002
Molybdenum	mg/L	0.014	0.1
Selenium	mg/L	0.005	0.050
Thallium	mg/L	0.001	0.002
Combined Radium - 226/228	pCi/L	6.92 [1]	6.92 [1]
February 2023			
Antimony	mg/L	0.0047	0.006
Arsenic	mg/L	0.005	0.01
Barium	mg/L	0.21	2
Beryllium	mg/L	0.0011	0.004
Cadmium	mg/L	0.00063	0.005
Chromium	mg/L	0.0093	0.1
Cobalt	mg/L	0.035 [1]	0.035 [1]
Fluoride	mg/L	0.68	4
Lead	mg/L	0.0013	0.015
Lithium	mg/L	0.03	0.040
Mercury	mg/L	0.00064	0.002
Molybdenum	mg/L	0.014	0.1
Selenium	mg/L	0.005	0.05
Thallium	mg/L	0.001	0.002
Combined Radium - 226/228	pCi/L	6.92 [1]	6.92 [1]

Notes

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

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.

Acronyms and Abbreviations:

GWPS - Groundwater Protection Standard per 40 CFR §257.95(h).
mg/L - millgrams per liter
pCi/L - picocuries per liter

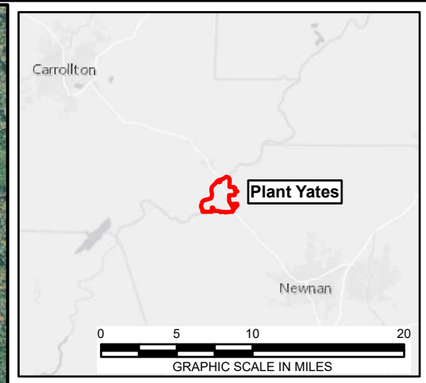
Figures

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

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

FORMER GYPSUM STACK LANDFILL

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



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- PERMITTED UNIT BOUNDARY

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

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

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

PLANT YATES GYPSUM LANDFILL
NEWNAN, GA
2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SITE LOCATION MAP

ARCADIS

FIGURE
1

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

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

YGWA-47
YGWC-52
PZ-09S
PZ-09I
YGWC-44
YGWC-45
FORMER ASH POND 1
GWC-4R
GWC-2R
GWC-1R
GWC-6R
GWC-3R
GWC-5R
GWA-2
FORMER GYPSUM STACK LANDFILL
PZ-53
YGWC-46A
PZ-10I
PZ-10S
YGWA-6I
PZ-06D
YGWA-6S
YGWC-26S
YGWC-26I
AP-2 WEST
YGWC-27S
YGWC-27I
ASH POND 2
YGWC-28I
YGWC-28S
YGWC-29IA
PZ-48
FORMER ASH POND A
YGWC-49
YGWC-24SB
PZ-24IB
PZ-25I
PZ-25S
YGWC-36A
YAMW-1
PZ-35
ASH POND B
YGWA-30I
AP-2 AMAX COVE
PZ-31S
YGWC-50
AMA - PERIMETER ROAD
PZ-13S
PZ-13I
YGWA-14S
PZ-14I
ASH POND B'
PZ-51
YGWC-43
YGWA-17S
R6 ASH DISPOSAL AREA
YGWA-18S
YGWA-18I
YGWA-1S
PZ-01S
YGWA-1D
YAMW-3
YAMW-2
YGWC-42
ASH POND 3
YAMW-4
YGWC-41
YGWA-3I
PZ-03S
YGWA-3D
PZ-37D
PZ-52D
PZ-37
PZ-53D
YGWC-23S
EAST COVE
YGWA-2I
YGWC-38
YAMW-5
ASH MANAGEMENT AREA
YGWA-40
YGWA-39
YGWA-21I
YGWA-20S
SOUTH COVE
PZ-04S
YGWA-4I
YGWA-5I
PZ-05S
YGWA-5D

LEGEND

- SAPROLITE DETECTION MONITORING WELL LOCATION
- TRANSITION DETECTION MONITORING WELL LOCATION
- BEDROCK DETECTION MONITORING WELL LOCATION
- SAPROLITE ASSESSMENT WELL/PIEZOMETER
- TRANSITION ASSESSMENT WELL/PIEZOMETER
- BEDROCK ASSESSMENT WELL/PIEZOMETER
- PERMITTED UNIT BOUNDARY
- AREA WHERE ASH HAS BEEN CERTIFIED REMOVED AS OF 7/31/2023

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

0 450 900 1,800
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES GYPSUM LANDFILL
NEWNAN, GA
2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

PLANT YATES CCR REMOVAL AREAS

ARCADIS

FIGURE
2

84°54'10"W
84°54'0"W
84°53'50"W
33°28'0"N
33°27'50"N

GWC-4R
GWC-2R
GWC-1R
GWC-6R
GWC-3R
FORMER GYPSUM STACK LANDFILL
GWC-5R
GWA-2

LEGEND

- SAPROLITE DETECTION MONITORING
- BEDROCK DETECTION MONITORING
- PERMITTED UNIT BOUNDARY

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

0 112.5 225 450
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

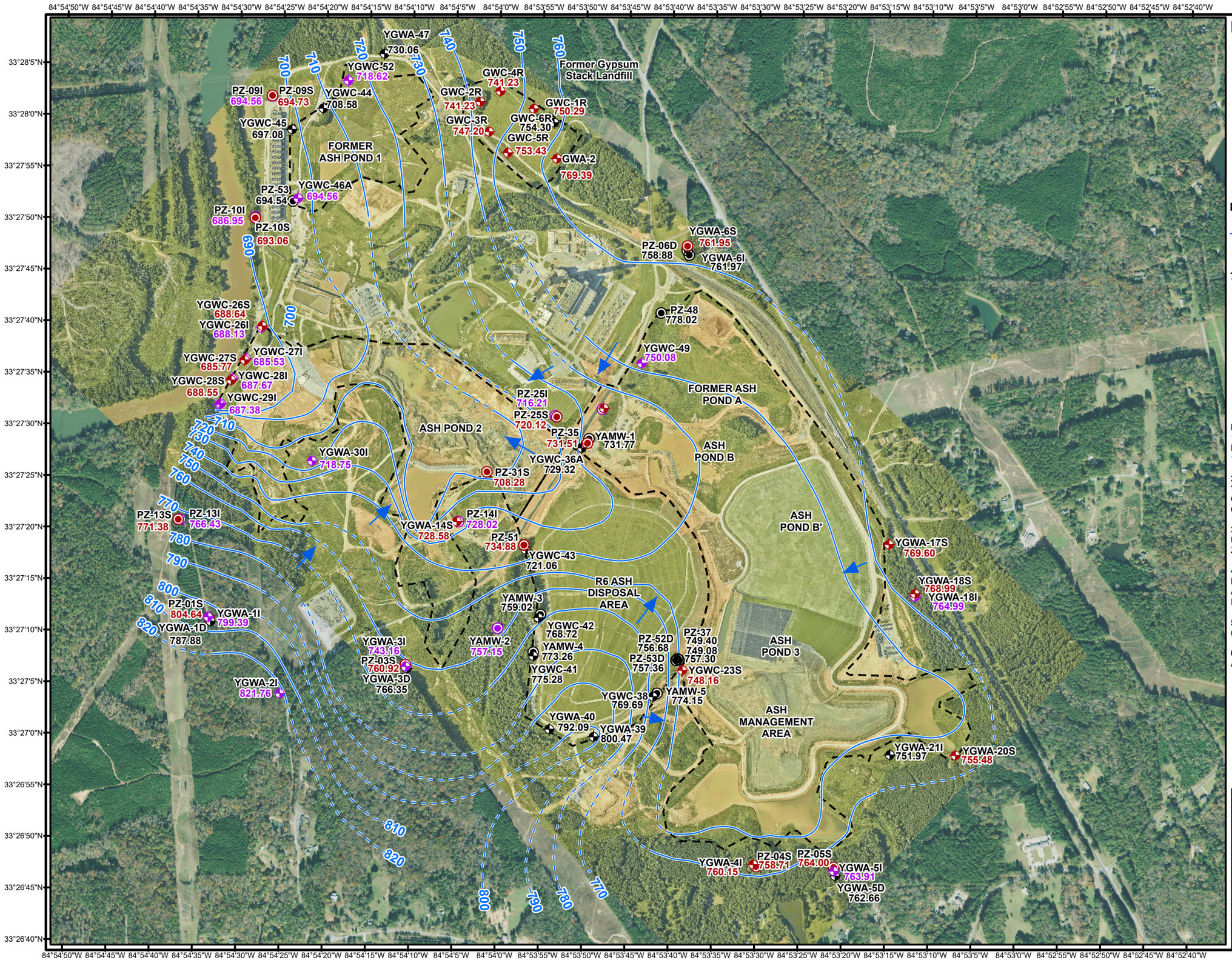
Georgia Power

PLANT YATES GYPSUM LANDFILL
NEWNAN, GA
2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

WELL LOCATION MAP

ARCADIS

FIGURE
3



LEGEND

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

NOTES:

1. SHALLOW GROUNDWATER ELEVATIONS ARE DERIVED FROM SOIL COMPRISED OF SAPROLITE, RANGING FROM 15 - 60 FEET BELOW GROUND SURFACE.

2. BEDROCK WELLS YGWA-40, YGWA-39, YGWC-38, YGWC-41, YGWC-42 USED FOR CONTOURING. ALL OTHER BEDROCK WELLS NOT USED TO CREATE CONTOURS.

3. SAPROLITE WELL GROUNDWATER ELEVATIONS WERE USED FOR CONTOURING FOR SAPROLITE/TRANSITION ZONE/BEDROCK WELL CLUSTER LOCATIONS.

4. AERIAL IMAGE SOURCES: AUGUST 30, 2022 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.

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

6. GROUNDWATER ELEVATIONS COLLECTED ON AUGUST 29, 2022.

0 450 900 1,800

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

PLANT YATES GYPSUM LANDFILL
NEWNAN, GA

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SITEWIDE GROUNDWATER ELEVATION MAP AUGUST 2022

ARCADIS

FIGURE **4**

84°54'10"W
84°54'0"W
84°53'50"W
33°28'0"N
33°27'50"N

GWC-4R
741.23
GWC-2R
741.23
GWC-1R
750.29
GWC-6R
754.30
GWC-3R
474.20
GWC-5R
753.43
GWA-2
769.39
FORMER GYPSUM STACK LANDFILL
745
750
755
760
765

LEGEND

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

NOTES:
1. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).

AERIAL IMAGE SOURCES: AUGUST 30, 2022 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.

0 112.5 225 450
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

PLANT YATES GYPSUM LANDFILL
NEWNAN, GA
2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

GROUNDWATER ELEVATION MAP AUGUST 2022

ARCADIS

FIGURE
5

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

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

YGWA-47 722.85
YGWC-52 717.85
YGWC-44 708.25
PZ-09I 696.45
PZ-09S 696.60
YGWC-45 697.38
FORMER ASH POND 1
PZ-53 695.39
YGWC-46A 695.76
PZ-10I 698.41
PZ-10S 694.11
GWC-4R 741.57
GWC-2R 742.82
GWC-3R 746.72
GWC-1R 750.31
GWC-6R 752.98
GWC-5R 753.01
GWA-2 768.16
Former Gypsum Stack Landfill
YGWA-6S 762.52
PZ-06D 758.97
YGWA-6I 762.59
PZ-48 758.11
YGWC-49 749.41
YGWC-24SB 737.43
PZ-24IB 737.03
FORMER ASH POND A
YGWC-26S 691.73
YGWC-26I 690.52
YGWC-27S 689.58
YGWC-27I 689.27
YGWC-28I
YGWC-28S
YGWC-29IA 691.79
PZ-25I 715.82
PZ-25S 719.53
PZ-35 732.29
YAMW-1 732.51
YGWC-36A 728.88
ASH POND 2
YGWA-30I 717.84
PZ-31S 707.81
YGWC-50 714.77
ASH POND B
PZ-13S 770.69
PZ-13I 766.66
YGWA-14S 729.06
PZ-14I 728.39
PZ-51 734.53
YGWC-43 720.96
ASH POND B'
YGWA-17S 771.48
YGWA-18S 769.84
YGWA-18I 766.91
R6 ASH DISPOSAL AREA
YAMW-3 758.46
PZ-01S 803.18
YGWA-1I 797.55
YGWA-1D 787.41
YGWC-42 768.32
YAMW-2 758.07
YGWA-3I 744.28
PZ-03S 759.04
YGWA-3D 764.94
YGWA-2I 820.19
YAMW-4 772.20
YGWC-41 773.99
PZ-52D 756.23
PZ-53D 757.24
PZ-37 749.05
PZ-37D 757.19
YGWC-23S 748.68
ASH POND 3
YGWC-38 768.02
YAMW-5 772.53
YGWA-40 792.71
YGWA-39 800.45
ASH MANAGEMENT AREA
YGWA-21I 753.63
YGWA-20S 756.13
YGWA-4I 760.57
PZ-04S 759.09
PZ-05S 765.51
YGWA-5I 765.36
YGWA-5D 765.17

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

LEGEND

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

NOTES:

1. SHALLOW GROUNDWATER ELEVATIONS ARE DERIVED FROM SOIL COMPRISED OF SAPROLITE, RANGING FROM 15 - 60 FEET BELOW GROUND SURFACE.

2. BEDROCK WELLS YGWA-40, YGWA-39, YGWC-38, YGWC-41, YGWC-42 USED FOR CONTOURING. ALL OTHER BEDROCK WELLS NOT USED TO CREATE CONTOURS.

3. SAPROLITE WELL GROUNDWATER ELEVATIONS WERE USED FOR CONTOURING FOR SAPROLITE/TRANSITION ZONE/BEDROCK WELL CLUSTER LOCATIONS.

4. AERIAL IMAGE SOURCES: JANUARY 2023 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.

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

6. GROUNDWATER ELEVATIONS COLLECTED ON FEBRUARY 6, 2023.

7.YGWC-28S AND YGWC-28I WERE INACCESSIBLE DURING THE GAUGING EVENT DUE TO SURROUNDING CONSTRUCTION ACTIVITIES AND RAILINGS FOR WELL ACCESS WELL HAD NOT BEEN CONSTRUCTED.

0 450 900 1,800
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES GYPSUM LANDFILL
NEWNAN, GA
2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SITEWIDE GROUNDWATER ELEVATION MAP FEBRUARY 2023

ARCADIS

FIGURE
6

LEGEND

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

NOTES:
1. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).

AERIAL IMAGE SOURCES: JANUARY 2023 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.

0 112.5 225 450

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

PLANT YATES GYPSUM LANDFILL
NEWNAN, GA

2023 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

GROUNDWATER ELEVATION MAP FEBRUARY 2023

ARCADIS

FIGURE
7

Appendix A

Laboratory Analytical Reports and Data Validation Reports

August 2022

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92623290 and 92623294

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

Report #47081R
Review Level: Tier II
Project: 30143622.3

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92623290 and 92623294 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-6R	92623290001 92623294001	Water	8/30/2022		X	X	X
GWC-1R	92623290002 92623294002	Water	8/30/2022		X	X	X
GWC-4R	92623290003 92623294003	Water	8/30/2022		X	X	X
GLF-DUP-1	92623290004 92623294004	Water	8/30/2022	GWC-4R	X	X	X
GWC-5R	92623290005 92623294005	Water	8/30/2022		X	X	X
GWC-3R	92623290006 92623294006	Water	8/30/2022		X	X	X
GLF-EB-1	92623290007 92623294007	Water	8/30/2022		X	X	X
GLF-FB-1	92623290008 92623294008	Water	8/30/2022		X	X	X
GWC-2R	92623290009 92623294009	Water	8/31/2022		X	X	X

Notes:

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

Analytical Data Package Documentation

The table below evaluates the data package completeness.

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

Note:
QA = quality assurance

Inorganic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010D, 6020B, 7470A, 9315, and 9320; Standard Method (SM) SM4500-H+ B and SM2540C; and USEPA Method 300.0. Data were reviewed in accordance with USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma–Atomic Emission Spectroscopy and Inductively Coupled Plasma–Mass Spectroscopy (September 2011, Rev. 2), USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2), and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-45, October 2004, as appropriate).

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

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

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

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.

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 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 was performed using sample GWC-6R in association with SW-846 6010D and 7470A. The concentration of calcium in the unspiked sample was greater than four-times the spike concentration, hence, the

SW-846 6010D MS/MSD sample results were not evaluated. The SW-846 7470A MS/MSD analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample GWC-1R in association with SW-846 6020B 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
GWC-4R / GLF-DUP-1	Calcium	55.8	57.8	3.5%
	Boron	4.4	4.2	4.7%
	Antimony	0.00094 J	0.0030 U	AC
	Barium	0.022	0.021	
	Beryllium	0.000072 J	0.000062 J	
	Cadmium	0.00011 J	0.00050 U	
	Cobalt	0.0020 J	0.0020 J	
	Nickel	0.0021 J	0.0019 J	
	Selenium	0.0038 J	0.0040 J	
	Mercury	0.00014 J	0.00020 U	

Note:
AC = Acceptable

The differences in the results between the parent sample GWC-4R and field duplicate sample GLF-DUP-1 were acceptable.

5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

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

Data Validation Checklist for Metals

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

Notes:

%R Percent recovery

RPD Relative percent difference

General Chemistry Analyses

1. Holding Times

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

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

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

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

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

3.1 MS/MSD Analysis

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

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

3.2 Laboratory Duplicate Analysis

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

The laboratory duplicate analysis performed using sample GWC-4R in association with TDS analysis exhibited an RPD within the control limit.

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

4. Field Duplicate Analysis

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

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
GWC-4R / GLF-DUP-1	TDS	628	608	3.2%
	Chloride	146	134	8.6%
	Fluoride	0.050 J	0.070 J	AC
	Sulfate	155	139	10.9%

Note:
AC = Acceptable

The differences in the results between the parent sample GWC-4R and field duplicate sample GLF-DUP-1 were acceptable.

5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

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

Data Validation Checklist for General Chemistry

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

Notes:

%R Percent recovery

RPD Relative percent difference

Radiological Analyses

1. Holding Times

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

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

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

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

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

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

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

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

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

Radium-226 and Radium-228 were detected in the field blank GLF-FB-1 at activities greater than the uncertainty and MDC. The NAD was calculated for each sample. The Radium-226 result in sampls GWC-1R was qualified as "J" since the NAD were less than 1.96. The Radium-228 result in samples GWC-5R and GWC-2R were qualified as "J" since the NAD were less than 1.96. No qualifiers were assigned to the Radium-226 and Radium-228 results in the other field samples since the activities were less than the MDC.

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

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

3.1 MS Analysis

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

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

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

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

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

Where:

x = measured concentration of the spiked sample.

x_0 = measured concentration of the unspiked sample.

c = spike concentration added.

$u^2(x)$, $u^2(x0)$, $u^2(c)$ = the squares of the respective standard uncertainties of these values.

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

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

3.2 Laboratory Duplicate Analysis

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

The numerical performance indicator for laboratory duplicates is calculated by:

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

Where:

x_1, x_2 = two measured activity concentrations.

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

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

The laboratory duplicate analysis performed on sample location GLF-DUP-1 in association with SW-846 9315 analysis exhibited acceptable difference between the results.

4. Field Duplicate Analysis

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

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

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

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
GWC-4R / GLF-DUP-1	Radium-226	0.127 ± 0.105	0.0761 ± 0.0881	AC
	Radium-228	0.306 ± 0.557	0.458 ± 0.517	
	Total Radium	0.433 ± 0.662	0.534 ± 0.605	

Note:
AC = Acceptable

The differences in the results between the parent sample GWC-4R and field duplicate sample GLF-DUP-1 were acceptable.

5. Tracer or Carrier

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

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

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

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

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

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

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

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

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

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

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

7. Isotope Identification

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

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

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

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

8. System Performance and Overall Assessment

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

Data Validation Checklist for Radiologicals

Radiologicals: SW-846 9315/9320	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
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 9, 2022

PEER REVIEW: Dennis Capria

DATE: November 9, 2022

Chain of Custody / Data Qualifier Summary Table

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax:	Project Name:	Plant Yates Gypsum Landfill	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320		App I / II (gpysum only)						Residual Chlorine (Y/N)	3740
1	GWC-6R	WG	G	8/30/22	1110	–	–		5	2		3							X	X	X	X		X						pH: 5.82
2	GWC-5R	WG	G			–	–		5	2		3							X	X	X	X		X						pH:
3	GWC-1R	WG	G	8/30/22	1240	–	–		5	2		3							X	X	X	X		X						pH: 5.07
4	GWC-3R	WG	G			–	–		5	2		3							X	X	X	X		X						pH:
5	GWC-4R	WG	G	8/30/22	1540	–	–		5	2		3							X	X	X	X		X						pH: 5.52
6	GWC-2R	WG	G			–	–		5	2		3							X	X	X	X		X						pH:
7	GLF-EB-1	WG	G			–	–		5	2		3							X	X	X	X		X						pH:
8	GLF-FB-1	WG	G			–	–		5	2		3							X	X	X	X		X						pH:
9	GLF-DUP-1	WG	G	8/30/22	1540 ←	–	1540		5	2		3							X	X	X	X		X						pH: 5.52
10		WG	G			–	–																						
11		WG	G			–	–																						
12		WG	G			–	–																						

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	David Prouty /Arcadis	8/31/22	0800	Ryan Williams / Pace AMS	8/31/22	~~1005~~ 1005	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	AMS	8/31/22	1003	Ryan Williams / Pace	8/31/22	1003	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	8/31/22	1153		8/31/22	1153	

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:	David Prouty					
SIGNATURE of SAMPLER:		DATE Signed: 8/31/22				

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : Of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Gypsum Landfill	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	GWC-6R	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
2	GWC-5R	WG	G	8/30	1240	–	–		5	2		3							X	X	X	X	X		pH: 4.86
3	GWC-1R	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
4	GWC-3R	WG	G	8/30	1535	–	–		5	2		3							X	X	X	X	X		pH: 4.85
5	GWC-4R	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
6	GWC-2R	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
7	GLF-EB-1	WG	G	8/30	1600	–	–		5	2		3							X	X	X	X	X		pH:
8	GLF-FB-1	WG	G	8/30	1550	–	–		5	2		3							X	X	X	X	X		pH:
9	GLF-DUP-1	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
10		WG	G			–	–																		
11		WG	G			–	–																		
12		WG	G			–	–																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jake Swanson Arcadis	8/31/22	0800	AJ	8/31/22	800	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V		8/31/22	0003	Ryan Williams / Pace	9/1/22	003	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	9/1/22	1153		8/31/22	1153	

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:	Jake Swanson					
SIGNATURE of SAMPLER:		DATE Signed: 8/30/22				

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Gypsum Landfill
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency: —

State / Location: Georgia

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

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	GWC-6R	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
2	GWC-5R	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
3	GWC-1R	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
4	GWC-3R	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
5	GWC-4R	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
6	GWC-2R	WG	G	8/30/2022	0925	–	–		5	2		3							X	X	X	X	X		pH: 5.25
7	GLF-EB-1	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
8	GLF-FB-1	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
9	GLF-DUP-1	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
10		WG	G			–	–																		
11		WG	G			–	–																		
12		WG	G			–	–																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	9/1/22	0830	/Arcadis	9/1/22	0830	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	/Arcadis	9/1/22	0	Ryan Williams/Pace	9/1/22	0905	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams/Pace	9/1/22	1055				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Taylor Prouty

SIGNATURE of SAMPLER: Taylor Prouty

DATE Signed: 9/1/22

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

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92623529	GWC-1R	SW846 9315	Radium-226	0.369 +/- 0.155	pCi/L	J	Blank contamination
	GWC-5R	SW846 9320	Radium-228	1.36 +/- 0.647	pCi/L	J	Blank contamination
	GWC-2R	SW846 9320	Radium-228	1.38 +/- 0.664	pCi/L	J	Blank contamination
92623294	No qualifiers assigned						

Abbreviations:
pCi/L = picoCuries per liter

Qualifiers:
J = estimated result

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

November 03, 2022

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

RE: Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between August 31, 2022 and September 01, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

Revision 1: Issued on 11/3/22 to include Radium QC Sheets.

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

Sincerely,

Nicole D'Oleo

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Noelia Gangi, Georgia Power
Geoffrey Gay, ARCADIS - Atlanta
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Michael Smilley, Georgia Power
Becky Steever, Arcadis
Tina Sullivan, ERM
Albert Zumbuhl, Arcadis

REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
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SAMPLE SUMMARY

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92623290001	**GWC-6R**	Water	08/30/22 11:10	08/31/22 11:03
92623290002	**GWC-1R**	Water	08/30/22 12:40	08/31/22 11:03
92623290003	**GWC-4R**	Water	08/30/22 15:40	08/31/22 11:03
92623290004	**GLF-DUP-1**	Water	08/30/22 15:40	08/31/22 11:03
92623290005	**GWC-5R**	Water	08/30/22 12:40	08/31/22 11:03
92623290006	**GWC-3R**	Water	08/30/22 15:35	08/31/22 11:03
92623290007	**GLF-EB-1**	Water	08/30/22 16:00	08/31/22 11:03
92623290008	**GLF-FB-1**	Water	08/30/22 15:50	08/31/22 11:03
92623290009	**GWC-2R**	Water	08/31/22 09:25	09/01/22 09:05

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SAMPLE ANALYTE COUNT

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92623290001	**GWC-6R**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623290002	**GWC-1R**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623290003	**GWC-4R**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623290004	**GLF-DUP-1**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623290005	**GWC-5R**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623290006	**GWC-3R**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623290007	**GLF-EB-1**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623290008	**GLF-FB-1**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623290009	**GWC-2R**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623290001	**GWC-6R**					
EPA 9315	Radium-226	0.0705 ± 0.0916 (0.191) C:92% T:NA	pCi/L		09/23/22 09:01	
EPA 9320	Radium-228	0.790 ± 0.489 (0.940) C:76% T:88%	pCi/L		09/21/22 12:29	
Total Radium Calculation	Total Radium	0.861 ± 0.581 (1.13)	pCi/L		09/26/22 14:22	
92623290002	**GWC-1R**					
EPA 9315	Radium-226	0.369 ± 0.155 (0.140) C:94% T:NA	pCi/L		09/23/22 09:01	
EPA 9320	Radium-228	0.107 ± 0.493 (1.11) C:76% T:82%	pCi/L		09/21/22 12:29	
Total Radium Calculation	Total Radium	0.476 ± 0.648 (1.25)	pCi/L		09/26/22 14:22	
92623290003	**GWC-4R**					
EPA 9315	Radium-226	0.127 ± 0.105 (0.180) C:88% T:NA	pCi/L		09/23/22 09:02	
EPA 9320	Radium-228	0.306 ± 0.557 (1.22) C:70% T:88%	pCi/L		09/21/22 15:24	
Total Radium Calculation	Total Radium	0.433 ± 0.662 (1.40)	pCi/L		09/26/22 14:22	
92623290004	**GLF-DUP-1**					
EPA 9315	Radium-226	0.0761 ± 0.0881 (0.174) C:93% T:NA	pCi/L		09/23/22 09:02	
EPA 9320	Radium-228	0.458 ± 0.517 (1.08) C:72% T:89%	pCi/L		09/21/22 15:24	
Total Radium Calculation	Total Radium	0.534 ± 0.605 (1.25)	pCi/L		09/26/22 14:22	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623290005	**GWC-5R**					
EPA 9315	Radium-226	-0.0206 ± 0.0469 (0.164) C:96% T:NA	pCi/L		09/23/22 09:02	
EPA 9320	Radium-228	1.36 ± 0.647 (1.10) C:74% T:82%	pCi/L		09/21/22 15:24	
Total Radium Calculation	Total Radium	1.36 ± 0.694 (1.26)	pCi/L		09/26/22 14:22	
92623290006	**GWC-3R**					
EPA 9315	Radium-226	0.0792 ± 0.0902 (0.177) C:85% T:NA	pCi/L		09/23/22 09:02	
EPA 9320	Radium-228	0.805 ± 0.626 (1.25) C:70% T:88%	pCi/L		09/21/22 15:25	
Total Radium Calculation	Total Radium	0.884 ± 0.716 (1.43)	pCi/L		09/26/22 14:22	
92623290007	**GLF-EB-1**					
EPA 9315	Radium-226	0.100 ± 0.0918 (0.160) C:89% T:NA	pCi/L		09/23/22 09:02	
EPA 9320	Radium-228	0.640 ± 0.529 (1.06) C:73% T:95%	pCi/L		09/21/22 15:25	
Total Radium Calculation	Total Radium	0.740 ± 0.621 (1.22)	pCi/L		09/26/22 14:22	
92623290008	**GLF-FB-1**					
EPA 9315	Radium-226	0.272 ± 0.133 (0.147) C:98% T:NA	pCi/L		09/23/22 09:02	
EPA 9320	Radium-228	1.14 ± 0.562 (0.977) C:77% T:90%	pCi/L		09/21/22 15:25	
Total Radium Calculation	Total Radium	1.41 ± 0.695 (1.12)	pCi/L		09/26/22 14:22	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623290009	**GWC-2R**					
EPA 9315	Radium-226	0.166 ± 0.113 (0.174) C:92% T:NA	pCi/L		09/23/22 09:02	
EPA 9320	Radium-228	1.38 ± 0.664 (1.14) C:67% T:89%	pCi/L		09/21/22 15:25	
Total Radium Calculation	Total Radium	1.55 ± 0.777 (1.31)	pCi/L		09/26/22 14:22	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Sample: GWC-6R **Lab ID: 92623290001** Collected: 08/30/22 11:10 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0705 ± 0.0916 (0.191) C:92% T:NA**	pCi/L	09/23/22 09:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.790 ± 0.489 (0.940) C:76% T:88%**	pCi/L	09/21/22 12:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.861 ± 0.581 (1.13)**	pCi/L	09/26/22 14:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Sample: GWC-1R **Lab ID: 92623290002** Collected: 08/30/22 12:40 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.369 ± 0.155 (0.140) C:94% T:NA**	pCi/L	09/23/22 09:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.107 ± 0.493 (1.11) C:76% T:82%**	pCi/L	09/21/22 12:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.476 ± 0.648 (1.25)**	pCi/L	09/26/22 14:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Sample: GWC-4R **Lab ID: 92623290003** Collected: 08/30/22 15:40 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.127 ± 0.105 (0.180) C:88% T:NA**	pCi/L	09/23/22 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.306 ± 0.557 (1.22) C:70% T:88%**	pCi/L	09/21/22 15:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.433 ± 0.662 (1.40)**	pCi/L	09/26/22 14:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Sample: GLF-DUP-1 **Lab ID: 92623290004** Collected: 08/30/22 15:40 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0761 ± 0.0881 (0.174) C:93% T:NA**	pCi/L	09/23/22 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.458 ± 0.517 (1.08) C:72% T:89%**	pCi/L	09/21/22 15:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.534 ± 0.605 (1.25)**	pCi/L	09/26/22 14:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Sample: GWC-5R **Lab ID: 92623290005** Collected: 08/30/22 12:40 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.0206 ± 0.0469 (0.164) C:96% T:NA**	pCi/L	09/23/22 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.36 ± 0.647 (1.10) C:74% T:82%**	pCi/L	09/21/22 15:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.36 ± 0.694 (1.26)**	pCi/L	09/26/22 14:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Sample: GWC-3R **Lab ID: 92623290006** Collected: 08/30/22 15:35 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0792 ± 0.0902 (0.177) C:85% T:NA**	pCi/L	09/23/22 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.805 ± 0.626 (1.25) C:70% T:88%**	pCi/L	09/21/22 15:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.884 ± 0.716 (1.43)**	pCi/L	09/26/22 14:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Sample: GLF-EB-1 **Lab ID: 92623290007** Collected: 08/30/22 16:00 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.100 ± 0.0918 (0.160) C:89% T:NA**	pCi/L	09/23/22 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.640 ± 0.529 (1.06) C:73% T:95%**	pCi/L	09/21/22 15:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.740 ± 0.621 (1.22)**	pCi/L	09/26/22 14:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Sample: GLF-FB-1 **Lab ID: 92623290008** Collected: 08/30/22 15:50 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.272 ± 0.133 (0.147) C:98% T:NA**	pCi/L	09/23/22 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.14 ± 0.562 (0.977) C:77% T:90%**	pCi/L	09/21/22 15:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.41 ± 0.695 (1.12)**	pCi/L	09/26/22 14:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Sample: GWC-2R **Lab ID: 92623290009** Collected: 08/31/22 09:25 Received: 09/01/22 09:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.166 ± 0.113 (0.174) C:92% T:NA**	pCi/L	09/23/22 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.38 ± 0.664 (1.14) C:67% T:89%**	pCi/L	09/21/22 15:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.55 ± 0.777 (1.31)**	pCi/L	09/26/22 14:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

QC Batch: 531033
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92623290001, 92623290002, 92623290003, 92623290004, 92623290005, 92623290006, 92623290007, 92623290008, 92623290009

METHOD BLANK: 2575664 Matrix: Water
Associated Lab Samples: 92623290001, 92623290002, 92623290003, 92623290004, 92623290005, 92623290006, 92623290007, 92623290008, 92623290009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0196 ± 0.0818 (0.206) C:100% T:NA	pCi/L	09/23/22 08:42	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

QC Batch: 531032
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92623290001, 92623290002, 92623290003, 92623290004, 92623290005, 92623290006, 92623290007, 92623290008, 92623290009

METHOD BLANK: 2575663 Matrix: Water
Associated Lab Samples: 92623290001, 92623290002, 92623290003, 92623290004, 92623290005, 92623290006, 92623290007, 92623290008, 92623290009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.452 ± 0.381 (0.770) C:73% T:94%	pCi/L	09/21/22 12:20	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623290001	**GWC-6R**	EPA 9315	531033		
92623290002	**GWC-1R**	EPA 9315	531033		
92623290003	**GWC-4R**	EPA 9315	531033		
92623290004	**GLF-DUP-1**	EPA 9315	531033		
92623290005	**GWC-5R**	EPA 9315	531033		
92623290006	**GWC-3R**	EPA 9315	531033		
92623290007	**GLF-EB-1**	EPA 9315	531033		
92623290008	**GLF-FB-1**	EPA 9315	531033		
92623290009	**GWC-2R**	EPA 9315	531033		
92623290001	**GWC-6R**	EPA 9320	531032		
92623290002	**GWC-1R**	EPA 9320	531032		
92623290003	**GWC-4R**	EPA 9320	531032		
92623290004	**GLF-DUP-1**	EPA 9320	531032		
92623290005	**GWC-5R**	EPA 9320	531032		
92623290006	**GWC-3R**	EPA 9320	531032		
92623290007	**GLF-EB-1**	EPA 9320	531032		
92623290008	**GLF-FB-1**	EPA 9320	531032		
92623290009	**GWC-2R**	EPA 9320	531032		
92623290001	**GWC-6R**	Total Radium Calculation	535443		
92623290002	**GWC-1R**	Total Radium Calculation	535443		
92623290003	**GWC-4R**	Total Radium Calculation	535443		
92623290004	**GLF-DUP-1**	Total Radium Calculation	535443		
92623290005	**GWC-5R**	Total Radium Calculation	535443		
92623290006	**GWC-3R**	Total Radium Calculation	535443		
92623290007	**GLF-EB-1**	Total Radium Calculation	535443		
92623290008	**GLF-FB-1**	Total Radium Calculation	535443		
92623290009	**GWC-2R**	Total Radium Calculation	535443		

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mech[illegible] ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Power

Project #:

WO# : 92623290

92623290

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

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

Date/Initials Person Examining Contents: 8/31/22 JM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☑ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.9 **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): 1.9

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

pH Strip Lot# 10D4611

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

WO# : 92623290
PM: NMG Due Date: 09/22/22
CLIENT: GA-GA Power

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project

**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BPIN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																		2				
2		1	1			1																		2				
3		1	1			1																		2				
4		1	1			1																		2				
5		1	1			1																		2				
6		1	1			1																		2				
7		1	1			1																		2				
8		1	1			1																		2				
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11																												
12																												

pH Adjustment Log for Preserved Samples

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

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

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92623290

PM: NMG Due Date: 09/22/22

CLIENT: GA-GA Power

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

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

Date/Initials Person Examining Contents: 9/1/22 (DH)

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.5 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 2.5

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

pH Strip Lot# 10D4611

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

WO# : 92623290

PM: NMG Due Date: 09/22/22

CLIENT: GA-GA Power

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

Project #

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

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

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A	BP2U-500 mL Plastic Unpreserved (N/A	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9 3-9.7)	AG0U-100 mL Amber Unpreserved (N/A (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																			2				
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11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laycoker@southernco.com
Phone:	470.620.6176 Fax:
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Gypsum Landfill
Project Number:	

Section C — Invoice Information:

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

Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test: App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD (9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	GWC-6R	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
2	GWC-5R	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
3	GWC-1R	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
4	GWC-3R	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
5	GWC-4R	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
6	GWC-2R	WG	G	9/1/2022		-	-		5	2		3						X	X	X	X	X		pH:
7	GLF-EB-1	WG	G			-	-		5	2		3						X	X	X	X	X		pH: 5.25
8	GLF-FB-1	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
9	GLF-DUP-1	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
10		WG	G			-	-											X	X	X	X	X		pH:
11		WG	G			-	-																	
12		WG	G			-	-																	

ADDITIONAL COMMENTS

Anions Suite 300.0 (Cl, F, Sulfate)
App III Metals: Boron 6020B, Ca 6010D;
App I/II 6020B: Zn, Ag, Ni, V
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Arcadis	9/1/22	0880	Arcadis	9/1/22	0830	
Arcadis	9/1/22	0	Pace	9/1/22	0905	
Pace	9/1/22	1055		9/1/22	1055	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Layne Coker

SIGNATURE of SAMPLER: Layne Coker DATE Signed: 9/1/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A
Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax:
Requested Due Date:	

Section B
Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Gypsum Landfill
Project Number:	

Section C
Invoice Information:

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

Regulatory Agency	State / Location
	Georgia

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	3240
1	GWC-6R	WG	G	8/30/22	1110	–	–		5	2		3							X	X	X	X	X		pH: 5.82
2	GWC-5R	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
3	GWC-1R	WG	G	8/30/22	1240	–	–		5	2		3							X	X	X	X	X		pH: 5.07
4	GWC-3R	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
5	GWC-4R	WG	G	8/30/22	1540	–	–		5	2		3							X	X	X	X	X		pH: 5.52
6	GWC-2R	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
7	GLF-EB-1	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
8	GLF-FB-1	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
9	GLF-DUP-1	WG	G	8/30/22	~~1530~~ ← 1540				5	2		3							X	X	X	X	X		pH: 5.52
10		WG	G			–	–																		
11		WG	G			–	–																		
12		WG	G			–	–																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate) David Prouty	[signature] /Arcadis	8/31/22	0800	[signature] / Pace Arcadis	8/31/22	[illegible]	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	[signature] Arcadis	8/31/22	1003	Ryan Williams / Pace	8/31/22	1003	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	8/31/22	1153	[signature]	8/31/22	1153	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: David Prouty

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/31/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : Of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Gypsum Landfill	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	GWC-6R	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
2	GWC-5R	WG	G	8/30	1240	–	–		5	2		3							X	X	X	X	X		pH: 4.86
3	GWC-1R	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
4	GWC-3R	WG	G	8/30	1535	–	–		5	2		3							X	X	X	X	X		pH: 4.85
5	GWC-4R	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
6	GWC-2R	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
7	GLF-EB-1	WG	G	8/30	1600	–	–		5	2		3							X	X	X	X	X		pH:
8	GLF-FB-1	WG	G	8/30	1550	–	–		5	2		3							X	X	X	X	X		pH:
9	GLF-DUP-1	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
10		WG	G			–	–																		
11		WG	G			–	–																		
12		WG	G			–	–																		

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

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jake Swanson Arcadis	8/31/22	0800	AJ	8/31/22	800	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V		8/31/22	0003	Ryan Williams / Pace	9/1/22	003	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	8/31/22	1153		8/31/22	1153	

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:	Jake Swanson					
SIGNATURE of SAMPLER:		DATE Signed: 8/30/22				

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Gypsum Landfill
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency: State / Location: Georgia

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)
1	GWC-6R	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
2	GWC-5R	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
3	GWC-1R	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
4	GWC-3R	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
5	GWC-4R	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
6	GWC-2R	WG	G	9/1/2022	0925	–	–		5	2		3							X	X	X	X	X	pH: 5.25
7	GLF-EB-1	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
8	GLF-FB-1	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
9	GLF-DUP-1	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
10		WG	G			–	–																	
11		WG	G			–	–																	
12		WG	G			–	–																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	9/1/22	0830	/Arcadis	9/1/22	0830	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	/Arcadis	9/1/22	0	Ryan Williams/Pace	9/1/22	0905	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams/Pace	9/1/22	1055				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Taylor Prouty

SIGNATURE of SAMPLER: Taylor Prouty DATE Signed: 9/1/22

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

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test: Ra-228
Analyst: VAL
Date: 9/12/2022
Worklist: 68747
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2575663
MB concentration:	0.452
M/B 2 Sigma CSU:	0.381
MB MDC:	0.770
MB Numerical Performance Indicator:	2.33
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS68747	LCSD68747
Count Date:	9/21/2022	9/21/2022
Spike I.D.:	22-016	22-016
Decay Corrected Spike Concentration (pCi/mL):	34.253	34.253
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.830	0.818
Target Conc. (pCi/L, g, F):	4.128	4.189
Uncertainty (Calculated):	0.202	0.205
Result (pCi/L, g, F):	4.881	4.807
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.070	1.062
Numerical Performance Indicator:	1.36	1.12
Percent Recovery:	118.24%	114.75%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS68747	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD68747	
Sample Result (pCi/L, g, F):	4.881	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.070	
Sample Duplicate Result (pCi/L, g, F):	4.807	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.062	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.096	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.99%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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

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

Comments:

9/22/22

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	RMS
Date:	9/14/2022
Worklist:	68748
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2575664
MB concentration:	0.020
M/B Counting Uncertainty:	0.082
MB MDC:	0.206
MB Numerical Performance Indicator:	0.47
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS68748	LCSD68748
Count Date:	9/22/2022	9/22/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.023	24.023
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.507	0.504
Target Conc. (pCi/L, g, F):	4.735	4.765
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.026	5.252
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.529	0.529
Numerical Performance Indicator:	1.07	1.80
Percent Recovery:	106.13%	110.23%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS68748	92623290004
Duplicate Sample I.D.	LCSD68748	92623290004DUP
Sample Result (pCi/L, g, F):	5.026	0.076
Sample Result Counting Uncertainty (pCi/L, g, F):	0.529	0.087
Sample Duplicate Result (pCi/L, g, F):	5.252	-0.012
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.529	0.084
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.594	1.422
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.79%	273.72%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Fail***
% RPD Limit:	25%	25%

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

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

Comments:

***~~Batch must be re-prepped due to unacceptable precision.~~ N/A VAM 9/26/22

VAM 9/26/22

VAM 9/26/22

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

September 20, 2022

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

RE: Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between August 31, 2022 and September 01, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Nicole D'Oleo

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Noelia Gangi, Georgia Power
Geoffrey Gay, ARCADIS - Atlanta
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Michael Smilley, Georgia Power
Becky Steever, Arcadis
Albert Zumbuhl, Arcadis

REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Pace Analytical Services Charlotte
South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001

Pace Analytical Services, LLC
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SAMPLE SUMMARY

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92623294001	**GWC-6R**	Water	08/30/22 11:10	08/31/22 11:03
92623294002	**GWC-1R**	Water	08/30/22 12:40	08/31/22 11:03
92623294003	**GWC-4R**	Water	08/30/22 15:40	08/31/22 11:03
92623294004	**GLF-DUP-1**	Water	08/30/22 15:40	08/31/22 11:03
92623294005	**GWC-5R**	Water	08/30/22 12:40	08/31/22 11:03
92623294006	**GWC-3R**	Water	08/30/22 15:35	08/31/22 11:03
92623294007	**GLF-EB-1**	Water	08/30/22 16:00	08/31/22 11:03
92623294008	**GLF-FB-1**	Water	08/30/22 15:50	08/31/22 11:03
92623294009	**GWC-2R**	Water	08/31/22 09:25	09/01/22 09:05

Pace Analytical Services, LLC
110 Technology Parkway
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SAMPLE ANALYTE COUNT

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92623294001	**GWC-6R**	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623294002	**GWC-1R**	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623294003	**GWC-4R**	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623294004	**GLF-DUP-1**	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92623294005	**GWC-5R**	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92623294006	**GWC-3R**	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92623294007	**GLF-EB-1**	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92623294008	**GLF-FB-1**	EPA 6010D	KH	1
		EPA 6020B	CW1	18

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92623294009	**GWC-2R**	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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

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

SUMMARY OF DETECTION

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623294001	**GWC-6R**					
	Performed by	Customer			08/31/22 16:35	
	pH	5.82	Std. Units		08/31/22 16:35	
EPA 6010D	Calcium	40.6	mg/L	1.0	09/15/22 20:22	M1
EPA 6020B	Barium	0.028	mg/L	0.0050	09/17/22 19:28	
EPA 6020B	Boron	0.0092J	mg/L	0.040	09/17/22 19:28	
EPA 6020B	Chromium	0.0016J	mg/L	0.0050	09/17/22 19:28	
EPA 6020B	Lithium	0.0013J	mg/L	0.030	09/17/22 19:28	
SM 2540C-2015	Total Dissolved Solids	400	mg/L	25.0	09/02/22 11:12	
EPA 300.0 Rev 2.1 1993	Chloride	7.5	mg/L	1.0	09/08/22 04:40	
EPA 300.0 Rev 2.1 1993	Fluoride	0.064J	mg/L	0.10	09/08/22 04:40	
EPA 300.0 Rev 2.1 1993	Sulfate	174	mg/L	4.0	09/08/22 07:50	
92623294002	**GWC-1R**					
	Performed by	Customer			08/31/22 16:35	
	pH	5.07	Std. Units		08/31/22 16:35	
EPA 6010D	Calcium	189	mg/L	1.0	09/15/22 20:51	
EPA 6020B	Arsenic	0.0035J	mg/L	0.0050	09/17/22 19:33	
EPA 6020B	Barium	0.058	mg/L	0.0050	09/17/22 19:33	
EPA 6020B	Beryllium	0.00037J	mg/L	0.00050	09/17/22 19:33	
EPA 6020B	Boron	0.015J	mg/L	0.040	09/17/22 19:33	
EPA 6020B	Cadmium	0.00026J	mg/L	0.00050	09/17/22 19:33	
EPA 6020B	Chromium	0.0015J	mg/L	0.0050	09/17/22 19:33	
EPA 6020B	Cobalt	0.00087J	mg/L	0.0050	09/17/22 19:33	
EPA 6020B	Lithium	0.0019J	mg/L	0.030	09/17/22 19:33	
EPA 6020B	Nickel	0.0027J	mg/L	0.0050	09/17/22 19:33	
EPA 6020B	Selenium	0.030	mg/L	0.0050	09/17/22 19:33	
SM 2540C-2015	Total Dissolved Solids	1600	mg/L	125	09/02/22 11:13	
EPA 300.0 Rev 2.1 1993	Chloride	5.6	mg/L	1.0	09/08/22 04:54	
EPA 300.0 Rev 2.1 1993	Sulfate	994	mg/L	19.0	09/08/22 08:04	
92623294003	**GWC-4R**					
	Performed by	Customer			08/31/22 16:35	
	pH	5.52	Std. Units		08/31/22 16:35	
EPA 6010D	Calcium	55.8	mg/L	1.0	09/15/22 20:56	
EPA 6020B	Antimony	0.00094J	mg/L	0.0030	09/17/22 19:57	
EPA 6020B	Barium	0.022	mg/L	0.0050	09/17/22 19:57	
EPA 6020B	Beryllium	0.000072J	mg/L	0.00050	09/17/22 19:57	
EPA 6020B	Boron	4.4	mg/L	0.040	09/17/22 19:57	
EPA 6020B	Cadmium	0.00011J	mg/L	0.00050	09/17/22 19:57	
EPA 6020B	Cobalt	0.0020J	mg/L	0.0050	09/17/22 19:57	
EPA 6020B	Nickel	0.0021J	mg/L	0.0050	09/17/22 19:57	
EPA 6020B	Selenium	0.0038J	mg/L	0.0050	09/17/22 19:57	
EPA 7470A	Mercury	0.00014J	mg/L	0.00020	09/16/22 12:40	
SM 2540C-2015	Total Dissolved Solids	628	mg/L	50.0	09/02/22 11:13	
EPA 300.0 Rev 2.1 1993	Chloride	146	mg/L	3.0	09/08/22 08:18	
EPA 300.0 Rev 2.1 1993	Fluoride	0.050J	mg/L	0.10	09/08/22 05:08	
EPA 300.0 Rev 2.1 1993	Sulfate	155	mg/L	3.0	09/08/22 08:18	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623294004	**GLF-DUP-1**					
	Performed by	Customer			08/31/22 16:36	
	pH	5.52	Std. Units		08/31/22 16:36	
EPA 6010D	Calcium	57.8	mg/L	1.0	09/15/22 21:00	
EPA 6020B	Barium	0.021	mg/L	0.0050	09/17/22 20:03	
EPA 6020B	Beryllium	0.000062J	mg/L	0.00050	09/17/22 20:03	
EPA 6020B	Boron	4.2	mg/L	0.040	09/17/22 20:03	
EPA 6020B	Cobalt	0.0020J	mg/L	0.0050	09/17/22 20:03	
EPA 6020B	Nickel	0.0019J	mg/L	0.0050	09/17/22 20:03	
EPA 6020B	Selenium	0.0040J	mg/L	0.0050	09/17/22 20:03	
SM 2540C-2015	Total Dissolved Solids	608	mg/L	50.0	09/02/22 11:13	
EPA 300.0 Rev 2.1 1993	Chloride	134	mg/L	3.0	09/08/22 19:34	
EPA 300.0 Rev 2.1 1993	Fluoride	0.070J	mg/L	0.10	09/08/22 09:51	
EPA 300.0 Rev 2.1 1993	Sulfate	139	mg/L	3.0	09/08/22 19:34	
92623294005	**GWC-5R**					
	Performed by	Customer			08/31/22 16:36	
	pH	4.86	Std. Units		08/31/22 16:36	
EPA 6010D	Calcium	135	mg/L	1.0	09/15/22 21:05	
EPA 6020B	Arsenic	0.0035J	mg/L	0.0050	09/17/22 20:09	
EPA 6020B	Barium	0.010	mg/L	0.0050	09/17/22 20:09	
EPA 6020B	Beryllium	0.0032	mg/L	0.00050	09/17/22 20:09	
EPA 6020B	Boron	0.058	mg/L	0.040	09/17/22 20:09	
EPA 6020B	Cadmium	0.00098	mg/L	0.00050	09/17/22 20:09	
EPA 6020B	Chromium	0.0019J	mg/L	0.0050	09/17/22 20:09	
EPA 6020B	Cobalt	0.00077J	mg/L	0.0050	09/17/22 20:09	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	09/17/22 20:09	
EPA 6020B	Nickel	0.00097J	mg/L	0.0050	09/17/22 20:09	
EPA 6020B	Selenium	0.019	mg/L	0.0050	09/17/22 20:09	
EPA 6020B	Zinc	0.022	mg/L	0.010	09/17/22 20:09	
SM 2540C-2015	Total Dissolved Solids	1570	mg/L	125	09/02/22 11:13	
EPA 300.0 Rev 2.1 1993	Chloride	1.8	mg/L	1.0	09/08/22 10:06	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	09/08/22 10:06	
EPA 300.0 Rev 2.1 1993	Sulfate	939	mg/L	20.0	09/08/22 19:49	
92623294006	**GWC-3R**					
	Performed by	Customer			08/31/22 16:36	
	pH	4.85	Std. Units		08/31/22 16:36	
EPA 6010D	Calcium	17.5	mg/L	1.0	09/15/22 21:10	
EPA 6020B	Barium	0.010	mg/L	0.0050	09/17/22 20:27	
EPA 6020B	Beryllium	0.00056	mg/L	0.00050	09/17/22 20:27	
EPA 6020B	Boron	0.014J	mg/L	0.040	09/17/22 20:27	
EPA 6020B	Cadmium	0.00016J	mg/L	0.00050	09/17/22 20:27	
EPA 6020B	Cobalt	0.0021J	mg/L	0.0050	09/17/22 20:27	
EPA 6020B	Selenium	0.0068	mg/L	0.0050	09/17/22 20:27	
SM 2540C-2015	Total Dissolved Solids	150	mg/L	25.0	09/02/22 11:13	
EPA 300.0 Rev 2.1 1993	Chloride	3.1	mg/L	1.0	09/08/22 10:21	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	09/08/22 10:21	
EPA 300.0 Rev 2.1 1993	Sulfate	76.0	mg/L	1.0	09/08/22 10:21	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623294009	**GWC-2R**					
	Performed by	Customer			09/02/22 10:42	
	pH	5.23	Std. Units		09/02/22 10:42	
EPA 6010D	Calcium	46.9	mg/L	1.0	09/15/22 18:28	
EPA 6020B	Barium	0.026	mg/L	0.0050	09/17/22 21:15	
EPA 6020B	Beryllium	0.00023J	mg/L	0.00050	09/17/22 21:15	
EPA 6020B	Boron	0.19	mg/L	0.040	09/17/22 21:15	
EPA 6020B	Cadmium	0.00012J	mg/L	0.00050	09/17/22 21:15	
EPA 6020B	Cobalt	0.0036J	mg/L	0.0050	09/17/22 21:15	
EPA 6020B	Lithium	0.0042J	mg/L	0.030	09/17/22 21:15	
EPA 6020B	Selenium	0.0042J	mg/L	0.0050	09/17/22 21:15	
SM 2540C-2015	Total Dissolved Solids	510	mg/L	25.0	09/05/22 13:05	
EPA 300.0 Rev 2.1 1993	Chloride	14.5	mg/L	1.0	09/09/22 02:09	
EPA 300.0 Rev 2.1 1993	Sulfate	280	mg/L	6.0	09/09/22 08:15	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Sample: GWC-6R **Lab ID: 92623294001** Collected: 08/30/22 11:10 Received: 08/31/22 11:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/31/22 16:35		
pH	**5.82**	Std. Units			1		08/31/22 16:35		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**40.6**	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 20:22	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	09/16/22 11:43	09/17/22 19:28	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 19:28	7440-38-2	
Barium	**0.028**	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 19:28	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 19:28	7440-41-7	
Boron	**0.0092J**	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 19:28	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 19:28	7440-43-9	
Chromium	**0.0016J**	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 19:28	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 19:28	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	09/16/22 11:43	09/17/22 19:28	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 19:28	7439-92-1	
Lithium	**0.0013J**	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 19:28	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 19:28	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	09/16/22 11:43	09/17/22 19:28	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 19:28	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	09/16/22 11:43	09/17/22 19:28	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 19:28	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/16/22 11:43	09/17/22 19:28	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	09/16/22 11:43	09/17/22 19:28	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/16/22 08:15	09/16/22 12:21	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**400**	mg/L	25.0	10.0	1		09/02/22 11:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.5**	mg/L	1.0	0.60	1		09/08/22 04:40	16887-00-6	
Fluoride	**0.064J**	mg/L	0.10	0.050	1		09/08/22 04:40	16984-48-8	
Sulfate	**174**	mg/L	4.0	2.0	4		09/08/22 07:50	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Sample: GWC-1R **Lab ID: 92623294002** Collected: 08/30/22 12:40 Received: 08/31/22 11:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/31/22 16:35		
pH	**5.07**	Std. Units			1		08/31/22 16:35		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**189**	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 20:51	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	09/16/22 11:43	09/17/22 19:33	7440-36-0	
Arsenic	**0.0035J**	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 19:33	7440-38-2	
Barium	**0.058**	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 19:33	7440-39-3	
Beryllium	**0.00037J**	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 19:33	7440-41-7	
Boron	**0.015J**	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 19:33	7440-42-8	
Cadmium	**0.00026J**	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 19:33	7440-43-9	
Chromium	**0.0015J**	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 19:33	7440-47-3	
Cobalt	**0.00087J**	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 19:33	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	09/16/22 11:43	09/17/22 19:33	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 19:33	7439-92-1	
Lithium	**0.0019J**	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 19:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 19:33	7439-98-7	
Nickel	**0.0027J**	mg/L	0.0050	0.00071	1	09/16/22 11:43	09/17/22 19:33	7440-02-0	
Selenium	**0.030**	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 19:33	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	09/16/22 11:43	09/17/22 19:33	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 19:33	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/16/22 11:43	09/17/22 19:33	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	09/16/22 11:43	09/17/22 19:33	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/16/22 08:15	09/16/22 12:37	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1600**	mg/L	125	50.0	1		09/02/22 11:13		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.6**	mg/L	1.0	0.60	1		09/08/22 04:54	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 04:54	16984-48-8	
Sulfate	**994**	mg/L	19.0	9.5	19		09/08/22 08:04	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Sample: GWC-4R **Lab ID: 92623294003** Collected: 08/30/22 15:40 Received: 08/31/22 11:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/31/22 16:35		
pH	**5.52**	Std. Units			1		08/31/22 16:35		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**55.8**	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 20:56	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00094J**	mg/L	0.0030	0.00078	1	09/16/22 11:43	09/17/22 19:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 19:57	7440-38-2	
Barium	**0.022**	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 19:57	7440-39-3	
Beryllium	**0.000072J**	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 19:57	7440-41-7	
Boron	**4.4**	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 19:57	7440-42-8	
Cadmium	**0.00011J**	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 19:57	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 19:57	7440-47-3	
Cobalt	**0.0020J**	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 19:57	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	09/16/22 11:43	09/17/22 19:57	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 19:57	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 19:57	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 19:57	7439-98-7	
Nickel	**0.0021J**	mg/L	0.0050	0.00071	1	09/16/22 11:43	09/17/22 19:57	7440-02-0	
Selenium	**0.0038J**	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 19:57	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	09/16/22 11:43	09/17/22 19:57	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 19:57	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/16/22 11:43	09/17/22 19:57	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	09/16/22 11:43	09/17/22 19:57	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00014J**	mg/L	0.00020	0.00013	1	09/16/22 08:15	09/16/22 12:40	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**628**	mg/L	50.0	20.0	1		09/02/22 11:13		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**146**	mg/L	3.0	1.8	3		09/08/22 08:18	16887-00-6	
Fluoride	**0.050J**	mg/L	0.10	0.050	1		09/08/22 05:08	16984-48-8	
Sulfate	**155**	mg/L	3.0	1.5	3		09/08/22 08:18	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Sample: GLF-DUP-1 **Lab ID: 92623294004** Collected: 08/30/22 15:40 Received: 08/31/22 11:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/31/22 16:36		
pH	**5.52**	Std. Units			1		08/31/22 16:36		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**57.8**	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 21:00	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	09/16/22 11:43	09/17/22 20:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 20:03	7440-38-2	
Barium	**0.021**	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 20:03	7440-39-3	
Beryllium	**0.000062J**	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 20:03	7440-41-7	
Boron	**4.2**	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 20:03	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 20:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 20:03	7440-47-3	
Cobalt	**0.0020J**	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 20:03	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	09/16/22 11:43	09/17/22 20:03	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 20:03	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 20:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 20:03	7439-98-7	
Nickel	**0.0019J**	mg/L	0.0050	0.00071	1	09/16/22 11:43	09/17/22 20:03	7440-02-0	
Selenium	**0.0040J**	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 20:03	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	09/16/22 11:43	09/17/22 20:03	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 20:03	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/16/22 11:43	09/17/22 20:03	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	09/16/22 11:43	09/17/22 20:03	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/16/22 08:15	09/16/22 12:42	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**608**	mg/L	50.0	20.0	1		09/02/22 11:13		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**134**	mg/L	3.0	1.8	3		09/08/22 19:34	16887-00-6	
Fluoride	**0.070J**	mg/L	0.10	0.050	1		09/08/22 09:51	16984-48-8	
Sulfate	**139**	mg/L	3.0	1.5	3		09/08/22 19:34	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Sample: GWC-5R **Lab ID: 92623294005** Collected: 08/30/22 12:40 Received: 08/31/22 11:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/31/22 16:36		
pH	**4.86**	Std. Units			1		08/31/22 16:36		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**135**	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 21:05	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/16/22 11:43	09/17/22 20:09	7440-36-0	
Arsenic	**0.0035J**	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 20:09	7440-38-2	
Barium	**0.010**	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 20:09	7440-39-3	
Beryllium	**0.0032**	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 20:09	7440-41-7	
Boron	**0.058**	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 20:09	7440-42-8	
Cadmium	**0.00098**	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 20:09	7440-43-9	
Chromium	**0.0019J**	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 20:09	7440-47-3	
Cobalt	**0.00077J**	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 20:09	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	09/16/22 11:43	09/17/22 20:09	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 20:09	7439-92-1	
Lithium	**0.0014J**	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 20:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 20:09	7439-98-7	
Nickel	**0.00097J**	mg/L	0.0050	0.00071	1	09/16/22 11:43	09/17/22 20:09	7440-02-0	
Selenium	**0.019**	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 20:09	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	09/16/22 11:43	09/17/22 20:09	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 20:09	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/16/22 11:43	09/17/22 20:09	7440-62-2	
Zinc	**0.022**	mg/L	0.010	0.0070	1	09/16/22 11:43	09/17/22 20:09	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/16/22 08:15	09/16/22 12:45	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1570**	mg/L	125	50.0	1		09/02/22 11:13		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.8**	mg/L	1.0	0.60	1		09/08/22 10:06	16887-00-6	
Fluoride	**0.11**	mg/L	0.10	0.050	1		09/08/22 10:06	16984-48-8	
Sulfate	**939**	mg/L	20.0	10.0	20		09/08/22 19:49	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Sample: GWC-3R **Lab ID: 92623294006** Collected: 08/30/22 15:35 Received: 08/31/22 11:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/31/22 16:36		
pH	**4.85**	Std. Units			1		08/31/22 16:36		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**17.5**	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 21:10	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	09/16/22 11:43	09/17/22 20:27	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 20:27	7440-38-2	
Barium	**0.010**	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 20:27	7440-39-3	
Beryllium	**0.00056**	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 20:27	7440-41-7	
Boron	**0.014J**	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 20:27	7440-42-8	
Cadmium	**0.00016J**	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 20:27	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 20:27	7440-47-3	
Cobalt	**0.0021J**	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 20:27	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	09/16/22 11:43	09/17/22 20:27	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 20:27	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 20:27	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 20:27	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	09/16/22 11:43	09/17/22 20:27	7440-02-0	
Selenium	**0.0068**	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 20:27	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	09/16/22 11:43	09/17/22 20:27	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 20:27	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/16/22 11:43	09/17/22 20:27	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	09/16/22 11:43	09/17/22 20:27	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/16/22 08:15	09/16/22 12:47	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**150**	mg/L	25.0	10.0	1		09/02/22 11:13		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.1**	mg/L	1.0	0.60	1		09/08/22 10:21	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	0.050	1		09/08/22 10:21	16984-48-8	
Sulfate	**76.0**	mg/L	1.0	0.50	1		09/08/22 10:21	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Sample: GLF-EB-1 **Lab ID: 92623294007** Collected: 08/30/22 16:00 Received: 08/31/22 11:03 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	09/15/22 15:08	09/15/22 21:15	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	09/16/22 11:43	09/17/22 20:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 20:33	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 20:33	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 20:33	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 20:33	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 20:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 20:33	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 20:33	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	09/16/22 11:43	09/17/22 20:33	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 20:33	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 20:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 20:33	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	09/16/22 11:43	09/17/22 20:33	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 20:33	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	09/16/22 11:43	09/17/22 20:33	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 20:33	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/16/22 11:43	09/17/22 20:33	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	09/16/22 11:43	09/17/22 20:33	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/16/22 08:15	09/16/22 12:50	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/02/22 11:13		
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		09/08/22 10:37	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 10:37	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/08/22 10:37	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Sample: GLF-FB-1 **Lab ID: 92623294008** Collected: 08/30/22 15:50 Received: 08/31/22 11:03 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	09/15/22 15:08	09/15/22 21:29	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/16/22 11:43	09/17/22 20:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 20:39	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 20:39	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 20:39	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 20:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 20:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 20:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 20:39	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	09/16/22 11:43	09/17/22 20:39	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 20:39	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 20:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 20:39	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	09/16/22 11:43	09/17/22 20:39	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 20:39	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	09/16/22 11:43	09/17/22 20:39	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 20:39	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/16/22 11:43	09/17/22 20:39	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	09/16/22 11:43	09/17/22 20:39	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	0.00013	1	09/16/22 08:15	09/16/22 12:58	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/02/22 11:17		
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		09/08/22 11:57	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 11:57	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/08/22 11:57	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Sample: GWC-2R **Lab ID: 92623294009** Collected: 08/31/22 09:25 Received: 09/01/22 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/02/22 10:42		
pH	**5.23**	Std. Units			1		09/02/22 10:42		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**46.9**	mg/L	1.0	0.12	1	09/15/22 14:54	09/15/22 18:28	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/16/22 11:43	09/17/22 21:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 21:15	7440-38-2	
Barium	**0.026**	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 21:15	7440-39-3	
Beryllium	**0.00023J**	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 21:15	7440-41-7	
Boron	**0.19**	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 21:15	7440-42-8	
Cadmium	**0.00012J**	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 21:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 21:15	7440-47-3	
Cobalt	**0.0036J**	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 21:15	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	09/16/22 11:43	09/17/22 21:15	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 21:15	7439-92-1	
Lithium	**0.0042J**	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 21:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 21:15	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	09/16/22 11:43	09/17/22 21:15	7440-02-0	
Selenium	**0.0042J**	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 21:15	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	09/16/22 11:43	09/17/22 21:15	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 21:15	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/16/22 11:43	09/17/22 21:15	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	09/16/22 11:43	09/17/22 21:15	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/16/22 08:15	09/16/22 13:19	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**510**	mg/L	25.0	10.0	1		09/05/22 13:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**14.5**	mg/L	1.0	0.60	1		09/09/22 02:09	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/09/22 02:09	16984-48-8	
Sulfate	**280**	mg/L	6.0	3.0	6		09/09/22 08:15	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

QC Batch: 723576
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623294001, 92623294002, 92623294003, 92623294004, 92623294005, 92623294006, 92623294007, 92623294008

METHOD BLANK: 3770129 Matrix: Water
Associated Lab Samples: 92623294001, 92623294002, 92623294003, 92623294004, 92623294005, 92623294006, 92623294007, 92623294008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/15/22 20:13	

LABORATORY CONTROL SAMPLE: 3770130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3770131 3770132

Parameter	Units	92623294001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	40.6	1	1	40.6	40.8	1	25	75-125	1	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.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

QC Batch: 723581
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623294009

METHOD BLANK: 3770156 Matrix: Water
Associated Lab Samples: 92623294009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/15/22 17:50	

LABORATORY CONTROL SAMPLE: 3770157

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3770158 3770159

Parameter	Units	92623538003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	105	1	1	104	104	-111	-62	75-125	0	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.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

QC Batch: 723784
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623294001, 92623294002, 92623294003, 92623294004, 92623294005, 92623294006, 92623294007, 92623294008, 92623294009

METHOD BLANK: 3771287 Matrix: Water
Associated Lab Samples: 92623294001, 92623294002, 92623294003, 92623294004, 92623294005, 92623294006, 92623294007, 92623294008, 92623294009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/17/22 19:16	
Arsenic	mg/L	ND	0.0050	0.0022	09/17/22 19:16	
Barium	mg/L	ND	0.0050	0.00067	09/17/22 19:16	
Beryllium	mg/L	ND	0.00050	0.000054	09/17/22 19:16	
Boron	mg/L	ND	0.040	0.0086	09/17/22 19:16	
Cadmium	mg/L	ND	0.00050	0.00011	09/17/22 19:16	
Chromium	mg/L	ND	0.0050	0.0011	09/17/22 19:16	
Cobalt	mg/L	ND	0.0050	0.00039	09/17/22 19:16	
Copper	mg/L	ND	0.0050	0.0010	09/17/22 19:16	
Lead	mg/L	ND	0.0010	0.00089	09/17/22 19:16	
Lithium	mg/L	ND	0.030	0.00073	09/17/22 19:16	
Molybdenum	mg/L	ND	0.010	0.00074	09/17/22 19:16	
Nickel	mg/L	ND	0.0050	0.00071	09/17/22 19:16	
Selenium	mg/L	ND	0.0050	0.0014	09/17/22 19:16	
Silver	mg/L	ND	0.0050	0.00044	09/17/22 19:16	
Thallium	mg/L	ND	0.0010	0.00018	09/17/22 19:16	
Vanadium	mg/L	ND	0.010	0.0019	09/17/22 19:16	
Zinc	mg/L	ND	0.010	0.0070	09/17/22 19:16	

LABORATORY CONTROL SAMPLE: 3771288

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.098	98	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	0.10	100	80-120	
Chromium	mg/L	0.1	0.092	92	80-120	
Cobalt	mg/L	0.1	0.090	90	80-120	
Copper	mg/L	0.1	0.092	92	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Nickel	mg/L	0.1	0.091	91	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Silver	mg/L	0.1	0.097	97	80-120	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

LABORATORY CONTROL SAMPLE: 3771288

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	mg/L	0.1	0.097	97	80-120	
Vanadium	mg/L	0.1	0.093	93	80-120	
Zinc	mg/L	0.1	0.10	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3771521 3771522

Parameter	Units	92623294002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	105	102	75-125	2	20	
Arsenic	mg/L	0.0035J	0.1	0.1	0.10	0.10	100	100	75-125	0	20	
Barium	mg/L	0.058	0.1	0.1	0.16	0.16	98	100	75-125	1	20	
Beryllium	mg/L	0.00037J	0.1	0.1	0.093	0.090	93	90	75-125	3	20	
Boron	mg/L	0.015J	1	1	0.92	0.91	91	89	75-125	2	20	
Cadmium	mg/L	0.00026J	0.1	0.1	0.10	0.099	100	98	75-125	1	20	
Chromium	mg/L	0.0015J	0.1	0.1	0.097	0.093	95	92	75-125	4	20	
Cobalt	mg/L	0.00087J	0.1	0.1	0.096	0.092	96	91	75-125	5	20	
Copper	mg/L	ND	0.1	0.1	0.093	0.090	92	90	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.092	95	92	75-125	3	20	
Lithium	mg/L	0.0019J	0.1	0.1	0.099	0.096	97	94	75-125	3	20	
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.10	105	102	75-125	3	20	
Nickel	mg/L	0.0027J	0.1	0.1	0.096	0.093	94	91	75-125	3	20	
Selenium	mg/L	0.030	0.1	0.1	0.13	0.13	99	102	75-125	2	20	
Silver	mg/L	ND	0.1	0.1	0.089	0.089	89	89	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.096	0.093	96	93	75-125	4	20	
Vanadium	mg/L	ND	0.1	0.1	0.10	0.098	103	98	75-125	4	20	
Zinc	mg/L	ND	0.1	0.1	0.11	0.10	104	101	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

QC Batch: 723555
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623294001, 92623294002, 92623294003, 92623294004, 92623294005, 92623294006, 92623294007, 92623294008, 92623294009

METHOD BLANK: 3769985 Matrix: Water
Associated Lab Samples: 92623294001, 92623294002, 92623294003, 92623294004, 92623294005, 92623294006, 92623294007, 92623294008, 92623294009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/16/22 12:15	

LABORATORY CONTROL SAMPLE: 3769986

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3769987 3769988

Parameter	Units	92623294001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0022	90	88	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

QC Batch: 721194
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623294001, 92623294002, 92623294003, 92623294004, 92623294005, 92623294006, 92623294007, 92623294008

METHOD BLANK: 3757806 Matrix: Water
Associated Lab Samples: 92623294001, 92623294002, 92623294003, 92623294004, 92623294005, 92623294006, 92623294007, 92623294008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/02/22 11:11	

LABORATORY CONTROL SAMPLE: 3757807

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

SAMPLE DUPLICATE: 3757808

Parameter	Units	92623226001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	81.0	78.0	4	25	

SAMPLE DUPLICATE: 3757809

Parameter	Units	92623294003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	628	638	2	25	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

QC Batch: 721455
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623294009

METHOD BLANK: 3759030 Matrix: Water
Associated Lab Samples: 92623294009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/05/22 12:59	

LABORATORY CONTROL SAMPLE: 3759031

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	389	97	80-120	

SAMPLE DUPLICATE: 3759032

Parameter	Units	92623226010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	33.0	44.0	29	25	D6

SAMPLE DUPLICATE: 3759033

Parameter	Units	92623533001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	206	204	1	25	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

QC Batch: 721661
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92623294001, 92623294002, 92623294003

METHOD BLANK: 3760039 Matrix: Water
Associated Lab Samples: 92623294001, 92623294002, 92623294003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/07/22 22:22	
Fluoride	mg/L	ND	0.10	0.050	09/07/22 22:22	
Sulfate	mg/L	ND	1.0	0.50	09/07/22 22:22	

LABORATORY CONTROL SAMPLE: 3760040

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	
Fluoride	mg/L	2.5	2.3	91	90-110	
Sulfate	mg/L	50	49.6	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3760041 3760042

Parameter	Units	92622406016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.1	50	50	57.1	56.7	106	105	90-110	1	10	
Fluoride	mg/L	0.056J	2.5	2.5	2.4	2.4	93	93	90-110	0	10	
Sulfate	mg/L	47.3	50	50	98.1	99.8	101	105	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3760043 3760044

Parameter	Units	92623226003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	7.9	50	50	61.5	61.2	107	107	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	96	95	90-110	1	10	
Sulfate	mg/L	0.78J	50	50	54.0	53.6	106	106	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

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(770)734-4200

QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

QC Batch: 721852
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92623294004, 92623294005, 92623294006, 92623294007, 92623294008

METHOD BLANK: 3761017 Matrix: Water
Associated Lab Samples: 92623294004, 92623294005, 92623294006, 92623294007, 92623294008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/08/22 07:17	
Fluoride	mg/L	ND	0.10	0.050	09/08/22 07:17	
Sulfate	mg/L	ND	1.0	0.50	09/08/22 07:17	

LABORATORY CONTROL SAMPLE: 3761018

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.9	96	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3761019 3761020

Parameter	Units	92623573001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	50.3	51.2	99	101	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.8	2.8	108	107	90-110	1	10	
Sulfate	mg/L	ND	50	50	51.1	51.9	101	103	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

QC Batch: 722008
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92623294009

METHOD BLANK: 3761879 Matrix: Water
Associated Lab Samples: 92623294009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/08/22 21:58	
Fluoride	mg/L	ND	0.10	0.050	09/08/22 21:58	
Sulfate	mg/L	ND	1.0	0.50	09/08/22 21:58	

LABORATORY CONTROL SAMPLE: 3761880

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.2	100	90-110	
Fluoride	mg/L	2.5	2.4	94	90-110	
Sulfate	mg/L	50	50.1	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3761881 3761882

Parameter	Units	92623532006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.5	50	50	57.4	57.9	104	105	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	96	98	90-110	2	10	
Sulfate	mg/L	67.9	50	50	117	117	99	99	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3761883 3761884

Parameter	Units	92623294009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	14.5	50	50	66.1	66.6	103	104	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	94	95	90-110	0	10	
Sulfate	mg/L	280	50	50	326	329	93	100	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623294001	GWC-6R				
92623294002	GWC-1R				
92623294003	GWC-4R				
92623294004	GLF-DUP-1				
92623294005	GWC-5R				
92623294006	GWC-3R				
92623294009	GWC-2R				
92623294001	GWC-6R	EPA 3010A	723576	EPA 6010D	723671
92623294002	GWC-1R	EPA 3010A	723576	EPA 6010D	723671
92623294003	GWC-4R	EPA 3010A	723576	EPA 6010D	723671
92623294004	GLF-DUP-1	EPA 3010A	723576	EPA 6010D	723671
92623294005	GWC-5R	EPA 3010A	723576	EPA 6010D	723671
92623294006	GWC-3R	EPA 3010A	723576	EPA 6010D	723671
92623294007	GLF-EB-1	EPA 3010A	723576	EPA 6010D	723671
92623294008	GLF-FB-1	EPA 3010A	723576	EPA 6010D	723671
92623294009	GWC-2R	EPA 3010A	723581	EPA 6010D	723670
92623294001	GWC-6R	EPA 3005A	723784	EPA 6020B	723868
92623294002	GWC-1R	EPA 3005A	723784	EPA 6020B	723868
92623294003	GWC-4R	EPA 3005A	723784	EPA 6020B	723868
92623294004	GLF-DUP-1	EPA 3005A	723784	EPA 6020B	723868
92623294005	GWC-5R	EPA 3005A	723784	EPA 6020B	723868
92623294006	GWC-3R	EPA 3005A	723784	EPA 6020B	723868
92623294007	GLF-EB-1	EPA 3005A	723784	EPA 6020B	723868
92623294008	GLF-FB-1	EPA 3005A	723784	EPA 6020B	723868
92623294009	GWC-2R	EPA 3005A	723784	EPA 6020B	723868
92623294001	GWC-6R	EPA 7470A	723555	EPA 7470A	723745
92623294002	GWC-1R	EPA 7470A	723555	EPA 7470A	723745
92623294003	GWC-4R	EPA 7470A	723555	EPA 7470A	723745
92623294004	GLF-DUP-1	EPA 7470A	723555	EPA 7470A	723745
92623294005	GWC-5R	EPA 7470A	723555	EPA 7470A	723745
92623294006	GWC-3R	EPA 7470A	723555	EPA 7470A	723745
92623294007	GLF-EB-1	EPA 7470A	723555	EPA 7470A	723745
92623294008	GLF-FB-1	EPA 7470A	723555	EPA 7470A	723745
92623294009	GWC-2R	EPA 7470A	723555	EPA 7470A	723745
92623294001	GWC-6R	SM 2540C-2015	721194		
92623294002	GWC-1R	SM 2540C-2015	721194		
92623294003	GWC-4R	SM 2540C-2015	721194		
92623294004	GLF-DUP-1	SM 2540C-2015	721194		
92623294005	GWC-5R	SM 2540C-2015	721194		
92623294006	GWC-3R	SM 2540C-2015	721194		
92623294007	GLF-EB-1	SM 2540C-2015	721194		
92623294008	GLF-FB-1	SM 2540C-2015	721194		
92623294009	GWC-2R	SM 2540C-2015	721455		
92623294001	GWC-6R	EPA 300.0 Rev 2.1 1993	721661		
92623294002	GWC-1R	EPA 300.0 Rev 2.1 1993	721661		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623294003	**GWC-4R**	EPA 300.0 Rev 2.1 1993	721661		
92623294004	**GLF-DUP-1**	EPA 300.0 Rev 2.1 1993	721852		
92623294005	**GWC-5R**	EPA 300.0 Rev 2.1 1993	721852		
92623294006	**GWC-3R**	EPA 300.0 Rev 2.1 1993	721852		
92623294007	**GLF-EB-1**	EPA 300.0 Rev 2.1 1993	721852		
92623294008	**GLF-FB-1**	EPA 300.0 Rev 2.1 1993	721852		
92623294009	**GWC-2R**	EPA 300.0 Rev 2.1 1993	722008		

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Power

Project

WO# : 92623294

92623294

Courier: ☐ FedEx ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other:

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

Date/Initials Person Examining Contents: 8/31/22 JM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☑ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.9 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 1.9

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

pH Strip Lot# 10D4611

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

WO# : 92623294

PM: NMG Due Date: 09/15/22

CLIENT: GA-GA Power

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

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

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

***Check all unpreserved Nitrates for chlorine

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BPIN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1 ✓																			2				
2		1	1			1 ✓																			2				
3		1	1			1 ✓																			2				
4		1	1			1 ✓																			2				
5		1	1			1 ✓																			2				
6		1	1			1 ✓																			2				
7		1	1			1 ✓																			2				
8		1	1			1 ✓																			2				
9																													
10																													
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12																													

pH Adjustment Log for Preserved Samples

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

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

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92623294

PM: NMG Due Date: 09/15/22

CLIENT: GA-GA Power

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

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

Date/Initials Person Examining Contents: 9/1/22 DH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.5 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 2.5

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

pH Strip Lot# 10D4611

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project # **WO# : 92623294**
PM: NMG Due Date: 09/15/22
CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A	BP2U-500 mL Plastic Unpreserved (N/A	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HC (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9 3-9.7)	AG0U-100 mL Amber Unpreserved (N/A (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																		2				
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pH Adjustment Log for Preserved Samples

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A
Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax:
Requested Due Date:	

Section B
Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Gypsum Landfill
Project Number:	

Section C
Invoice Information:

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

Regulatory Agency
State / Location
Georgia

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	3294
1	GWC-6R	WG	G	8/30/22	1110	-	-		5	2		3							X	X	X	X	X		pH: 5.82
2	GWC-5R	WG	G			-	-		5	2		3							X	X	X	X	X		pH:
3	GWC-1R	WG	G	8/30/22	1240	-	-		5	2		3							X	X	X	X	X		pH: 5.07
4	GWC-3R	WG	G			-	-		5	2		3							X	X	X	X	X		pH:
5	GWC-4R	WG	G	8/30/22	1540	-	-		5	2		3							X	X	X	X	X		pH: 5.52
6	GWC-2R	WG	G			-	-		5	2		3							X	X	X	X	X		pH:
7	GLF-EB-1	WG	G			-	-		5	2		3							X	X	X	X	X		pH:
8	GLF-FB-1	WG	G			-	-		5	2		3							X	X	X	X	X		pH:
9	GLF-DUP-1	WG	G	8/30/22	~~1530~~ ←	-	1540		5	2		3							X	X	X	X	X		pH: 5.52
10		WG	G			-	-																		
11		WG	G			-	-																		
12		WG	G			-	-																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate) David Prouty	[signature] /Arcadis	8/31/21	0805	[signature] / Pace A-3	8/31/22	~~1003~~ 0805	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	[signature] A-3	8/31/21	1003	Ryan Williams / Pace	8/4/22	1003	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	8/4/22	1153	[signature]	8/31/22	1153	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: David Prouty

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/31/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 of 1

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	jaycoker@southernco.com
Phone:	470.620.6176 Fax:
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Gypsum Landfill
Project Number:	

Section C — Invoice Information:

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

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test: App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD (9315/9320)	App I / II (gypsum only)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GWC-6R	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
2	GWC-5R	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
3	GWC-1R	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
4	GWC-3R	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
5	GWC-4R	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
6	GWC-2R	WG	G	8/29/25		-	-		5	2		3						X	X	X	X	X		pH:
7	GLF-EB-1	WG	G			-	-		5	2		3						X	X	X	X	X		pH: 5.25
8	GLF-FB-1	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
9	GLF-DUP-1	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
10		WG	G			-	-																	pH:
11		WG	G			-	-																	
12		WG	G			-	-																	

ADDITIONAL COMMENTS

Anions Suite 300.0 (Cl, F, Sulfate)
App III Metals: Boron 6020B, Ca 6010D;
App I/II 6020B: Zn, Ag, Ni, V
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)
7040A: Mercury (Hg)

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Arcadis	9/1/22	0830		9/1/22	0830
Arcadis	9/1/22	0	Logan Williams / Pace	9/1/22	0905
Logan Williams / Pace	9/1/22	1055		9/1/22	1055

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Logan Williams

SIGNATURE of SAMPLER: [signature] DATE Signed: 9/1/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : Of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Gypsum Landfill	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency	
State / Location	Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	GWC-6R	WG	G			--	--		5	2		3							X	X	X	X	X		pH:
2	GWC-5R	WG	G	8/30	1240	--	--		5	2		3							X	X	X	X	X		pH: 4.86
3	GWC-1R	WG	G			--	--		5	2		3							X	X	X	X	X		pH:
4	GWC-3R	WG	G	8/30	1535	--	--		5	2		3							X	X	X	X	X		pH: 4 85
5	GWC-4R	WG	G			--	--		5	2		3							X	X	X	X	X		pH:
6	GWC-2R	WG	G			--	--		5	2		3							X	X	X	X	X		pH:
7	GLF-EB-1	WG	G	8/30	1600	--	--		5	2		3							X	X	X	X	X		pH:
8	GLF-FB-1	WG	G	8/30	1550	--	--		5	2		3							X	X	X	X	X		pH:
9	GLF-DUP-1	WG	G			--	--		5	2		3							X	X	X	X	X		pH:
10		WG	G			--	--																		
11		WG	G			--	--																		
12		WG	G			--	--																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Suite 300.0 (Cl, F, Sulfate)	Jake Swanson Arcadis	8/31/22	0800	AJ	8/31/22	800
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V		8/31/22	0003	Ryan Williams / Pace	9/1/22	0003
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	8/1/22	1153		8/31/22	1153

SAMPLER NAME AND SIGNATURE		
PRINT Name of SAMPLER:	Jake Swanson	
SIGNATURE of SAMPLER:		DATE Signed: 8/30/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Gypsum Landfill	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320		App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	GWC-6R	WG	G			-	-		5	2		3							X	X	X	X		X		pH:
2	GWC-5R	WG	G			-	-		5	2		3							X	X	X	X		X		pH:
3	GWC-1R	WG	G			-	-		5	2		3							X	X	X	X		X		pH:
4	GWC-3R	WG	G			-	-		5	2		3							X	X	X	X		X		pH:
5	GWC-4R	WG	G			-	-		5	2		3							X	X	X	X		X		pH:
6	GWC-2R	WG	G	8/30/22	0925	-	-		5	2		3							X	X	X	X		X		pH: 5.25
7	GLF-EB-1	WG	G			-	-		5	2		3							X	X	X	X		X		pH:
8	GLF-FB-1	WG	G			-	-		5	2		3							X	X	X	X		X		pH:
9	GLF-DUP-1	WG	G			-	-		5	2		3							X	X	X	X		X		pH:
10		WG	G			-	-																			
11		WG	G			-	-																			
12		WG	G			-	-																			

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	9/1/22	0830	/AES	9/1/22	0830	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	/AES	9/1/22	0	Ryan Williams/Pace	9/1/22	0905	
App IV. Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams/Pace	9/1/22	1055				

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:	Taylor Coutts					
SIGNATURE of SAMPLER:		DATE Signed: 9/1/22				

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

November 03, 2022

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

RE: Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between August 31, 2022 and September 01, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

Revision 1: Issued on 11/3/22 to include Radium QC Sheets.

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

Sincerely,

Nicole D'Oleo

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Noelia Gangi, Georgia Power
Geoffrey Gay, ARCADIS - Atlanta
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Michael Smilley, Georgia Power
Becky Steever, Arcadis
Tina Sullivan, ERM
Albert Zumbuhl, Arcadis

REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services, LLC
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SAMPLE SUMMARY

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92623290001	**GWC-6R**	Water	08/30/22 11:10	08/31/22 11:03
92623290002	**GWC-1R**	Water	08/30/22 12:40	08/31/22 11:03
92623290003	**GWC-4R**	Water	08/30/22 15:40	08/31/22 11:03
92623290004	**GLF-DUP-1**	Water	08/30/22 15:40	08/31/22 11:03
92623290005	**GWC-5R**	Water	08/30/22 12:40	08/31/22 11:03
92623290006	**GWC-3R**	Water	08/30/22 15:35	08/31/22 11:03
92623290007	**GLF-EB-1**	Water	08/30/22 16:00	08/31/22 11:03
92623290008	**GLF-FB-1**	Water	08/30/22 15:50	08/31/22 11:03
92623290009	**GWC-2R**	Water	08/31/22 09:25	09/01/22 09:05

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110 Technology Parkway
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(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92623290001	**GWC-6R**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623290002	**GWC-1R**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623290003	**GWC-4R**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623290004	**GLF-DUP-1**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623290005	**GWC-5R**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623290006	**GWC-3R**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623290007	**GLF-EB-1**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623290008	**GLF-FB-1**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623290009	**GWC-2R**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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

SUMMARY OF DETECTION

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623290001	**GWC-6R**					
EPA 9315	Radium-226	0.0705 ± 0.0916 (0.191) C:92% T:NA	pCi/L		09/23/22 09:01	
EPA 9320	Radium-228	0.790 ± 0.489 (0.940) C:76% T:88%	pCi/L		09/21/22 12:29	
Total Radium Calculation	Total Radium	0.861 ± 0.581 (1.13)	pCi/L		09/26/22 14:22	
92623290002	**GWC-1R**					
EPA 9315	Radium-226	0.369 ± 0.155 (0.140) C:94% T:NA	pCi/L		09/23/22 09:01	
EPA 9320	Radium-228	0.107 ± 0.493 (1.11) C:76% T:82%	pCi/L		09/21/22 12:29	
Total Radium Calculation	Total Radium	0.476 ± 0.648 (1.25)	pCi/L		09/26/22 14:22	
92623290003	**GWC-4R**					
EPA 9315	Radium-226	0.127 ± 0.105 (0.180) C:88% T:NA	pCi/L		09/23/22 09:02	
EPA 9320	Radium-228	0.306 ± 0.557 (1.22) C:70% T:88%	pCi/L		09/21/22 15:24	
Total Radium Calculation	Total Radium	0.433 ± 0.662 (1.40)	pCi/L		09/26/22 14:22	
92623290004	**GLF-DUP-1**					
EPA 9315	Radium-226	0.0761 ± 0.0881 (0.174) C:93% T:NA	pCi/L		09/23/22 09:02	
EPA 9320	Radium-228	0.458 ± 0.517 (1.08) C:72% T:89%	pCi/L		09/21/22 15:24	
Total Radium Calculation	Total Radium	0.534 ± 0.605 (1.25)	pCi/L		09/26/22 14:22	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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SUMMARY OF DETECTION

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623290005	**GWC-5R**					
EPA 9315	Radium-226	-0.0206 ± 0.0469 (0.164) C:96% T:NA	pCi/L		09/23/22 09:02	
EPA 9320	Radium-228	1.36 ± 0.647 (1.10) C:74% T:82%	pCi/L		09/21/22 15:24	
Total Radium Calculation	Total Radium	1.36 ± 0.694 (1.26)	pCi/L		09/26/22 14:22	
92623290006	**GWC-3R**					
EPA 9315	Radium-226	0.0792 ± 0.0902 (0.177) C:85% T:NA	pCi/L		09/23/22 09:02	
EPA 9320	Radium-228	0.805 ± 0.626 (1.25) C:70% T:88%	pCi/L		09/21/22 15:25	
Total Radium Calculation	Total Radium	0.884 ± 0.716 (1.43)	pCi/L		09/26/22 14:22	
92623290007	**GLF-EB-1**					
EPA 9315	Radium-226	0.100 ± 0.0918 (0.160) C:89% T:NA	pCi/L		09/23/22 09:02	
EPA 9320	Radium-228	0.640 ± 0.529 (1.06) C:73% T:95%	pCi/L		09/21/22 15:25	
Total Radium Calculation	Total Radium	0.740 ± 0.621 (1.22)	pCi/L		09/26/22 14:22	
92623290008	**GLF-FB-1**					
EPA 9315	Radium-226	0.272 ± 0.133 (0.147) C:98% T:NA	pCi/L		09/23/22 09:02	
EPA 9320	Radium-228	1.14 ± 0.562 (0.977) C:77% T:90%	pCi/L		09/21/22 15:25	
Total Radium Calculation	Total Radium	1.41 ± 0.695 (1.12)	pCi/L		09/26/22 14:22	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623290009	**GWC-2R**					
EPA 9315	Radium-226	0.166 ± 0.113 (0.174) C:92% T:NA	pCi/L		09/23/22 09:02	
EPA 9320	Radium-228	1.38 ± 0.664 (1.14) C:67% T:89%	pCi/L		09/21/22 15:25	
Total Radium Calculation	Total Radium	1.55 ± 0.777 (1.31)	pCi/L		09/26/22 14:22	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Sample: GWC-6R **Lab ID: 92623290001** Collected: 08/30/22 11:10 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0705 ± 0.0916 (0.191) C:92% T:NA**	pCi/L	09/23/22 09:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.790 ± 0.489 (0.940) C:76% T:88%**	pCi/L	09/21/22 12:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.861 ± 0.581 (1.13)**	pCi/L	09/26/22 14:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Sample: GWC-1R **Lab ID: 92623290002** Collected: 08/30/22 12:40 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.369 ± 0.155 (0.140) C:94% T:NA**	pCi/L	09/23/22 09:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.107 ± 0.493 (1.11) C:76% T:82%**	pCi/L	09/21/22 12:29	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.476 ± 0.648 (1.25)**	pCi/L	09/26/22 14:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Sample: GWC-4R **Lab ID: 92623290003** Collected: 08/30/22 15:40 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.127 ± 0.105 (0.180) C:88% T:NA**	pCi/L	09/23/22 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.306 ± 0.557 (1.22) C:70% T:88%**	pCi/L	09/21/22 15:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.433 ± 0.662 (1.40)**	pCi/L	09/26/22 14:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Sample: GLF-DUP-1 **Lab ID: 92623290004** Collected: 08/30/22 15:40 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0761 ± 0.0881 (0.174) C:93% T:NA**	pCi/L	09/23/22 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.458 ± 0.517 (1.08) C:72% T:89%**	pCi/L	09/21/22 15:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.534 ± 0.605 (1.25)**	pCi/L	09/26/22 14:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Sample: GWC-5R **Lab ID: 92623290005** Collected: 08/30/22 12:40 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.0206 ± 0.0469 (0.164) C:96% T:NA**	pCi/L	09/23/22 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.36 ± 0.647 (1.10) C:74% T:82%**	pCi/L	09/21/22 15:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.36 ± 0.694 (1.26)**	pCi/L	09/26/22 14:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Sample: GWC-3R **Lab ID: 92623290006** Collected: 08/30/22 15:35 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0792 ± 0.0902 (0.177) C:85% T:NA**	pCi/L	09/23/22 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.805 ± 0.626 (1.25) C:70% T:88%**	pCi/L	09/21/22 15:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.884 ± 0.716 (1.43)**	pCi/L	09/26/22 14:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Sample: GLF-EB-1 **Lab ID: 92623290007** Collected: 08/30/22 16:00 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.100 ± 0.0918 (0.160) C:89% T:NA**	pCi/L	09/23/22 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.640 ± 0.529 (1.06) C:73% T:95%**	pCi/L	09/21/22 15:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.740 ± 0.621 (1.22)**	pCi/L	09/26/22 14:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Sample: GLF-FB-1 **Lab ID: 92623290008** Collected: 08/30/22 15:50 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.272 ± 0.133 (0.147) C:98% T:NA**	pCi/L	09/23/22 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.14 ± 0.562 (0.977) C:77% T:90%**	pCi/L	09/21/22 15:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.41 ± 0.695 (1.12)**	pCi/L	09/26/22 14:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Sample: GWC-2R **Lab ID: 92623290009** Collected: 08/31/22 09:25 Received: 09/01/22 09:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.166 ± 0.113 (0.174) C:92% T:NA**	pCi/L	09/23/22 09:02	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.38 ± 0.664 (1.14) C:67% T:89%**	pCi/L	09/21/22 15:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.55 ± 0.777 (1.31)**	pCi/L	09/26/22 14:22	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

QC Batch: 531033
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92623290001, 92623290002, 92623290003, 92623290004, 92623290005, 92623290006, 92623290007, 92623290008, 92623290009

METHOD BLANK: 2575664 Matrix: Water
Associated Lab Samples: 92623290001, 92623290002, 92623290003, 92623290004, 92623290005, 92623290006, 92623290007, 92623290008, 92623290009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0196 ± 0.0818 (0.206) C:100% T:NA	pCi/L	09/23/22 08:42	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

QC Batch: 531032
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92623290001, 92623290002, 92623290003, 92623290004, 92623290005, 92623290006, 92623290007, 92623290008, 92623290009

METHOD BLANK: 2575663 Matrix: Water
Associated Lab Samples: 92623290001, 92623290002, 92623290003, 92623290004, 92623290005, 92623290006, 92623290007, 92623290008, 92623290009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.452 ± 0.381 (0.770) C:73% T:94%	pCi/L	09/21/22 12:20	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Gypsum LF RAD-Revised Report
Pace Project No.: 92623290

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623290001	**GWC-6R**	EPA 9315	531033		
92623290002	**GWC-1R**	EPA 9315	531033		
92623290003	**GWC-4R**	EPA 9315	531033		
92623290004	**GLF-DUP-1**	EPA 9315	531033		
92623290005	**GWC-5R**	EPA 9315	531033		
92623290006	**GWC-3R**	EPA 9315	531033		
92623290007	**GLF-EB-1**	EPA 9315	531033		
92623290008	**GLF-FB-1**	EPA 9315	531033		
92623290009	**GWC-2R**	EPA 9315	531033		
92623290001	**GWC-6R**	EPA 9320	531032		
92623290002	**GWC-1R**	EPA 9320	531032		
92623290003	**GWC-4R**	EPA 9320	531032		
92623290004	**GLF-DUP-1**	EPA 9320	531032		
92623290005	**GWC-5R**	EPA 9320	531032		
92623290006	**GWC-3R**	EPA 9320	531032		
92623290007	**GLF-EB-1**	EPA 9320	531032		
92623290008	**GLF-FB-1**	EPA 9320	531032		
92623290009	**GWC-2R**	EPA 9320	531032		
92623290001	**GWC-6R**	Total Radium Calculation	535443		
92623290002	**GWC-1R**	Total Radium Calculation	535443		
92623290003	**GWC-4R**	Total Radium Calculation	535443		
92623290004	**GLF-DUP-1**	Total Radium Calculation	535443		
92623290005	**GWC-5R**	Total Radium Calculation	535443		
92623290006	**GWC-3R**	Total Radium Calculation	535443		
92623290007	**GLF-EB-1**	Total Radium Calculation	535443		
92623290008	**GLF-FB-1**	Total Radium Calculation	535443		
92623290009	**GWC-2R**	Total Radium Calculation	535443		

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mech[illegible] ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Power

Project #:

WO# : 92623290

92623290

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

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

Date/Initials Person Examining Contents: 8/31/22 JM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☑ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.9 **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): 1.9

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

pH Strip Lot# 10D4611

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

WO# : 92623290
PM: NMG Due Date: 09/22/22
CLIENT: GA-GA Power

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project

**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BPIN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																		2				
2		1	1			1																		2				
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11																												
12																												

pH Adjustment Log for Preserved Samples

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

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

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92623290

PM: NMG Due Date: 09/22/22

CLIENT: GA-GA Power

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

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

Date/Initials Person Examining Contents: 9/1/22 (DH)

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.5 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 2.5

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

pH Strip Lot# 10D4611

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

WO# : 92623290

PM: NMG Due Date: 09/22/22

CLIENT: GA-GA Power

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

Project #

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

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

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A	BP2U-500 mL Plastic Unpreserved (N/A	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9 3-9.7)	AG0U-100 mL Amber Unpreserved (N/A (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laycoker@southernco.com
Phone:	470.620.6176 Fax:
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Gypsum Landfill
Project Number:	

Section C — Invoice Information:

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

Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test: App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD (9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	GWC-6R	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
2	GWC-5R	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
3	GWC-1R	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
4	GWC-3R	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
5	GWC-4R	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
6	GWC-2R	WG	G	9/1/2022		-	-		5	2		3						X	X	X	X	X		pH:
7	GLF-EB-1	WG	G			-	-		5	2		3						X	X	X	X	X		pH: 5.25
8	GLF-FB-1	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
9	GLF-DUP-1	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
10		WG	G			-	-											X	X	X	X	X		pH:
11		WG	G			-	-																	
12		WG	G			-	-																	

ADDITIONAL COMMENTS

Anions Suite 300.0 (Cl, F, Sulfate)
App III Metals: Boron 6020B, Ca 6010D;
App I/II 6020B: Zn, Ag, Ni, V
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Arcadis	9/1/22	0880	Arcadis	9/1/22	0830	
Arcadis	9/1/22	0	Pace	9/1/22	0905	
Pace	9/1/22	1055		9/1/22	1055	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Layne Coker

SIGNATURE of SAMPLER: Layne Coker DATE Signed: 9/1/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A
Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax:
Requested Due Date:	

Section B
Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Gypsum Landfill
Project Number:	

Section C
Invoice Information:

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

Regulatory Agency
State / Location
Georgia

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	3240
1	GWC-6R	WG	G	8/30/22	1110	–	–		5	2		3							X	X	X	X	X		pH: 5.82
2	GWC-5R	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
3	GWC-1R	WG	G	8/30/22	1240	–	–		5	2		3							X	X	X	X	X		pH: 5.07
4	GWC-3R	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
5	GWC-4R	WG	G	8/30/22	1540	–	–		5	2		3							X	X	X	X	X		pH: 5.52
6	GWC-2R	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
7	GLF-EB-1	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
8	GLF-FB-1	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
9	GLF-DUP-1	WG	G	8/30/22	~~1530~~ ← 1540				5	2		3							X	X	X	X	X		pH: 5.52
10		WG	G			–	–																		
11		WG	G			–	–																		
12		WG	G			–	–																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate) David Prouty	[signature] /Arcadis	8/31/21	0803	[signature] / Pace A3	8/31/22	~~1035~~	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	[signature] A3	8/31/21	1023	Ryan Williams / Pace	8/4/22	1003	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	8/31/22	1153	[signature]	8/31/22	1153	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: David Prouty

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/31/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : Of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Gypsum Landfill	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	GWC-6R	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
2	GWC-5R	WG	G	8/30	1240	–	–		5	2		3							X	X	X	X	X		pH: 4.86
3	GWC-1R	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
4	GWC-3R	WG	G	8/30	1535	–	–		5	2		3							X	X	X	X	X		pH: 4.85
5	GWC-4R	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
6	GWC-2R	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
7	GLF-EB-1	WG	G	8/30	1600	–	–		5	2		3							X	X	X	X	X		pH:
8	GLF-FB-1	WG	G	8/30	1550	–	–		5	2		3							X	X	X	X	X		pH:
9	GLF-DUP-1	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
10		WG	G			–	–																		
11		WG	G			–	–																		
12		WG	G			–	–																		

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

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jake Swanson Arcadis	8/31/22	0800	AJ	8/31/22	800	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V		8/31/22	0003	Ryan Williams / Pace	9/1/22	003	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	8/31/22	1153		8/31/22	1153	

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:	Jake Swanson					
SIGNATURE of SAMPLER:		DATE Signed: 8/30/22				

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Gypsum Landfill
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency: State / Location: Georgia

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)
1	GWC-6R	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
2	GWC-5R	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
3	GWC-1R	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
4	GWC-3R	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
5	GWC-4R	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
6	GWC-2R	WG	G	9/1/2022	0925	–	–		5	2		3							X	X	X	X	X	pH: 5.25
7	GLF-EB-1	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
8	GLF-FB-1	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
9	GLF-DUP-1	WG	G			–	–		5	2		3							X	X	X	X	X	pH:
10		WG	G			–	–																	
11		WG	G			–	–																	
12		WG	G			–	–																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	9/1/22	0830	/Arcadis	9/1/22	0830	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	/Arcadis	9/1/22	0	Ryan Williams/Pace	9/1/22	0905	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams/Pace	9/1/22	1055				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Taylor Prouty

SIGNATURE of SAMPLER: Taylor Prouty DATE Signed: 9/1/22

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

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test: Ra-228
Analyst: VAL
Date: 9/12/2022
Worklist: 68747
Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2575663
MB concentration:	0.452
M/B 2 Sigma CSU:	0.381
MB MDC:	0.770
MB Numerical Performance Indicator:	2.33
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS68747	LCSD68747
Count Date:	9/21/2022	9/21/2022
Spike I.D.:	22-016	22-016
Decay Corrected Spike Concentration (pCi/mL):	34.253	34.253
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.830	0.818
Target Conc. (pCi/L, g, F):	4.128	4.189
Uncertainty (Calculated):	0.202	0.205
Result (pCi/L, g, F):	4.881	4.807
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.070	1.062
Numerical Performance Indicator:	1.36	1.12
Percent Recovery:	118.24%	114.75%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS68747	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD68747	
Sample Result (pCi/L, g, F):	4.881	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.070	
Sample Duplicate Result (pCi/L, g, F):	4.807	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.062	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.096	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.99%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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

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

Comments:

9/22/22

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	RMS
Date:	9/14/2022
Worklist:	68748
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2575664
MB concentration:	0.020
M/B Counting Uncertainty:	0.082
MB MDC:	0.206
MB Numerical Performance Indicator:	0.47
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS68748	LCSD68748
Count Date:	9/22/2022	9/22/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.023	24.023
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.507	0.504
Target Conc. (pCi/L, g, F):	4.735	4.765
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.026	5.252
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.529	0.529
Numerical Performance Indicator:	1.07	1.80
Percent Recovery:	106.13%	110.23%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS68748	92623290004
Duplicate Sample I.D.	LCSD68748	92623290004DUP
Sample Result (pCi/L, g, F):	5.026	0.076
Sample Result Counting Uncertainty (pCi/L, g, F):	0.529	0.087
Sample Duplicate Result (pCi/L, g, F):	5.252	-0.012
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.529	0.084
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.594	1.422
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.79%	273.72%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Fail***
% RPD Limit:	25%	25%

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

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

Comments:

***~~Batch must be re-prepped due to unacceptable precision.~~ N/A VAM 9/26/22

VAM 9/26/22

VAM 9/26/22

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

September 20, 2022

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

RE: Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between August 31, 2022 and September 01, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Nicole D'Oleo

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Noelia Gangi, Georgia Power
Geoffrey Gay, ARCADIS - Atlanta
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Michael Smilley, Georgia Power
Becky Steever, Arcadis
Albert Zumbuhl, Arcadis

REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Pace Analytical Services Charlotte
South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001

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

SAMPLE SUMMARY

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92623294001	**GWC-6R**	Water	08/30/22 11:10	08/31/22 11:03
92623294002	**GWC-1R**	Water	08/30/22 12:40	08/31/22 11:03
92623294003	**GWC-4R**	Water	08/30/22 15:40	08/31/22 11:03
92623294004	**GLF-DUP-1**	Water	08/30/22 15:40	08/31/22 11:03
92623294005	**GWC-5R**	Water	08/30/22 12:40	08/31/22 11:03
92623294006	**GWC-3R**	Water	08/30/22 15:35	08/31/22 11:03
92623294007	**GLF-EB-1**	Water	08/30/22 16:00	08/31/22 11:03
92623294008	**GLF-FB-1**	Water	08/30/22 15:50	08/31/22 11:03
92623294009	**GWC-2R**	Water	08/31/22 09:25	09/01/22 09:05

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

SAMPLE ANALYTE COUNT

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92623294001	**GWC-6R**	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623294002	**GWC-1R**	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623294003	**GWC-4R**	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623294004	**GLF-DUP-1**	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92623294005	**GWC-5R**	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92623294006	**GWC-3R**	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92623294007	**GLF-EB-1**	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92623294008	**GLF-FB-1**	EPA 6010D	KH	1
		EPA 6020B	CW1	18

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92623294009	**GWC-2R**	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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

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

SUMMARY OF DETECTION

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623294001	**GWC-6R**					
	Performed by	Customer			08/31/22 16:35	
	pH	5.82	Std. Units		08/31/22 16:35	
EPA 6010D	Calcium	40.6	mg/L	1.0	09/15/22 20:22	M1
EPA 6020B	Barium	0.028	mg/L	0.0050	09/17/22 19:28	
EPA 6020B	Boron	0.0092J	mg/L	0.040	09/17/22 19:28	
EPA 6020B	Chromium	0.0016J	mg/L	0.0050	09/17/22 19:28	
EPA 6020B	Lithium	0.0013J	mg/L	0.030	09/17/22 19:28	
SM 2540C-2015	Total Dissolved Solids	400	mg/L	25.0	09/02/22 11:12	
EPA 300.0 Rev 2.1 1993	Chloride	7.5	mg/L	1.0	09/08/22 04:40	
EPA 300.0 Rev 2.1 1993	Fluoride	0.064J	mg/L	0.10	09/08/22 04:40	
EPA 300.0 Rev 2.1 1993	Sulfate	174	mg/L	4.0	09/08/22 07:50	
92623294002	**GWC-1R**					
	Performed by	Customer			08/31/22 16:35	
	pH	5.07	Std. Units		08/31/22 16:35	
EPA 6010D	Calcium	189	mg/L	1.0	09/15/22 20:51	
EPA 6020B	Arsenic	0.0035J	mg/L	0.0050	09/17/22 19:33	
EPA 6020B	Barium	0.058	mg/L	0.0050	09/17/22 19:33	
EPA 6020B	Beryllium	0.00037J	mg/L	0.00050	09/17/22 19:33	
EPA 6020B	Boron	0.015J	mg/L	0.040	09/17/22 19:33	
EPA 6020B	Cadmium	0.00026J	mg/L	0.00050	09/17/22 19:33	
EPA 6020B	Chromium	0.0015J	mg/L	0.0050	09/17/22 19:33	
EPA 6020B	Cobalt	0.00087J	mg/L	0.0050	09/17/22 19:33	
EPA 6020B	Lithium	0.0019J	mg/L	0.030	09/17/22 19:33	
EPA 6020B	Nickel	0.0027J	mg/L	0.0050	09/17/22 19:33	
EPA 6020B	Selenium	0.030	mg/L	0.0050	09/17/22 19:33	
SM 2540C-2015	Total Dissolved Solids	1600	mg/L	125	09/02/22 11:13	
EPA 300.0 Rev 2.1 1993	Chloride	5.6	mg/L	1.0	09/08/22 04:54	
EPA 300.0 Rev 2.1 1993	Sulfate	994	mg/L	19.0	09/08/22 08:04	
92623294003	**GWC-4R**					
	Performed by	Customer			08/31/22 16:35	
	pH	5.52	Std. Units		08/31/22 16:35	
EPA 6010D	Calcium	55.8	mg/L	1.0	09/15/22 20:56	
EPA 6020B	Antimony	0.00094J	mg/L	0.0030	09/17/22 19:57	
EPA 6020B	Barium	0.022	mg/L	0.0050	09/17/22 19:57	
EPA 6020B	Beryllium	0.000072J	mg/L	0.00050	09/17/22 19:57	
EPA 6020B	Boron	4.4	mg/L	0.040	09/17/22 19:57	
EPA 6020B	Cadmium	0.00011J	mg/L	0.00050	09/17/22 19:57	
EPA 6020B	Cobalt	0.0020J	mg/L	0.0050	09/17/22 19:57	
EPA 6020B	Nickel	0.0021J	mg/L	0.0050	09/17/22 19:57	
EPA 6020B	Selenium	0.0038J	mg/L	0.0050	09/17/22 19:57	
EPA 7470A	Mercury	0.00014J	mg/L	0.00020	09/16/22 12:40	
SM 2540C-2015	Total Dissolved Solids	628	mg/L	50.0	09/02/22 11:13	
EPA 300.0 Rev 2.1 1993	Chloride	146	mg/L	3.0	09/08/22 08:18	
EPA 300.0 Rev 2.1 1993	Fluoride	0.050J	mg/L	0.10	09/08/22 05:08	
EPA 300.0 Rev 2.1 1993	Sulfate	155	mg/L	3.0	09/08/22 08:18	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623294004	**GLF-DUP-1**					
	Performed by	Customer			08/31/22 16:36	
	pH	5.52	Std. Units		08/31/22 16:36	
EPA 6010D	Calcium	57.8	mg/L	1.0	09/15/22 21:00	
EPA 6020B	Barium	0.021	mg/L	0.0050	09/17/22 20:03	
EPA 6020B	Beryllium	0.000062J	mg/L	0.00050	09/17/22 20:03	
EPA 6020B	Boron	4.2	mg/L	0.040	09/17/22 20:03	
EPA 6020B	Cobalt	0.0020J	mg/L	0.0050	09/17/22 20:03	
EPA 6020B	Nickel	0.0019J	mg/L	0.0050	09/17/22 20:03	
EPA 6020B	Selenium	0.0040J	mg/L	0.0050	09/17/22 20:03	
SM 2540C-2015	Total Dissolved Solids	608	mg/L	50.0	09/02/22 11:13	
EPA 300.0 Rev 2.1 1993	Chloride	134	mg/L	3.0	09/08/22 19:34	
EPA 300.0 Rev 2.1 1993	Fluoride	0.070J	mg/L	0.10	09/08/22 09:51	
EPA 300.0 Rev 2.1 1993	Sulfate	139	mg/L	3.0	09/08/22 19:34	
92623294005	**GWC-5R**					
	Performed by	Customer			08/31/22 16:36	
	pH	4.86	Std. Units		08/31/22 16:36	
EPA 6010D	Calcium	135	mg/L	1.0	09/15/22 21:05	
EPA 6020B	Arsenic	0.0035J	mg/L	0.0050	09/17/22 20:09	
EPA 6020B	Barium	0.010	mg/L	0.0050	09/17/22 20:09	
EPA 6020B	Beryllium	0.0032	mg/L	0.00050	09/17/22 20:09	
EPA 6020B	Boron	0.058	mg/L	0.040	09/17/22 20:09	
EPA 6020B	Cadmium	0.00098	mg/L	0.00050	09/17/22 20:09	
EPA 6020B	Chromium	0.0019J	mg/L	0.0050	09/17/22 20:09	
EPA 6020B	Cobalt	0.00077J	mg/L	0.0050	09/17/22 20:09	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	09/17/22 20:09	
EPA 6020B	Nickel	0.00097J	mg/L	0.0050	09/17/22 20:09	
EPA 6020B	Selenium	0.019	mg/L	0.0050	09/17/22 20:09	
EPA 6020B	Zinc	0.022	mg/L	0.010	09/17/22 20:09	
SM 2540C-2015	Total Dissolved Solids	1570	mg/L	125	09/02/22 11:13	
EPA 300.0 Rev 2.1 1993	Chloride	1.8	mg/L	1.0	09/08/22 10:06	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	09/08/22 10:06	
EPA 300.0 Rev 2.1 1993	Sulfate	939	mg/L	20.0	09/08/22 19:49	
92623294006	**GWC-3R**					
	Performed by	Customer			08/31/22 16:36	
	pH	4.85	Std. Units		08/31/22 16:36	
EPA 6010D	Calcium	17.5	mg/L	1.0	09/15/22 21:10	
EPA 6020B	Barium	0.010	mg/L	0.0050	09/17/22 20:27	
EPA 6020B	Beryllium	0.00056	mg/L	0.00050	09/17/22 20:27	
EPA 6020B	Boron	0.014J	mg/L	0.040	09/17/22 20:27	
EPA 6020B	Cadmium	0.00016J	mg/L	0.00050	09/17/22 20:27	
EPA 6020B	Cobalt	0.0021J	mg/L	0.0050	09/17/22 20:27	
EPA 6020B	Selenium	0.0068	mg/L	0.0050	09/17/22 20:27	
SM 2540C-2015	Total Dissolved Solids	150	mg/L	25.0	09/02/22 11:13	
EPA 300.0 Rev 2.1 1993	Chloride	3.1	mg/L	1.0	09/08/22 10:21	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	09/08/22 10:21	
EPA 300.0 Rev 2.1 1993	Sulfate	76.0	mg/L	1.0	09/08/22 10:21	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623294009	**GWC-2R**					
	Performed by	Customer			09/02/22 10:42	
	pH	5.23	Std. Units		09/02/22 10:42	
EPA 6010D	Calcium	46.9	mg/L	1.0	09/15/22 18:28	
EPA 6020B	Barium	0.026	mg/L	0.0050	09/17/22 21:15	
EPA 6020B	Beryllium	0.00023J	mg/L	0.00050	09/17/22 21:15	
EPA 6020B	Boron	0.19	mg/L	0.040	09/17/22 21:15	
EPA 6020B	Cadmium	0.00012J	mg/L	0.00050	09/17/22 21:15	
EPA 6020B	Cobalt	0.0036J	mg/L	0.0050	09/17/22 21:15	
EPA 6020B	Lithium	0.0042J	mg/L	0.030	09/17/22 21:15	
EPA 6020B	Selenium	0.0042J	mg/L	0.0050	09/17/22 21:15	
SM 2540C-2015	Total Dissolved Solids	510	mg/L	25.0	09/05/22 13:05	
EPA 300.0 Rev 2.1 1993	Chloride	14.5	mg/L	1.0	09/09/22 02:09	
EPA 300.0 Rev 2.1 1993	Sulfate	280	mg/L	6.0	09/09/22 08:15	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Sample: GWC-6R **Lab ID: 92623294001** Collected: 08/30/22 11:10 Received: 08/31/22 11:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/31/22 16:35		
pH	**5.82**	Std. Units			1		08/31/22 16:35		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**40.6**	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 20:22	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	09/16/22 11:43	09/17/22 19:28	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 19:28	7440-38-2	
Barium	**0.028**	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 19:28	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 19:28	7440-41-7	
Boron	**0.0092J**	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 19:28	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 19:28	7440-43-9	
Chromium	**0.0016J**	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 19:28	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 19:28	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	09/16/22 11:43	09/17/22 19:28	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 19:28	7439-92-1	
Lithium	**0.0013J**	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 19:28	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 19:28	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	09/16/22 11:43	09/17/22 19:28	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 19:28	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	09/16/22 11:43	09/17/22 19:28	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 19:28	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/16/22 11:43	09/17/22 19:28	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	09/16/22 11:43	09/17/22 19:28	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/16/22 08:15	09/16/22 12:21	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**400**	mg/L	25.0	10.0	1		09/02/22 11:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.5**	mg/L	1.0	0.60	1		09/08/22 04:40	16887-00-6	
Fluoride	**0.064J**	mg/L	0.10	0.050	1		09/08/22 04:40	16984-48-8	
Sulfate	**174**	mg/L	4.0	2.0	4		09/08/22 07:50	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Sample: GWC-1R **Lab ID: 92623294002** Collected: 08/30/22 12:40 Received: 08/31/22 11:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/31/22 16:35		
pH	**5.07**	Std. Units			1		08/31/22 16:35		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**189**	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 20:51	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	09/16/22 11:43	09/17/22 19:33	7440-36-0	
Arsenic	**0.0035J**	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 19:33	7440-38-2	
Barium	**0.058**	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 19:33	7440-39-3	
Beryllium	**0.00037J**	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 19:33	7440-41-7	
Boron	**0.015J**	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 19:33	7440-42-8	
Cadmium	**0.00026J**	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 19:33	7440-43-9	
Chromium	**0.0015J**	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 19:33	7440-47-3	
Cobalt	**0.00087J**	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 19:33	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	09/16/22 11:43	09/17/22 19:33	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 19:33	7439-92-1	
Lithium	**0.0019J**	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 19:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 19:33	7439-98-7	
Nickel	**0.0027J**	mg/L	0.0050	0.00071	1	09/16/22 11:43	09/17/22 19:33	7440-02-0	
Selenium	**0.030**	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 19:33	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	09/16/22 11:43	09/17/22 19:33	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 19:33	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/16/22 11:43	09/17/22 19:33	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	09/16/22 11:43	09/17/22 19:33	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/16/22 08:15	09/16/22 12:37	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1600**	mg/L	125	50.0	1		09/02/22 11:13		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.6**	mg/L	1.0	0.60	1		09/08/22 04:54	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 04:54	16984-48-8	
Sulfate	**994**	mg/L	19.0	9.5	19		09/08/22 08:04	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Sample: GWC-4R **Lab ID: 92623294003** Collected: 08/30/22 15:40 Received: 08/31/22 11:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/31/22 16:35		
pH	**5.52**	Std. Units			1		08/31/22 16:35		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**55.8**	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 20:56	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00094J**	mg/L	0.0030	0.00078	1	09/16/22 11:43	09/17/22 19:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 19:57	7440-38-2	
Barium	**0.022**	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 19:57	7440-39-3	
Beryllium	**0.000072J**	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 19:57	7440-41-7	
Boron	**4.4**	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 19:57	7440-42-8	
Cadmium	**0.00011J**	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 19:57	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 19:57	7440-47-3	
Cobalt	**0.0020J**	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 19:57	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	09/16/22 11:43	09/17/22 19:57	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 19:57	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 19:57	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 19:57	7439-98-7	
Nickel	**0.0021J**	mg/L	0.0050	0.00071	1	09/16/22 11:43	09/17/22 19:57	7440-02-0	
Selenium	**0.0038J**	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 19:57	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	09/16/22 11:43	09/17/22 19:57	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 19:57	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/16/22 11:43	09/17/22 19:57	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	09/16/22 11:43	09/17/22 19:57	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00014J**	mg/L	0.00020	0.00013	1	09/16/22 08:15	09/16/22 12:40	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**628**	mg/L	50.0	20.0	1		09/02/22 11:13		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**146**	mg/L	3.0	1.8	3		09/08/22 08:18	16887-00-6	
Fluoride	**0.050J**	mg/L	0.10	0.050	1		09/08/22 05:08	16984-48-8	
Sulfate	**155**	mg/L	3.0	1.5	3		09/08/22 08:18	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Sample: GLF-DUP-1 **Lab ID: 92623294004** Collected: 08/30/22 15:40 Received: 08/31/22 11:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/31/22 16:36		
pH	**5.52**	Std. Units			1		08/31/22 16:36		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**57.8**	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 21:00	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	09/16/22 11:43	09/17/22 20:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 20:03	7440-38-2	
Barium	**0.021**	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 20:03	7440-39-3	
Beryllium	**0.000062J**	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 20:03	7440-41-7	
Boron	**4.2**	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 20:03	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 20:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 20:03	7440-47-3	
Cobalt	**0.0020J**	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 20:03	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	09/16/22 11:43	09/17/22 20:03	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 20:03	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 20:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 20:03	7439-98-7	
Nickel	**0.0019J**	mg/L	0.0050	0.00071	1	09/16/22 11:43	09/17/22 20:03	7440-02-0	
Selenium	**0.0040J**	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 20:03	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	09/16/22 11:43	09/17/22 20:03	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 20:03	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/16/22 11:43	09/17/22 20:03	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	09/16/22 11:43	09/17/22 20:03	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/16/22 08:15	09/16/22 12:42	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**608**	mg/L	50.0	20.0	1		09/02/22 11:13		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**134**	mg/L	3.0	1.8	3		09/08/22 19:34	16887-00-6	
Fluoride	**0.070J**	mg/L	0.10	0.050	1		09/08/22 09:51	16984-48-8	
Sulfate	**139**	mg/L	3.0	1.5	3		09/08/22 19:34	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Sample: GWC-5R **Lab ID: 92623294005** Collected: 08/30/22 12:40 Received: 08/31/22 11:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/31/22 16:36		
pH	**4.86**	Std. Units			1		08/31/22 16:36		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**135**	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 21:05	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/16/22 11:43	09/17/22 20:09	7440-36-0	
Arsenic	**0.0035J**	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 20:09	7440-38-2	
Barium	**0.010**	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 20:09	7440-39-3	
Beryllium	**0.0032**	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 20:09	7440-41-7	
Boron	**0.058**	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 20:09	7440-42-8	
Cadmium	**0.00098**	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 20:09	7440-43-9	
Chromium	**0.0019J**	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 20:09	7440-47-3	
Cobalt	**0.00077J**	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 20:09	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	09/16/22 11:43	09/17/22 20:09	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 20:09	7439-92-1	
Lithium	**0.0014J**	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 20:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 20:09	7439-98-7	
Nickel	**0.00097J**	mg/L	0.0050	0.00071	1	09/16/22 11:43	09/17/22 20:09	7440-02-0	
Selenium	**0.019**	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 20:09	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	09/16/22 11:43	09/17/22 20:09	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 20:09	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/16/22 11:43	09/17/22 20:09	7440-62-2	
Zinc	**0.022**	mg/L	0.010	0.0070	1	09/16/22 11:43	09/17/22 20:09	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/16/22 08:15	09/16/22 12:45	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1570**	mg/L	125	50.0	1		09/02/22 11:13		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.8**	mg/L	1.0	0.60	1		09/08/22 10:06	16887-00-6	
Fluoride	**0.11**	mg/L	0.10	0.050	1		09/08/22 10:06	16984-48-8	
Sulfate	**939**	mg/L	20.0	10.0	20		09/08/22 19:49	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Sample: GWC-3R **Lab ID: 92623294006** Collected: 08/30/22 15:35 Received: 08/31/22 11:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/31/22 16:36		
pH	**4.85**	Std. Units			1		08/31/22 16:36		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**17.5**	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 21:10	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	09/16/22 11:43	09/17/22 20:27	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 20:27	7440-38-2	
Barium	**0.010**	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 20:27	7440-39-3	
Beryllium	**0.00056**	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 20:27	7440-41-7	
Boron	**0.014J**	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 20:27	7440-42-8	
Cadmium	**0.00016J**	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 20:27	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 20:27	7440-47-3	
Cobalt	**0.0021J**	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 20:27	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	09/16/22 11:43	09/17/22 20:27	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 20:27	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 20:27	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 20:27	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	09/16/22 11:43	09/17/22 20:27	7440-02-0	
Selenium	**0.0068**	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 20:27	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	09/16/22 11:43	09/17/22 20:27	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 20:27	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/16/22 11:43	09/17/22 20:27	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	09/16/22 11:43	09/17/22 20:27	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/16/22 08:15	09/16/22 12:47	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**150**	mg/L	25.0	10.0	1		09/02/22 11:13		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.1**	mg/L	1.0	0.60	1		09/08/22 10:21	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	0.050	1		09/08/22 10:21	16984-48-8	
Sulfate	**76.0**	mg/L	1.0	0.50	1		09/08/22 10:21	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Sample: GLF-EB-1 **Lab ID: 92623294007** Collected: 08/30/22 16:00 Received: 08/31/22 11:03 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	09/15/22 15:08	09/15/22 21:15	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	09/16/22 11:43	09/17/22 20:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 20:33	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 20:33	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 20:33	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 20:33	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 20:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 20:33	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 20:33	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	09/16/22 11:43	09/17/22 20:33	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 20:33	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 20:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 20:33	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	09/16/22 11:43	09/17/22 20:33	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 20:33	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	09/16/22 11:43	09/17/22 20:33	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 20:33	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/16/22 11:43	09/17/22 20:33	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	09/16/22 11:43	09/17/22 20:33	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/16/22 08:15	09/16/22 12:50	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/02/22 11:13		
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		09/08/22 10:37	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 10:37	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/08/22 10:37	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Sample: GLF-FB-1 **Lab ID: 92623294008** Collected: 08/30/22 15:50 Received: 08/31/22 11:03 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	09/15/22 15:08	09/15/22 21:29	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/16/22 11:43	09/17/22 20:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 20:39	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 20:39	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 20:39	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 20:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 20:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 20:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 20:39	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	09/16/22 11:43	09/17/22 20:39	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 20:39	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 20:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 20:39	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	09/16/22 11:43	09/17/22 20:39	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 20:39	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	09/16/22 11:43	09/17/22 20:39	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 20:39	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/16/22 11:43	09/17/22 20:39	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	09/16/22 11:43	09/17/22 20:39	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	0.00013	1	09/16/22 08:15	09/16/22 12:58	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		09/02/22 11:17		
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		09/08/22 11:57	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 11:57	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/08/22 11:57	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Sample: GWC-2R **Lab ID: 92623294009** Collected: 08/31/22 09:25 Received: 09/01/22 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/02/22 10:42		
pH	**5.23**	Std. Units			1		09/02/22 10:42		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**46.9**	mg/L	1.0	0.12	1	09/15/22 14:54	09/15/22 18:28	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/16/22 11:43	09/17/22 21:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 21:15	7440-38-2	
Barium	**0.026**	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 21:15	7440-39-3	
Beryllium	**0.00023J**	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 21:15	7440-41-7	
Boron	**0.19**	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 21:15	7440-42-8	
Cadmium	**0.00012J**	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 21:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 21:15	7440-47-3	
Cobalt	**0.0036J**	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 21:15	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	09/16/22 11:43	09/17/22 21:15	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 21:15	7439-92-1	
Lithium	**0.0042J**	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 21:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 21:15	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	09/16/22 11:43	09/17/22 21:15	7440-02-0	
Selenium	**0.0042J**	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 21:15	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	09/16/22 11:43	09/17/22 21:15	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 21:15	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	09/16/22 11:43	09/17/22 21:15	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	09/16/22 11:43	09/17/22 21:15	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/16/22 08:15	09/16/22 13:19	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**510**	mg/L	25.0	10.0	1		09/05/22 13:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**14.5**	mg/L	1.0	0.60	1		09/09/22 02:09	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/09/22 02:09	16984-48-8	
Sulfate	**280**	mg/L	6.0	3.0	6		09/09/22 08:15	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

QC Batch: 723576
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623294001, 92623294002, 92623294003, 92623294004, 92623294005, 92623294006, 92623294007, 92623294008

METHOD BLANK: 3770129 Matrix: Water
Associated Lab Samples: 92623294001, 92623294002, 92623294003, 92623294004, 92623294005, 92623294006, 92623294007, 92623294008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/15/22 20:13	

LABORATORY CONTROL SAMPLE: 3770130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3770131 3770132

Parameter	Units	92623294001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	40.6	1	1	40.6	40.8	1	25	75-125	1	20	M1

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

QC Batch: 723581
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623294009

METHOD BLANK: 3770156 Matrix: Water
Associated Lab Samples: 92623294009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/15/22 17:50	

LABORATORY CONTROL SAMPLE: 3770157

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3770158 3770159

Parameter	Units	92623538003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	105	1	1	104	104	-111	-62	75-125	0	20	M1

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

QC Batch: 723784
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623294001, 92623294002, 92623294003, 92623294004, 92623294005, 92623294006, 92623294007, 92623294008, 92623294009

METHOD BLANK: 3771287 Matrix: Water
Associated Lab Samples: 92623294001, 92623294002, 92623294003, 92623294004, 92623294005, 92623294006, 92623294007, 92623294008, 92623294009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/17/22 19:16	
Arsenic	mg/L	ND	0.0050	0.0022	09/17/22 19:16	
Barium	mg/L	ND	0.0050	0.00067	09/17/22 19:16	
Beryllium	mg/L	ND	0.00050	0.000054	09/17/22 19:16	
Boron	mg/L	ND	0.040	0.0086	09/17/22 19:16	
Cadmium	mg/L	ND	0.00050	0.00011	09/17/22 19:16	
Chromium	mg/L	ND	0.0050	0.0011	09/17/22 19:16	
Cobalt	mg/L	ND	0.0050	0.00039	09/17/22 19:16	
Copper	mg/L	ND	0.0050	0.0010	09/17/22 19:16	
Lead	mg/L	ND	0.0010	0.00089	09/17/22 19:16	
Lithium	mg/L	ND	0.030	0.00073	09/17/22 19:16	
Molybdenum	mg/L	ND	0.010	0.00074	09/17/22 19:16	
Nickel	mg/L	ND	0.0050	0.00071	09/17/22 19:16	
Selenium	mg/L	ND	0.0050	0.0014	09/17/22 19:16	
Silver	mg/L	ND	0.0050	0.00044	09/17/22 19:16	
Thallium	mg/L	ND	0.0010	0.00018	09/17/22 19:16	
Vanadium	mg/L	ND	0.010	0.0019	09/17/22 19:16	
Zinc	mg/L	ND	0.010	0.0070	09/17/22 19:16	

LABORATORY CONTROL SAMPLE: 3771288

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.096	96	80-120	
Barium	mg/L	0.1	0.098	98	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	0.10	100	80-120	
Chromium	mg/L	0.1	0.092	92	80-120	
Cobalt	mg/L	0.1	0.090	90	80-120	
Copper	mg/L	0.1	0.092	92	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Nickel	mg/L	0.1	0.091	91	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Silver	mg/L	0.1	0.097	97	80-120	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

LABORATORY CONTROL SAMPLE: 3771288

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	mg/L	0.1	0.097	97	80-120	
Vanadium	mg/L	0.1	0.093	93	80-120	
Zinc	mg/L	0.1	0.10	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3771521 3771522

Parameter	Units	92623294002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	105	102	75-125	2	20	
Arsenic	mg/L	0.0035J	0.1	0.1	0.10	0.10	100	100	75-125	0	20	
Barium	mg/L	0.058	0.1	0.1	0.16	0.16	98	100	75-125	1	20	
Beryllium	mg/L	0.00037J	0.1	0.1	0.093	0.090	93	90	75-125	3	20	
Boron	mg/L	0.015J	1	1	0.92	0.91	91	89	75-125	2	20	
Cadmium	mg/L	0.00026J	0.1	0.1	0.10	0.099	100	98	75-125	1	20	
Chromium	mg/L	0.0015J	0.1	0.1	0.097	0.093	95	92	75-125	4	20	
Cobalt	mg/L	0.00087J	0.1	0.1	0.096	0.092	96	91	75-125	5	20	
Copper	mg/L	ND	0.1	0.1	0.093	0.090	92	90	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.092	95	92	75-125	3	20	
Lithium	mg/L	0.0019J	0.1	0.1	0.099	0.096	97	94	75-125	3	20	
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.10	105	102	75-125	3	20	
Nickel	mg/L	0.0027J	0.1	0.1	0.096	0.093	94	91	75-125	3	20	
Selenium	mg/L	0.030	0.1	0.1	0.13	0.13	99	102	75-125	2	20	
Silver	mg/L	ND	0.1	0.1	0.089	0.089	89	89	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.096	0.093	96	93	75-125	4	20	
Vanadium	mg/L	ND	0.1	0.1	0.10	0.098	103	98	75-125	4	20	
Zinc	mg/L	ND	0.1	0.1	0.11	0.10	104	101	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

QC Batch: 723555
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623294001, 92623294002, 92623294003, 92623294004, 92623294005, 92623294006, 92623294007, 92623294008, 92623294009

METHOD BLANK: 3769985 Matrix: Water
Associated Lab Samples: 92623294001, 92623294002, 92623294003, 92623294004, 92623294005, 92623294006, 92623294007, 92623294008, 92623294009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/16/22 12:15	

LABORATORY CONTROL SAMPLE: 3769986

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3769987 3769988

Parameter	Units	92623294001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0022	90	88	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

QC Batch: 721194
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623294001, 92623294002, 92623294003, 92623294004, 92623294005, 92623294006, 92623294007, 92623294008

METHOD BLANK: 3757806 Matrix: Water
Associated Lab Samples: 92623294001, 92623294002, 92623294003, 92623294004, 92623294005, 92623294006, 92623294007, 92623294008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/02/22 11:11	

LABORATORY CONTROL SAMPLE: 3757807

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

SAMPLE DUPLICATE: 3757808

Parameter	Units	92623226001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	81.0	78.0	4	25	

SAMPLE DUPLICATE: 3757809

Parameter	Units	92623294003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	628	638	2	25	

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REPORT OF LABORATORY ANALYSIS

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(770)734-4200

QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

QC Batch: 721455
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623294009

METHOD BLANK: 3759030 Matrix: Water
Associated Lab Samples: 92623294009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/05/22 12:59	

LABORATORY CONTROL SAMPLE: 3759031

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	389	97	80-120	

SAMPLE DUPLICATE: 3759032

Parameter	Units	92623226010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	33.0	44.0	29	25	D6

SAMPLE DUPLICATE: 3759033

Parameter	Units	92623533001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	206	204	1	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

QC Batch: 721661
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92623294001, 92623294002, 92623294003

METHOD BLANK: 3760039 Matrix: Water
Associated Lab Samples: 92623294001, 92623294002, 92623294003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/07/22 22:22	
Fluoride	mg/L	ND	0.10	0.050	09/07/22 22:22	
Sulfate	mg/L	ND	1.0	0.50	09/07/22 22:22	

LABORATORY CONTROL SAMPLE: 3760040

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	
Fluoride	mg/L	2.5	2.3	91	90-110	
Sulfate	mg/L	50	49.6	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3760041 3760042

Parameter	Units	92622406016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.1	50	50	57.1	56.7	106	105	90-110	1	10	
Fluoride	mg/L	0.056J	2.5	2.5	2.4	2.4	93	93	90-110	0	10	
Sulfate	mg/L	47.3	50	50	98.1	99.8	101	105	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3760043 3760044

Parameter	Units	92623226003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	7.9	50	50	61.5	61.2	107	107	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	96	95	90-110	1	10	
Sulfate	mg/L	0.78J	50	50	54.0	53.6	106	106	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

QC Batch: 721852
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92623294004, 92623294005, 92623294006, 92623294007, 92623294008

METHOD BLANK: 3761017 Matrix: Water
Associated Lab Samples: 92623294004, 92623294005, 92623294006, 92623294007, 92623294008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/08/22 07:17	
Fluoride	mg/L	ND	0.10	0.050	09/08/22 07:17	
Sulfate	mg/L	ND	1.0	0.50	09/08/22 07:17	

LABORATORY CONTROL SAMPLE: 3761018

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	47.9	96	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3761019 3761020

Parameter	Units	92623573001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	50.3	51.2	99	101	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.8	2.8	108	107	90-110	1	10	
Sulfate	mg/L	ND	50	50	51.1	51.9	101	103	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

QC Batch: 722008
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92623294009

METHOD BLANK: 3761879 Matrix: Water
Associated Lab Samples: 92623294009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/08/22 21:58	
Fluoride	mg/L	ND	0.10	0.050	09/08/22 21:58	
Sulfate	mg/L	ND	1.0	0.50	09/08/22 21:58	

LABORATORY CONTROL SAMPLE: 3761880

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.2	100	90-110	
Fluoride	mg/L	2.5	2.4	94	90-110	
Sulfate	mg/L	50	50.1	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3761881 3761882

Parameter	Units	92623532006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.5	50	50	57.4	57.9	104	105	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	96	98	90-110	2	10	
Sulfate	mg/L	67.9	50	50	117	117	99	99	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3761883 3761884

Parameter	Units	92623294009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	14.5	50	50	66.1	66.6	103	104	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	94	95	90-110	0	10	
Sulfate	mg/L	280	50	50	326	329	93	100	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623294001	GWC-6R				
92623294002	GWC-1R				
92623294003	GWC-4R				
92623294004	GLF-DUP-1				
92623294005	GWC-5R				
92623294006	GWC-3R				
92623294009	GWC-2R				
92623294001	GWC-6R	EPA 3010A	723576	EPA 6010D	723671
92623294002	GWC-1R	EPA 3010A	723576	EPA 6010D	723671
92623294003	GWC-4R	EPA 3010A	723576	EPA 6010D	723671
92623294004	GLF-DUP-1	EPA 3010A	723576	EPA 6010D	723671
92623294005	GWC-5R	EPA 3010A	723576	EPA 6010D	723671
92623294006	GWC-3R	EPA 3010A	723576	EPA 6010D	723671
92623294007	GLF-EB-1	EPA 3010A	723576	EPA 6010D	723671
92623294008	GLF-FB-1	EPA 3010A	723576	EPA 6010D	723671
92623294009	GWC-2R	EPA 3010A	723581	EPA 6010D	723670
92623294001	GWC-6R	EPA 3005A	723784	EPA 6020B	723868
92623294002	GWC-1R	EPA 3005A	723784	EPA 6020B	723868
92623294003	GWC-4R	EPA 3005A	723784	EPA 6020B	723868
92623294004	GLF-DUP-1	EPA 3005A	723784	EPA 6020B	723868
92623294005	GWC-5R	EPA 3005A	723784	EPA 6020B	723868
92623294006	GWC-3R	EPA 3005A	723784	EPA 6020B	723868
92623294007	GLF-EB-1	EPA 3005A	723784	EPA 6020B	723868
92623294008	GLF-FB-1	EPA 3005A	723784	EPA 6020B	723868
92623294009	GWC-2R	EPA 3005A	723784	EPA 6020B	723868
92623294001	GWC-6R	EPA 7470A	723555	EPA 7470A	723745
92623294002	GWC-1R	EPA 7470A	723555	EPA 7470A	723745
92623294003	GWC-4R	EPA 7470A	723555	EPA 7470A	723745
92623294004	GLF-DUP-1	EPA 7470A	723555	EPA 7470A	723745
92623294005	GWC-5R	EPA 7470A	723555	EPA 7470A	723745
92623294006	GWC-3R	EPA 7470A	723555	EPA 7470A	723745
92623294007	GLF-EB-1	EPA 7470A	723555	EPA 7470A	723745
92623294008	GLF-FB-1	EPA 7470A	723555	EPA 7470A	723745
92623294009	GWC-2R	EPA 7470A	723555	EPA 7470A	723745
92623294001	GWC-6R	SM 2540C-2015	721194		
92623294002	GWC-1R	SM 2540C-2015	721194		
92623294003	GWC-4R	SM 2540C-2015	721194		
92623294004	GLF-DUP-1	SM 2540C-2015	721194		
92623294005	GWC-5R	SM 2540C-2015	721194		
92623294006	GWC-3R	SM 2540C-2015	721194		
92623294007	GLF-EB-1	SM 2540C-2015	721194		
92623294008	GLF-FB-1	SM 2540C-2015	721194		
92623294009	GWC-2R	SM 2540C-2015	721455		
92623294001	GWC-6R	EPA 300.0 Rev 2.1 1993	721661		
92623294002	GWC-1R	EPA 300.0 Rev 2.1 1993	721661		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Gypsum Landfill
Pace Project No.: 92623294

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623294003	**GWC-4R**	EPA 300.0 Rev 2.1 1993	721661		
92623294004	**GLF-DUP-1**	EPA 300.0 Rev 2.1 1993	721852		
92623294005	**GWC-5R**	EPA 300.0 Rev 2.1 1993	721852		
92623294006	**GWC-3R**	EPA 300.0 Rev 2.1 1993	721852		
92623294007	**GLF-EB-1**	EPA 300.0 Rev 2.1 1993	721852		
92623294008	**GLF-FB-1**	EPA 300.0 Rev 2.1 1993	721852		
92623294009	**GWC-2R**	EPA 300.0 Rev 2.1 1993	722008		

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Power

Project

WO# : 92623294

92623294

Courier: ☐ FedEx ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ Other:

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

Date/Initials Person Examining Contents: 8/31/22 JM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☑ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.9 **Correction Factor:** Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 1.9

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

pH Strip Lot# 10D4611

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

WO# : 92623294

PM: NMG Due Date: 09/15/22

CLIENT: GA-GA Power

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

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

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

***Check all unpreserved Nitrates for chlorine

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BPIN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1 ✓																			2				
2		1	1			1 ✓																			2				
3		1	1			1 ✓																			2				
4		1	1			1 ✓																			2				
5		1	1			1 ✓																			2				
6		1	1			1 ✓																			2				
7		1	1			1 ✓																			2				
8		1	1			1 ✓																			2				
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92623294

PM: NMG Due Date: 09/15/22

CLIENT: GA-GA Power

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

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

Date/Initials Person Examining Contents: 9/1/22 DH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.5 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 2.5

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

pH Strip Lot# 10D4611

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project # **WO# : 92623294**
PM: NMG Due Date: 09/15/22
CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A	BP2U-500 mL Plastic Unpreserved (N/A	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HC (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9 3-9.7)	AG0U-100 mL Amber Unpreserved (N/A (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																		2				
2																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 Of 1

Section A — Required Client Information:
- Company: GA Power
- Address: Atlanta, GA
- Email To: laucoker@southernco.com
- Phone: 470.620.6176 Fax:
- Requested Due Date:

Section B — Required Project Information:
- Report To: SCS Contacts
- Copy To: Arcadis Contacts
- Purchase Order #:
- Project Name: Plant Yates Gypsum Landfill
- Project Number:

Section C — Invoice Information:
- Attention: Southern Co.
- Company Name:
- Address:
- Pace Quote:
- Pace Project Manager: Nicole D'Oleo
- Pace Profile #: 10840

Regulatory Agency:

State / Location: Georgia

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

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	3294
1	GWC-6R	WG	G	8/30/22	1110	-	-		5	2		3					.		X	X	X	X	X		pH: 5.82
2	GWC-5R	WG	G			-	-		5	2		3							X	X	X	X	X		pH:
3	GWC-1R	WG	G	8/30/22	1240	-	-		5	2		3							X	X	X	X	X		pH: 5.07
4	GWC-3R	WG	G			-	-		5	2		3							X	X	X	X	X		pH:
5	GWC-4R	WG	G	8/30/22	1540	-	-		5	2		3							X	X	X	X	X		pH: 5.52
6	GWC-2R	WG	G			-	-		5	2		3							X	X	X	X	X		pH:
7	GLF-EB-1	WG	G			-	-		5	2		3							X	X	X	X	X		pH:
8	GLF-FB-1	WG	G			-	-		5	2		3							X	X	X	X	X		pH:
9	GLF-DUP-1	WG	G	8/30/22	~~1530~~ ← 1540				5	2		3							X	X	X	X	X		pH: 5.52
10		WG	G			-	-																		
11		WG	G			-	-																		
12		WG	G			-	-																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate) David Prouty	[signature] /Arcadis	8/31/21	0805	[signature] / Pace A-3	8/31/22	~~1003~~ 0805	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	[signature] A-3	8/31/21	1003	Ryan Williams / Pace	8/31/22	1003	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	8/31/22	1153	[signature]	8/31/22	1153	

SAMPLER NAME AND SIGNATURE
- PRINT Name of SAMPLER: David Prouty
- SIGNATURE of SAMPLER: [signature]
- DATE Signed: 8/31/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 of 1

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	jaycoker@southernco.com
Phone:	470.620.6176 Fax:
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Gypsum Landfill
Project Number:	

Section C — Invoice Information:

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

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test: App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD (9315/9320)	App I / II (gypsum only)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	GWC-6R	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
2	GWC-5R	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
3	GWC-1R	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
4	GWC-3R	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
5	GWC-4R	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
6	GWC-2R	WG	G	8/29/25		-	-		5	2		3						X	X	X	X	X		pH:
7	GLF-EB-1	WG	G			-	-		5	2		3						X	X	X	X	X		pH: 5.25
8	GLF-FB-1	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
9	GLF-DUP-1	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
10		WG	G			-	-																	pH:
11		WG	G			-	-																	
12		WG	G			-	-																	

ADDITIONAL COMMENTS

Anions Suite 300.0 (Cl, F, Sulfate)
App III Metals: Boron 6020B, Ca 6010D;
App I/II 6020B: Zn, Ag, Ni, V
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)
7040A: Mercury (Hg)

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Arcadis	9/1/22	0830		9/1/22	0830
Arcadis	9/1/22	0	Logan Williams / Pace	9/1/22	0905
Logan Williams / Pace	9/1/22	1055		9/1/22	1055

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Logan Williams

SIGNATURE of SAMPLER: [signature] DATE Signed: 9/1/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : Of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Gypsum Landfill	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency	
State / Location	Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	GWC-6R	WG	G			--	--		5	2		3							X	X	X	X	X		pH:
2	GWC-5R	WG	G	8/30	1240	--	--		5	2		3							X	X	X	X	X		pH: 4.86
3	GWC-1R	WG	G			--	--		5	2		3							X	X	X	X	X		pH:
4	GWC-3R	WG	G	8/30	1535	--	--		5	2		3							X	X	X	X	X		pH: 4 85
5	GWC-4R	WG	G			--	--		5	2		3							X	X	X	X	X		pH:
6	GWC-2R	WG	G			--	--		5	2		3							X	X	X	X	X		pH:
7	GLF-EB-1	WG	G	8/30	1600	--	--		5	2		3							X	X	X	X	X		pH:
8	GLF-FB-1	WG	G	8/30	1550	--	--		5	2		3							X	X	X	X	X		pH:
9	GLF-DUP-1	WG	G			--	--		5	2		3							X	X	X	X	X		pH:
10		WG	G			--	--																		
11		WG	G			--	--																		
12		WG	G			--	--																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Suite 300.0 (Cl, F, Sulfate)	Jake Swanson Arcadis	8/31/22	0800	AJ	8/31/22	800
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V		8/31/22	0003	Ryan Williams / Pace	9/1/22	0003
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	8/1/22	1153		8/31/22	1153

SAMPLER NAME AND SIGNATURE		
PRINT Name of SAMPLER:	Jake Swanson	
SIGNATURE of SAMPLER:		DATE Signed: 8/30/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Gypsum Landfill	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320		App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	GWC-6R	WG	G			-	-		5	2		3							X	X	X	X		X		pH:
2	GWC-5R	WG	G			-	-		5	2		3							X	X	X	X		X		pH:
3	GWC-1R	WG	G			-	-		5	2		3							X	X	X	X		X		pH:
4	GWC-3R	WG	G			-	-		5	2		3							X	X	X	X		X		pH:
5	GWC-4R	WG	G			-	-		5	2		3							X	X	X	X		X		pH:
6	GWC-2R	WG	G	8/30/22	0925	-	-		5	2		3							X	X	X	X		X		pH: 5.25
7	GLF-EB-1	WG	G			-	-		5	2		3							X	X	X	X		X		pH:
8	GLF-FB-1	WG	G			-	-		5	2		3							X	X	X	X		X		pH:
9	GLF-DUP-1	WG	G			-	-		5	2		3							X	X	X	X		X		pH:
10		WG	G			-	-																			
11		WG	G			-	-																			
12		WG	G			-	-																			

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	9/1/22	0830	/AES	9/1/22	0830	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	/AES	9/1/22	0	Ryan Williams/Pace	9/1/22	0905	
App IV. Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams/Pace	9/1/22	1055				

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:	Taylor Coutts					
SIGNATURE of SAMPLER:		DATE Signed: 9/1/22				

Upgradient Wells

August 2022

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92623226 and 92623277

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

Report #47077R
Review Level: Tier II
Project: 30143607.3A

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92623226 and 92623277 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YGWA-17S	92623226001 92623277001	Water	8/30/2022		X	X	X
YGWA-18S	92623226002 92623277002	Water	8/30/2022		X	X	X
YGWA-18I	92623226003 92623277003	Water	8/30/2022		X	X	X
GWA-2	92623226004 92623277004	Water	8/30/2022		X	X	X
YGWA-5I	92623226005 92623277005	Water	8/30/2022		X	X	X
YGWA-5D	92623226006 92623277006	Water	8/30/2022		X	X	X
YGWA-21I	92623226007 92623277007	Water	8/30/2022		X	X	X
YGWA-1D	92623226008 92623277008	Water	8/30/2022		X	X	X
YGWA-2I	92623226009 92623277009	Water	8/30/2022		X	X	X
YGWA-30I	92623226010 92623277010	Water	8/31/2022		X	X	X
YGWA-14S	92623226011 92623277011	Water	8/31/2022		X	X	X
YGWA-1L	92623226012 92623277012	Water	8/31/2022		X	X	X

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YGWA-47	92623226013 92623277013	Water	8/31/2022		X	X	X
YGWA-4I	92623226014 92623277014	Water	8/31/2022		X	X	X
YGWA-20S	92623226015 92623277015	Water	8/31/2022		X	X	X
YGWA-3I	92623226016 92623277018	Water	8/31/2022		X	X	X
YGWA-3D	92623226017 92623277019	Water	8/31/2022		X	X	X
YGWA-39	92623226018 92623277016	Water	8/31/2022		X	X	X
YGWA-40	92623226019 92623277017	Water	8/31/2022		X	X	X

Notes:

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

Analytical Data Package Documentation

The table below evaluates the data package completeness.

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

Note:
QA = quality assurance

Inorganic Analysis Introduction

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010D, 6020B, 7470A, 9315, and 9320; Standard Method (SM) SM4500-H+ B and SM2540C; and USEPA Method 300.0. Data were reviewed in accordance with USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma–Atomic Emission Spectroscopy and Inductively Coupled Plasma–Mass Spectroscopy (September 2011, Rev. 2), USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2), and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-45, October 2004, as appropriate).

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

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

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

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

Metals Analyses

1. Holding Times

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

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

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

Sample Locations	Analytes	Sample Result	Qualification
GWA-2	Vanadium (MB)	Detected sample results <RL and <BAL	“UB” at the RL

Notes:
MB = Method blank
RL = Reporting limit

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

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

3.1 MS/MSD Analysis

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

The MS/MSD analysis performed using sample YWGA-17S in association with SW-846 6010D analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample YGWA-18S in association with SW-846 6020B and SW-846 7470A analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed on sample location YGWA-5I in association with SW-846 6010D analysis exhibited recoveries outside of the acceptance limits as presented in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
YGWA-5I	Calcium	73%	AC (85%)

Note:
AC = Acceptable

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

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

3.2 Laboratory Duplicate Analysis

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

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

4. Field Duplicate Analysis

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

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

5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

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

Data Validation Checklist for Metals

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

Notes:

%R Percent recovery

RPD Relative percent difference

General Chemistry Analyses

1. Holding Times

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

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

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

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

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

3.1 MS/MSD Analysis

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

The MS/MSD analysis performed using samples YGWA-18I and YGWA-20S in association with anions analysis exhibited recoveries within the control limits.

3.2 Laboratory Duplicate Analysis

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

The laboratory duplicate analysis performed using samples YGWA-17S, YGWA-5D, and YGWA-30I in association with TDS analysis exhibited an RPD or difference in the results within the control limit.

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

4. Field Duplicate Analysis

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

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

5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

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

Data Validation Checklist for General Chemistry

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

Notes:

%R Percent recovery

RPD Relative percent difference

Radiological Analyses

1. Holding Times

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

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

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

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

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

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

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

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

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

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

Radium-228 was detected in the method blank at an activity greater than the uncertainty and MDC. The NAD was calculated for each sample. The Radium-228 results in samples YGWA-17S, YGWA-18S, YGWA-18I, GWA-2, YGWA-5I, YGWA-21I, YGWA-1D, YGWA-2I, and YGWA-3D were qualified as "J" since the NAD were less than 1.96. The Radium-228 results in sample YGWA-5D was qualified as "J" since the NAD was between 1.96 and 2.58. No qualifiers were assigned to the Radium-228 results in samples YGWA-30I, YGWA-14S, YGWA-1I, YGWA-47, YGWA-4I, YGWA-39, YGWA-40, and YGWA-3I since the activities were less than the MDC.

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

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

3.1 MS Analysis

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

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

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

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

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

Where:

x = measured concentration of the spiked sample.

x_0 = measured concentration of the unspiked sample.

c = spike concentration added.

$u^2(x)$, $u^2(x0)$, $u^2(c)$ = the squares of the respective standard uncertainties of these values.

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

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

3.2 Laboratory Duplicate Analysis

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

The numerical performance indicator for laboratory duplicates is calculated by:

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

Where:

x_1, x_2 = two measured activity concentrations.

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

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

The laboratory duplicate analysis performed on sample location YGWA-39 in association with SW-846 9315 analysis exhibited acceptable difference between the results.

The laboratory duplicate analysis performed on sample location YGWA-5D in association with SW-846 9320 analysis exhibited acceptable difference between the results.

4. Field Duplicate Analysis

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

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

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

5. Tracer or Carrier

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

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

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

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

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

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

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

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

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

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

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

7. Isotope Identification

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

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

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

- YGWA-17S, YGWA-18I, GWA-2 – Radium-226
- YGWA-41, YGWA-39, YGWA-3I – Radium-228

- YGWA-18S, YGWA-5I, YGWA-2I – Radium-226 and total Radium
- YGWA-47 – Radium-228 and total Radium
- YGWA-30I, YGWA-14S, YGWA-1I, YGWA-20S, YGWA-40 – Radium-226, Radium-228, and total Radium

8. System Performance and Overall Assessment

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

Data Validation Checklist for Radiologicals

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

Notes:

%R Percent recovery

RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE: 

DATE: November 8, 2022

PEER REVIEW: Dennis Capria

DATE: November 9, 2022

Chain of Custody / Data Qualifier Summary Table

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N)	Analyses Test	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	3226
	MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS																	Y/N								
1	YGWA-47	WG	G			--	--		5	2		3							X	X	X	X				pH:
2	GWA-2	WG	G			--	--		5	2		3							X	X	X	X		X		pH:
3	YGWA-4I	WG	G			--	--		5	2		3							X	X	X	X				pH:
4	YGWA-5I	WG	G			--	--		5	2		3							X	X	X	X				pH:
5	YGWA-5D	WG	G			--	--		5	2		3							X	X	X					pH:
6	YGWA-17S	WG	G	8/30	1540	--	--		5	2		3							X	X	X	X				pH: 4.68
7	YGWA-18S	WG	G	8/30	1010	--	--		5	2		3							X	X	X	X				pH: 5.18
8	YGWA-18I	WG	G	8/30	1335	--	--		5	2		3							X	X	X	X				pH: 5.82
9	YGWA-20S	WG	G			--	--		5	2		3							X	X	X	X				pH:
10	YGWA-21I	WG	G			--	--		5	2		3							X	X	X	X				pH:
11	YGWA-30I	WG	G			--	--		5	2		3							X	X	X	X				pH:
12	YGWA-14S	WG	G			--	--		5	2		3							X	X	X	X				pH:

sample time: 1 1010 2 3

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware / Arcadis	8/31/22	0750	Ryan Williams / Pace	9/1/22	0750	
App III Metals: Boron 6020B, Ca 6010D; App IMI 6020B: Zn, Ag, Ni, V		8/31/22	1002	Ryan Williams / Pace	9/1/22	1003	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	8/31/22	1153		9/1/22	1153	

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Jessica Ware					
SIGNATURE of SAMPLER:	Jessica Ware	DATE Signed: 8/31/22				

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency	
State / Location	Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320		App I / II (gypsum only)							Residual Chlorine (Y/N)	3226
1	YGWA-47	WG	G			--	--		5	2		3							X	X	X	X								pH:
2	GWA-2	WG	G	8/30	1005	--	--		5	2		3							X	X	X	X		X						pH: 5.39
3	YGWA-4I	WG	G			--	--		5	2		3							X	X	X	X								pH:
4	YGWA-5I	WG	G			--	--		5	2		3							X	X	X	X								pH:
5	YGWA-5D	WG	G			--	--		5	2		3							X	X	X									pH:
6	YGWA-17S	WG	G			--	--		5	2		3							X	X	X	X								pH:
7	YGWA-18S	WG	G			--	--		5	2		3							X	X	X	X								pH:
8	YGWA-18I	WG	G			--	--		5	2		3							X	X	X	X								pH:
9	YGWA-20S	WG	G			--	--		5	2		3							X	X	X	X								pH:
10	YGWA-21I	WG	G			--	--		5	2		3							X	X	X	X								pH:
11	YGWA-30I	WG	G			--	--		5	2		3							X	X	X	X								pH:
12	YGWA-14S	WG	G			--	--		5	2		3							X	X	X	X								pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/31/22	800	Arcadis	8/31/22	0800
App III Metals: Boron 6020B, Ca 6010D; App IV 6020B: Zn, Ag, Ni, V	AVS	8/31/22	1003	Ryan Williams / Pace	8/31/22	1003
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	8/31/22	1153		8/31/22	1153

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Jake Swanson		
SIGNATURE of SAMPLER:		DATE Signed:	8/31/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency	
State / Location	Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	
		MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS																	App III/IV Metals; Cl, F, SO4; TDS (2540C); RAD 9315/9320; App I / II (gypsum only)		
1	YGWA-47	WG	G			--	--		5	2		3							X X X X		pH:
2	GWA-2	WG	G			--	--		5	2		3							X X X X	X	pH:
3	YGWA-4I	WG	G			--	--		5	2		3							X X X X		pH:
4	YGWA-5I	WG	G	8/30/21	1052	--	--		5	2		3							X X X X		pH: 5.00
5	YGWA-5D	WG	G	8/30/21	1205	--	--		5	2		3							X X X		pH: 7.40
6	YGWA-17S	WG	G			--	--		5	2		3							X X X X		pH:
7	YGWA-18S	WG	G			--	--		5	2		3							X X X X		pH:
8	YGWA-18I	WG	G			--	--		5	2		3							X X X X		pH:
9	YGWA-20S	WG	G			--	--		5	2		3							X X X X		pH:
10	YGWA-21I	WG	G	8/30/21	1430	--	--		5	2		3							X X X X		pH: 6.58
11	YGWA-30I	WG	G			--	--		5	2		3							X X X X		pH:
12	YGWA-14S	WG	G			--	--		5	2		3							X X X X		pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/31/21	1003	Ryan Williams / Pace	8/31/22	1003	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	Ryan Williams / Pace	8/31/22	1153		8/31/22	1153	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Mark Chest					
SIGNATURE of SAMPLER:		DATE Signed: 8/31/21				

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:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency
State / Location
Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS																									
1	YGWA-39	WG	G			--	--		5	2		3						X	X	X	X					pH:
2	YGWA-40	WG	G			--	--		5	2		3						X	X	X	X					pH:
3	YGWA-1I	WG	G			--	--		5	2		3						X	X	X	X					pH:
4	YGWA-1D	WG	G	8/30	1350	--	--		5	2		3						X	X	X	X					pH: 7.2
5	YGWA-2I	WG	G	8-30	1000	--	--		5	2		3						X	X	X	X					pH: 7.04
6	YGWA-3I	WG	G			--	--		5	2		3						X	X	X	X					pH:
7	YGWA-3D	WG	G			--	--		5	2		3						X	X	X	X					pH:
8						--	--																			pH:
9						--	--																			pH:
10						--	--																			pH:
11						--	--																			
12						--	--																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Abigail Carson /Arcadis	8/31/22	800	[signature] AWS	8/31/22	800	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	[signature] AWS	8/31/22	1003	Ryan Williams / Pace	8/31/22	1003	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	8/31/22	1153	[signature]	8/31/22	1153	

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:	Abigail Carson					
SIGNATURE of SAMPLER:	[signature]	DATE Signed: 8/31				

2377
3226

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A
Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax
Requested Due Date:	

Section B
Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C
Invoice Information:

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

Regulatory Agency: —
State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320		App I / II (gypsum only)						Residual Chlorine (Y/N)	
1	YGWA-47	WG	G			–	–		5	2		3							X	X	X	X								pH:
2	GWA-2	WG	G			–	–		5	2		3							X	X	X	X		X						pH:
3	YGWA-4I	WG	G			–	–		5	2		3							X	X	X	X								pH:
4	YGWA-5I	WG	G			–	–		5	2		3							X	X	X	X								pH:
5	YGWA-5D	WG	G			–	–		5	2		3							X	X	X	·								pH:
6	YGWA-17S	WG	G			–	–		5	2		3							X	X	X	X								pH:
7	YGWA-18S	WG	G			–	–		5	2		3							X	X	X	X								pH:
8	YGWA-18I	WG	G			–	–		5	2		3							X	X	X	X								pH:
9	YGWA-20S	WG	G			–	–		5	2		3							X	X	X	X								pH:
10	YGWA-21I	WG	G			–	–		5	2		3							X	X	X	X								pH:
11	YGWA-30I	WG	G	8/31	1130	–	–		5	2		3							X	X	X	X								pH: 5.87
12	YGWA-14S	WG	G	9/1	1415	–	–		5	2		3							X	X	X	X								pH: 5.15

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carter /Arcadis	9/1/22	0800	[signature] AWS	9/1/22	800	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	[signature] AWS			Ryan Williams / Pace	9/1/22	0905	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	9/1/22	1053				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Khalil Carter

SIGNATURE of SAMPLER: [signature] DATE Signed: 9/1

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

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-39	WG	G			--	--		5	2		3						X	X	X	X				pH:
2	YGWA-40	WG	G			--	--		5	2		3						X	X	X	X				pH:
3	YGWA-1I	WG	G	9/31	0916	--	--		5	2		3						X	X	X	X				pH: 5.64
4	YGWA-1D	WG	G			--	--		5	2		3						X	X	X	X				pH:
5	YGWA-2I	WG	G			--	--		5	2		3						X	X	X	X				pH:
6	YGWA-3I	WG	G			--	--		5	2		3						X	X	X	X				pH:
7	YGWA-3D	WG	G			--	--		5	2		3						X	X	X	X				pH:
8						--	--																		pH:
9						--	--																		pH:
10						--	--																		pH:
11						--	--																		
12						--	--																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carson /Arcadis	9/1/22	0800	[signature]	9/1/22	0800
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	[signature] /Arcadis	9/1/22		Ryan Williams / Pace	9/1/22	0905
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	9/1/22	1056			

SAMPLER NAME AND SIGNATURE				SAMPLE CONDITIONS				
PRINT Name of SAMPLER:	Khalil Carson			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)	
SIGNATURE of SAMPLER:	[signature]	DATE Signed:	9/1					

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency: State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-47	WG	G	8/31	0915	–	–		5	2		3							X	X	X	X			pH: 5.32
2	GWA-2	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
3	YGWA-4I	WG	G			–	–		5	2		3							X	X	X	X			pH:
4	YGWA-5I	WG	G			–	–		5	2		3							X	X	X	X			pH:
5	YGWA-5D	WG	G			–	–		5	2		3							X	X	X	·			pH:
6	YGWA-17S	WG	G			–	–		5	2		3							X	X	X	X			pH:
7	YGWA-18S	WG	G			–	–		5	2		3							X	X	X	X			pH:
8	YGWA-18I	WG	G			–	–		5	2		3							X	X	X	X			pH:
9	YGWA-20S	WG	G			–	–		5	2		3							X	X	X	X			pH:
10	YGWA-21I	WG	G			–	–		5	2		3							X	X	X	X			pH:
11	YGWA-30I	WG	G			–	–		5	2		3							X	X	X	X			pH:
12	YGWA-14S	WG	G			–	–		5	2		3							X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	9/1/22	0800	AS	9/1/22	0800	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	AS	9/1/22		Ryan Williams / Pace	9/1/22	0905	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	9/1/22	1056				

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:	Jake Swanson					
SIGNATURE of SAMPLER:		DATE Signed: 9/1/22				

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-47	WG	G			-	-		5	2		3							X	X	X	X			pH:
2	GWA-2	WG	G			-	-		5	2		3							X	X	X	X	X		pH:
3	YGWA-4I	WG	G	8/31	1537	-	-		5	2		3							X	X	X	X			pH: 5.50
4	YGWA-5I	WG	G			-	-		5	2		3							X	X	X	X			pH:
5	YGWA-5D	WG	G			-	-		5	2		3							X	X	X	·			pH:
6	YGWA-17S	WG	G			-	-		5	2		3							X	X	X	X			pH:
7	YGWA-18S	WG	G			-	-		5	2		3							X	X	X	X			pH:
8	YGWA-18I	WG	G			-	-		5	2		3							X	X	X	X			pH:
9	YGWA-20S	WG	G	8/31	1257	-	-		5	2		3							X	X	X	X			pH: 5.38
10	YGWA-21I	WG	G			-	-		5	2		3							X	X	X	X			pH:
11	YGWA-30I	WG	G			-	-		5	2		3							X	X	X	X			pH:
12	YGWA-14S	WG	G			-	-		5	2		3							X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware /Arcadis	8/1/22	0300	[signature] Ace	8/1/22	0200	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	[signature] /ACS	8/1/22		Ryan Williams/Pace	8/1/22	0905	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams/Pace	8/1/22	1055				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/1/22

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

3726

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	pH
1	YGWA-39	WG	G			–	–		5	2		3							X	X	X	X			pH:
2	YGWA-40	WG	G			–	–		5	2		3							X	X	X	X			pH:
3	YGWA-1I	WG	G			–	–		5	2		3							X	X	X	X			pH:
4	YGWA-1D	WG	G			–	–		5	2		3							X	X	X	X			pH:
5	YGWA-2I	WG	G			–	–		5	2		3							X	X	X	X			pH:
6	YGWA-3I	WG	G	8/31	1054	–	–		5	2		3							X	X	X	X			pH: 7.49
7	YGWA-3D	WG	G	8/31	0930	–	–		5	2		3							X	X	X	X			pH: 7.65
8						–	–																		pH:
9						–	–																		pH:
10						–	–																		pH:
11						–	–																		
12						–	–																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware /Arcadis	9/1/22	0800	[signature] /AS	9/1/22	0800	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	[signature] /AS	9/1/22		Ryan Williams /Pace	9/1/22	0905	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams /Pace	9/1/22	1055				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: Jessica Ware

DATE Signed: 9/1/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

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

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-39	WG	G	8/31/22	1350	–	–		5	2		3							X	X	X	X				pH: 5.30
2	YGWA-40	WG	G	8/31/22	1640	–	–		5	2		3							X	X	X	X				pH: 4.53
3	YGWA-1I	WG	G			–	–		5	2		3							X	X	X	X				pH:
4	YGWA-1D	WG	G			–	–		5	2		3							X	X	X	X				pH:
5	YGWA-2I	WG	G			–	–		5	2		3							X	X	X	X				pH:
6	YGWA-3I	WG	G			–	–		5	2		3							X	X	X	X				pH:
7	YGWA-3D	WG	G			–	–		5	2		3							X	X	X	X				pH:
8						–	–																			pH:
9						–	–																			pH:
10						–	–																			pH:
11						–	–																			
12						–	–																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	9/1/22		Ryan Williams / Pace	9/1/22	0905	
App III Metals: Boron 6020B, Ca 6010D. App VII 6020B: Zn, Ag, Ni, V	Ryan Williams / Pace	9/1/22	1065				
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chestnut

SIGNATURE of SAMPLER: [signature] DATE Signed: 9/1/22

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

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92623226	GWA-2	SW846 6020B	Vanadium	0.010	mgL	UB	Blank contamination
	YGWA-5I	SW846 6010D	Calcium	2.5	mgL	J	MS %R < LCL
	YGWA-5D	SW846 6010D	Calcium	24.8	mgL	J	MS %R < LCL
	YGWA-21I	SW846 6010D	Calcium	7.3	mgL	J	MS %R < LCL
	YGWA-1D	SW846 6010D	Calcium	14.9	mgL	J	MS %R < LCL
	YGWA-2I	SW846 6010D	Calcium	25.4	mgL	J	MS %R < LCL
	YGWA-30I	SW846 6010D	Calcium	1.3	mgL	J	MS %R < LCL
	YGWA-14S	SW846 6010D	Calcium	1.3	mgL	J	MS %R < LCL
	YGWA-1L	SW846 6010D	Calcium	1.9	mgL	J	MS %R < LCL
	YGWA-47	SW846 6010D	Calcium	9.6	mgL	J	MS %R < LCL
	YGWA-4I	SW846 6010D	Calcium	8.9	mgL	J	MS %R < LCL
	YGWA-20S	SW846 6010D	Calcium	2.4	mgL	J	MS %R < LCL
	YGWA-3I	SW846 6010D	Calcium	23.5	mgL	J	MS %R < LCL
	YGWA-3D	SW846 6010D	Calcium	28.7	mgL	J	MS %R < LCL
	YGWA-39	SW846 6010D	Calcium	16.3	mgL	J	MS %R < LCL
	YGWA-40	SW846 6010D	Calcium	6.2	mgL	J	MS %R < LCL
92623277	YGWA-17S	SW846 9320	Radium-228	0.964 +/- 0.357	pCi/L	J	Blank contamination
	YGWA-18S	SW846 9320	Radium-228	0.542 +/- 0.287	pCi/L	J	Blank contamination
	YGWA-18I	SW846 9320	Radium-228	0.961 +/- 0.372	pCi/L	J	Blank contamination
	GWA-2	SW846 9320	Radium-228	1.34 +/- 0.454	pCi/L	J	Blank contamination
	YGWA-5I	SW846 9320	Radium-228	0.644 +/- 0.326	pCi/L	J	Blank contamination
	YGWA-5D	SW846 9320	Radium-228	2.21 +/- 0.587	pCi/L	J	Blank contamination
	YGWA-21I	SW846 9320	Radium-228	0.959 +/- 0.367	pCi/L	J	Blank contamination
	YGWA-1D	SW846 9320	Radium-228	0.579 +/- 0.293	pCi/L	J	Blank contamination
	YGWA-2I	SW846 9320	Radium-228	0.612 +/- 0.309	pCi/L	J	Blank contamination
	YGWA-3D	SW846 9320	Radium-228	0.927 +/- 0.394	pCi/L	J	Blank contamination

Abbreviations:
%R = percent recovery
LCL = lower control limit
mg/L = milligrams per liter
MS = matrix spike
pCi/L = picoCuries per liter

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

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

October 04, 2022

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

RE: Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between August 31, 2022 and September 01, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

Nicole D'Oleo

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Noelia Gangi, Georgia Power
Geoffrey Gay, ARCADIS - Atlanta
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Michael Smilley, Georgia Power
Becky Steever, Arcadis
Tina Sullivan, ERM
Albert Zumbuhl, Arcadis

REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Pace Analytical Services Charlotte
South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001

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

SAMPLE SUMMARY

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92623226001	**YGWA-17S**	Water	08/30/22 15:40	08/31/22 11:03
92623226002	**YGWA-18S**	Water	08/30/22 10:10	08/31/22 11:03
92623226003	**YGWA-18I**	Water	08/30/22 13:35	08/31/22 11:03
92623226004	**GWA-2**	Water	08/30/22 10:05	08/31/22 11:03
92623226005	**YGWA-5I**	Water	08/30/22 10:52	08/31/22 11:03
92623226006	**YGWA-5D**	Water	08/30/22 12:05	08/31/22 11:03
92623226007	**YGWA-21I**	Water	08/30/22 14:30	08/31/22 11:03
92623226008	**YGWA-1D**	Water	08/30/22 13:50	08/31/22 11:03
92623226009	**YGWA-2I**	Water	08/30/22 10:00	08/31/22 11:03
92623226010	**YGWA-30I**	Water	08/31/22 11:30	09/01/22 09:05
92623226011	**YGWA-14S**	Water	08/31/22 14:15	09/01/22 09:05
92623226012	**YGWA-1I**	Water	08/31/22 09:10	09/01/22 09:05
92623226013	**YGWA-47**	Water	08/31/22 09:15	09/01/22 09:05
92623226014	**YGWA-4I**	Water	08/31/22 15:37	09/01/22 09:05
92623226015	**YGWA-20S**	Water	08/31/22 12:57	09/01/22 09:05
92623226016	**YGWA-3I**	Water	08/31/22 10:54	09/01/22 09:05
92623226017	**YGWA-3D**	Water	08/31/22 09:30	09/01/22 09:05
92623226018	**YGWA-39**	Water	08/31/22 13:50	09/01/22 09:05
92623226019	**YGWA-40**	Water	08/31/22 16:40	09/01/22 09:05

Pace Analytical Services, LLC
110 Technology Parkway
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SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92623226001	**YGWA-17S**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226002	**YGWA-18S**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226003	**YGWA-18I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226004	**GWA-2**	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226005	**YGWA-5I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226006	**YGWA-5D**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226007	**YGWA-21I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226008	**YGWA-1D**	EPA 6010D	KH	1
		EPA 6020B	CW1	13

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SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226009	**YGWA-2I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226010	**YGWA-30I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226011	**YGWA-14S**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226012	**YGWA-1I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226013	**YGWA-47**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226014	**YGWA-4I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226015	**YGWA-20S**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226016	**YGWA-3I**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226017	**YGWA-3D**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226018	**YGWA-39**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226019	**YGWA-40**	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623226001	**YGWA-17S**					
	Performed by	Customer			08/31/22 15:58	
	pH	4.68	Std. Units		08/31/22 15:58	
EPA 6010D	Calcium	3.0	mg/L	1.0	09/12/22 21:17	
EPA 6020B	Barium	0.017	mg/L	0.0050	09/13/22 20:15	
EPA 6020B	Beryllium	0.00010J	mg/L	0.00050	09/13/22 20:15	
EPA 6020B	Boron	0.013J	mg/L	0.040	09/13/22 20:15	
SM 2540C-2015	Total Dissolved Solids	81.0	mg/L	25.0	09/02/22 11:11	
EPA 300.0 Rev 2.1 1993	Chloride	12.0	mg/L	1.0	09/08/22 01:38	
EPA 300.0 Rev 2.1 1993	Sulfate	4.7	mg/L	1.0	09/08/22 01:38	
92623226002	**YGWA-18S**					
	Performed by	Customer			08/31/22 15:58	
	pH	5.18	Std. Units		08/31/22 15:58	
EPA 6010D	Calcium	0.77J	mg/L	1.0	09/12/22 21:36	
EPA 6020B	Barium	0.012	mg/L	0.0050	09/16/22 15:01	
EPA 6020B	Beryllium	0.000082J	mg/L	0.00050	09/15/22 20:19	
EPA 6020B	Boron	0.014J	mg/L	0.040	09/15/22 20:19	
EPA 6020B	Chromium	0.0015J	mg/L	0.0050	09/15/22 20:19	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	09/15/22 20:19	
SM 2540C-2015	Total Dissolved Solids	52.0	mg/L	25.0	09/02/22 11:11	
EPA 300.0 Rev 2.1 1993	Chloride	7.0	mg/L	1.0	09/08/22 01:52	
EPA 300.0 Rev 2.1 1993	Sulfate	1.3	mg/L	1.0	09/08/22 01:52	
92623226003	**YGWA-18I**					
	Performed by	Customer			08/31/22 15:59	
	pH	5.82	Std. Units		08/31/22 15:59	
EPA 6010D	Calcium	5.7	mg/L	1.0	09/12/22 21:41	
EPA 6020B	Barium	0.017	mg/L	0.0050	09/15/22 20:43	
EPA 6020B	Lithium	0.0036J	mg/L	0.030	09/15/22 20:43	
SM 2540C-2015	Total Dissolved Solids	100	mg/L	25.0	09/02/22 11:11	
EPA 300.0 Rev 2.1 1993	Chloride	7.9	mg/L	1.0	09/08/22 02:06	
EPA 300.0 Rev 2.1 1993	Sulfate	0.78J	mg/L	1.0	09/08/22 02:06	
92623226004	**GWA-2**					
	Performed by	Customer			08/31/22 15:59	
	pH	5.39	Std. Units		08/31/22 15:59	
EPA 6010D	Calcium	23.5	mg/L	1.0	09/12/22 21:55	
EPA 6020B	Arsenic	0.0024J	mg/L	0.0050	09/15/22 20:49	
EPA 6020B	Barium	0.031	mg/L	0.0050	09/15/22 20:49	
EPA 6020B	Cobalt	0.075	mg/L	0.0050	09/15/22 20:49	
EPA 6020B	Lithium	0.0025J	mg/L	0.030	09/15/22 20:49	
EPA 6020B	Nickel	0.015	mg/L	0.0050	09/15/22 20:49	
EPA 6020B	Vanadium	0.0026J	mg/L	0.010	09/15/22 20:49	B
EPA 6020B	Zinc	0.011	mg/L	0.010	09/15/22 20:49	
SM 2540C-2015	Total Dissolved Solids	244	mg/L	25.0	09/02/22 11:12	
EPA 300.0 Rev 2.1 1993	Chloride	6.3	mg/L	1.0	09/08/22 02:48	
EPA 300.0 Rev 2.1 1993	Fluoride	0.086J	mg/L	0.10	09/08/22 02:48	
EPA 300.0 Rev 2.1 1993	Sulfate	101	mg/L	2.0	09/08/22 07:36	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623226005	**YGWA-5I**					
	Performed by	Customer			08/31/22 16:00	
	pH	5.00	Std. Units		08/31/22 16:00	
EPA 6010D	Calcium	2.5	mg/L	1.0	09/14/22 18:34	M1
EPA 6020B	Barium	0.017	mg/L	0.0050	09/15/22 20:55	
EPA 6020B	Lithium	0.0035J	mg/L	0.030	09/15/22 20:55	
SM 2540C-2015	Total Dissolved Solids	86.0	mg/L	25.0	09/02/22 11:12	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	09/08/22 03:02	
EPA 300.0 Rev 2.1 1993	Sulfate	2.4	mg/L	1.0	09/08/22 03:02	
92623226006	**YGWA-5D**					
	Performed by	Customer			08/31/22 16:00	
	pH	7.40	Std. Units		08/31/22 16:00	
EPA 6010D	Calcium	24.8	mg/L	1.0	09/14/22 18:53	
EPA 6020B	Arsenic	0.0031J	mg/L	0.0050	09/15/22 21:01	
EPA 6020B	Barium	0.0079	mg/L	0.0050	09/15/22 21:01	
EPA 6020B	Boron	0.0098J	mg/L	0.040	09/15/22 21:01	
EPA 6020B	Lithium	0.0068J	mg/L	0.030	09/15/22 21:01	
EPA 6020B	Molybdenum	0.00089J	mg/L	0.010	09/15/22 21:01	
SM 2540C-2015	Total Dissolved Solids	148	mg/L	25.0	09/06/22 14:51	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	09/08/22 03:44	
EPA 300.0 Rev 2.1 1993	Fluoride	0.085J	mg/L	0.10	09/08/22 03:44	
EPA 300.0 Rev 2.1 1993	Sulfate	5.7	mg/L	1.0	09/08/22 03:44	
92623226007	**YGWA-21I**					
	Performed by	Customer			08/31/22 16:00	
	pH	6.58	Std. Units		08/31/22 16:00	
EPA 6010D	Calcium	7.3	mg/L	1.0	09/14/22 18:58	
EPA 6020B	Antimony	0.0046	mg/L	0.0030	09/15/22 21:19	
EPA 6020B	Arsenic	0.0022J	mg/L	0.0050	09/15/22 21:19	
EPA 6020B	Barium	0.0085	mg/L	0.0050	09/15/22 21:19	
EPA 6020B	Boron	0.012J	mg/L	0.040	09/15/22 21:19	
EPA 6020B	Cobalt	0.0066	mg/L	0.0050	09/15/22 21:19	
EPA 6020B	Lithium	0.0079J	mg/L	0.030	09/15/22 21:19	
SM 2540C-2015	Total Dissolved Solids	122	mg/L	25.0	09/02/22 11:12	
EPA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	09/08/22 03:58	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	09/08/22 03:58	
EPA 300.0 Rev 2.1 1993	Sulfate	3.2	mg/L	1.0	09/08/22 03:58	
92623226008	**YGWA-1D**					
	Performed by	Customer			08/31/22 16:01	
	pH	7.2	Std. Units		08/31/22 16:01	
EPA 6010D	Calcium	14.9	mg/L	1.0	09/14/22 19:12	
EPA 6020B	Barium	0.0066	mg/L	0.0050	09/15/22 21:25	
EPA 6020B	Chromium	0.0011J	mg/L	0.0050	09/15/22 21:25	
EPA 6020B	Lithium	0.013J	mg/L	0.030	09/15/22 21:25	
EPA 6020B	Molybdenum	0.0094J	mg/L	0.010	09/15/22 21:25	
SM 2540C-2015	Total Dissolved Solids	116	mg/L	25.0	09/02/22 11:12	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	09/08/22 04:12	
EPA 300.0 Rev 2.1 1993	Fluoride	0.093J	mg/L	0.10	09/08/22 04:12	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623226008	**YGWA-1D**					
EPA 300.0 Rev 2.1 1993	Sulfate	10.2	mg/L	1.0	09/08/22 04:12	
92623226009	**YGWA-2I**					
	Performed by	Customer			08/31/22 16:01	
	pH	7.04	Std. Units		08/31/22 16:01	
EPA 6010D	Calcium	25.4	mg/L	1.0	09/14/22 19:17	
EPA 6020B	Arsenic	0.0027J	mg/L	0.0050	09/15/22 21:31	
EPA 6020B	Barium	0.0030J	mg/L	0.0050	09/15/22 21:31	
EPA 6020B	Lithium	0.0044J	mg/L	0.030	09/15/22 21:31	
EPA 6020B	Molybdenum	0.0068J	mg/L	0.010	09/15/22 21:31	
SM 2540C-2015	Total Dissolved Solids	153	mg/L	25.0	09/02/22 11:12	
EPA 300.0 Rev 2.1 1993	Chloride	1.2	mg/L	1.0	09/08/22 04:26	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	09/08/22 04:26	
EPA 300.0 Rev 2.1 1993	Sulfate	20.1	mg/L	1.0	09/08/22 04:26	
92623226010	**YGWA-30I**					
	Performed by	Customer			09/02/22 10:43	
	pH	5.87	Std. Units		09/02/22 10:43	
EPA 6010D	Calcium	1.3	mg/L	1.0	09/14/22 19:22	
EPA 6020B	Barium	0.0068	mg/L	0.0050	09/15/22 21:37	
EPA 6020B	Cobalt	0.0040J	mg/L	0.0050	09/15/22 21:37	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	09/15/22 21:37	
SM 2540C-2015	Total Dissolved Solids	33.0	mg/L	25.0	09/05/22 13:00	D6
EPA 300.0 Rev 2.1 1993	Chloride	1.8	mg/L	1.0	09/08/22 17:05	
EPA 300.0 Rev 2.1 1993	Fluoride	0.060J	mg/L	0.10	09/08/22 17:05	
EPA 300.0 Rev 2.1 1993	Sulfate	1.1	mg/L	1.0	09/08/22 17:05	
92623226011	**YGWA-14S**					
	Performed by	Customer			09/02/22 10:45	
	pH	5.15	Std. Units		09/02/22 10:45	
EPA 6010D	Calcium	1.3	mg/L	1.0	09/14/22 19:27	
EPA 6020B	Barium	0.0075	mg/L	0.0050	09/16/22 15:19	
EPA 6020B	Beryllium	0.00020J	mg/L	0.00050	09/16/22 15:19	
EPA 6020B	Boron	0.015J	mg/L	0.040	09/16/22 15:19	
SM 2540C-2015	Total Dissolved Solids	51.0	mg/L	25.0	09/05/22 13:00	
EPA 300.0 Rev 2.1 1993	Chloride	4.6	mg/L	1.0	09/08/22 17:47	
EPA 300.0 Rev 2.1 1993	Fluoride	0.053J	mg/L	0.10	09/08/22 17:47	
EPA 300.0 Rev 2.1 1993	Sulfate	5.8	mg/L	1.0	09/08/22 17:47	
92623226012	**YGWA-1I**					
	Performed by	Customer			09/02/22 10:45	
	pH	5.64	Std. Units		09/02/22 10:45	
EPA 6010D	Calcium	1.9	mg/L	1.0	09/14/22 19:31	
EPA 6020B	Barium	0.0074	mg/L	0.0050	09/16/22 15:25	
EPA 6020B	Cobalt	0.00085J	mg/L	0.0050	09/16/22 15:25	
EPA 6020B	Molybdenum	0.0055J	mg/L	0.010	09/16/22 15:25	
SM 2540C-2015	Total Dissolved Solids	46.0	mg/L	25.0	09/05/22 13:00	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	09/08/22 18:01	
EPA 300.0 Rev 2.1 1993	Fluoride	0.065J	mg/L	0.10	09/08/22 18:01	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623226012	**YGWA-1I**					
EPA 300.0 Rev 2.1 1993	Sulfate	4.8	mg/L	1.0	09/08/22 18:01	
92623226013	**YGWA-47**					
	Performed by	Customer			09/02/22 10:45	
	pH	5.32	Std. Units		09/02/22 10:45	
EPA 6010D	Calcium	9.6	mg/L	1.0	09/14/22 19:36	
EPA 6020B	Barium	0.029	mg/L	0.0050	09/16/22 15:30	
EPA 6020B	Boron	0.0091J	mg/L	0.040	09/16/22 15:30	
EPA 6020B	Cobalt	0.00096J	mg/L	0.0050	09/16/22 15:30	
EPA 6020B	Lithium	0.0037J	mg/L	0.030	09/16/22 15:30	
SM 2540C-2015	Total Dissolved Solids	116	mg/L	25.0	09/05/22 13:00	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	09/08/22 18:15	
EPA 300.0 Rev 2.1 1993	Fluoride	0.065J	mg/L	0.10	09/08/22 18:15	
EPA 300.0 Rev 2.1 1993	Sulfate	48.0	mg/L	1.0	09/08/22 18:15	
92623226014	**YGWA-4I**					
	Performed by	Customer			09/02/22 10:46	
	pH	5.50	Std. Units		09/02/22 10:46	
EPA 6010D	Calcium	8.9	mg/L	1.0	09/14/22 19:41	
EPA 6020B	Barium	0.013	mg/L	0.0050	09/16/22 15:36	
EPA 6020B	Lithium	0.013J	mg/L	0.030	09/16/22 15:36	
SM 2540C-2015	Total Dissolved Solids	92.0	mg/L	25.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	09/08/22 18:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.061J	mg/L	0.10	09/08/22 18:29	
EPA 300.0 Rev 2.1 1993	Sulfate	8.0	mg/L	1.0	09/08/22 18:29	
92623226015	**YGWA-20S**					
	Performed by	Customer			09/02/22 10:46	
	pH	5.38	Std. Units		09/02/22 10:46	
EPA 6010D	Calcium	2.4	mg/L	1.0	09/14/22 19:46	
EPA 6020B	Barium	0.011	mg/L	0.0050	09/15/22 22:07	
SM 2540C-2015	Total Dissolved Solids	62.0	mg/L	25.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	2.9	mg/L	1.0	09/08/22 18:43	
92623226016	**YGWA-3I**					
	Performed by	Customer			09/02/22 10:47	
	pH	7.49	Std. Units		09/02/22 10:47	
EPA 6010D	Calcium	23.5	mg/L	1.0	09/14/22 19:50	
EPA 6020B	Barium	0.0030J	mg/L	0.0050	09/15/22 22:12	
EPA 6020B	Lithium	0.022J	mg/L	0.030	09/16/22 15:48	
EPA 6020B	Molybdenum	0.0068J	mg/L	0.010	09/15/22 22:12	
SM 2540C-2015	Total Dissolved Solids	137	mg/L	25.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	09/08/22 19:24	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	09/08/22 19:24	
EPA 300.0 Rev 2.1 1993	Sulfate	13.9	mg/L	1.0	09/08/22 19:24	
92623226017	**YGWA-3D**					
	Performed by	Customer			09/02/22 10:47	
	pH	7.65	Std. Units		09/02/22 10:47	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623226017	**YGWA-3D**					
EPA 6010D	Calcium	28.7	mg/L	1.0	09/14/22 20:05	
EPA 6020B	Arsenic	0.0028J	mg/L	0.0050	09/15/22 22:30	
EPA 6020B	Barium	0.0048J	mg/L	0.0050	09/15/22 22:30	
EPA 6020B	Lithium	0.021J	mg/L	0.030	09/15/22 22:30	
EPA 6020B	Molybdenum	0.011	mg/L	0.010	09/15/22 22:30	
SM 2540C-2015	Total Dissolved Solids	141	mg/L	25.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	09/08/22 19:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.42	mg/L	0.10	09/08/22 19:38	
EPA 300.0 Rev 2.1 1993	Sulfate	6.9	mg/L	1.0	09/08/22 19:38	
92623226018	**YGWA-39**					
	Performed by	Customer			09/02/22 10:47	
	pH	5.30	Std. Units		09/02/22 10:47	
EPA 6010D	Calcium	16.3	mg/L	1.0	09/14/22 20:09	
EPA 6020B	Arsenic	0.0029J	mg/L	0.0050	09/15/22 22:36	
EPA 6020B	Barium	0.035	mg/L	0.0050	09/15/22 22:36	
EPA 6020B	Boron	0.14	mg/L	0.040	09/15/22 22:36	
EPA 6020B	Cadmium	0.00044J	mg/L	0.00050	09/15/22 22:36	
EPA 6020B	Cobalt	0.00085J	mg/L	0.0050	09/15/22 22:36	
EPA 6020B	Lithium	0.0065J	mg/L	0.030	09/15/22 22:36	
EPA 6020B	Molybdenum	0.0036J	mg/L	0.010	09/15/22 22:36	
SM 2540C-2015	Total Dissolved Solids	242	mg/L	25.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	6.7	mg/L	1.0	09/08/22 19:52	
EPA 300.0 Rev 2.1 1993	Fluoride	0.065J	mg/L	0.10	09/08/22 19:52	
EPA 300.0 Rev 2.1 1993	Sulfate	10.9	mg/L	1.0	09/08/22 19:52	
92623226019	**YGWA-40**					
	Performed by	Customer			09/02/22 10:47	
	pH	4.53	Std. Units		09/02/22 10:47	
EPA 6010D	Calcium	6.2	mg/L	1.0	09/14/22 20:14	
EPA 6020B	Barium	0.035	mg/L	0.0050	09/15/22 22:42	
EPA 6020B	Beryllium	0.00025J	mg/L	0.00050	09/15/22 22:42	
EPA 6020B	Boron	0.062	mg/L	0.040	09/15/22 22:42	
EPA 7470A	Mercury	0.00064	mg/L	0.00020	09/16/22 12:13	
SM 2540C-2015	Total Dissolved Solids	92.0	mg/L	25.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	6.3	mg/L	1.0	09/08/22 20:34	
EPA 300.0 Rev 2.1 1993	Fluoride	0.050J	mg/L	0.10	09/08/22 20:34	
EPA 300.0 Rev 2.1 1993	Sulfate	17.9	mg/L	1.0	09/08/22 20:34	

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-17S **Lab ID: 92623226001** Collected: 08/30/22 15:40 Received: 08/31/22 11:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/31/22 15:58		
pH	**4.68**	Std. Units			1		08/31/22 15:58		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**3.0**	mg/L	1.0	0.12	1	09/12/22 16:20	09/12/22 21:17	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/12/22 18:08	09/13/22 20:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/12/22 18:08	09/13/22 20:15	7440-38-2	
Barium	**0.017**	mg/L	0.0050	0.00067	1	09/12/22 18:08	09/13/22 20:15	7440-39-3	
Beryllium	**0.00010J**	mg/L	0.00050	0.000054	1	09/12/22 18:08	09/13/22 20:15	7440-41-7	
Boron	**0.013J**	mg/L	0.040	0.0086	1	09/12/22 18:08	09/13/22 20:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/12/22 18:08	09/13/22 20:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/12/22 18:08	09/13/22 20:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/12/22 18:08	09/13/22 20:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/12/22 18:08	09/13/22 20:15	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/12/22 18:08	09/13/22 20:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/12/22 18:08	09/13/22 20:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/12/22 18:08	09/13/22 20:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/12/22 18:08	09/13/22 20:15	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:06	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**81.0**	mg/L	25.0	10.0	1		09/02/22 11:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**12.0**	mg/L	1.0	0.60	1		09/08/22 01:38	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 01:38	16984-48-8	
Sulfate	**4.7**	mg/L	1.0	0.50	1		09/08/22 01:38	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-18S **Lab ID: 92623226002** Collected: 08/30/22 10:10 Received: 08/31/22 11:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/31/22 15:58		
pH	**5.18**	Std. Units			1		08/31/22 15:58		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**0.77J**	mg/L	1.0	0.12	1	09/12/22 16:20	09/12/22 21:36	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/16/22 15:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 20:19	7440-38-2	
Barium	**0.012**	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/16/22 15:01	7440-39-3	
Beryllium	**0.000082J**	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 20:19	7440-41-7	
Boron	**0.014J**	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 20:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 20:19	7440-43-9	
Chromium	**0.0015J**	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 20:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 20:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 20:19	7439-92-1	
Lithium	**0.0014J**	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 20:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/16/22 15:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 20:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 20:19	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**52.0**	mg/L	25.0	10.0	1		09/02/22 11:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.0**	mg/L	1.0	0.60	1		09/08/22 01:52	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 01:52	16984-48-8	
Sulfate	**1.3**	mg/L	1.0	0.50	1		09/08/22 01:52	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-18I **Lab ID: 92623226003** Collected: 08/30/22 13:35 Received: 08/31/22 11:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/31/22 15:59		
pH	**5.82**	Std. Units			1		08/31/22 15:59		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**5.7**	mg/L	1.0	0.12	1	09/12/22 16:20	09/12/22 21:41	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 20:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/16/22 15:07	7440-38-2	
Barium	**0.017**	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 20:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/16/22 15:07	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/16/22 15:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 20:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 20:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 20:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 20:43	7439-92-1	
Lithium	**0.0036J**	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 20:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 20:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/16/22 15:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 20:43	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:20	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**100**	mg/L	25.0	10.0	1		09/02/22 11:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.9**	mg/L	1.0	0.60	1		09/08/22 02:06	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 02:06	16984-48-8	
Sulfate	**0.78J**	mg/L	1.0	0.50	1		09/08/22 02:06	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: GWA-2 **Lab ID: 92623226004** Collected: 08/30/22 10:05 Received: 08/31/22 11:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/31/22 15:59		
pH	**5.39**	Std. Units			1		08/31/22 15:59		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**23.5**	mg/L	1.0	0.12	1	09/12/22 16:20	09/12/22 21:55	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 20:49	7440-36-0	
Arsenic	**0.0024J**	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 20:49	7440-38-2	
Barium	**0.031**	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 20:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 20:49	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 20:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 20:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 20:49	7440-47-3	
Cobalt	**0.075**	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 20:49	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	09/13/22 18:29	09/15/22 20:49	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 20:49	7439-92-1	
Lithium	**0.0025J**	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 20:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 20:49	7439-98-7	
Nickel	**0.015**	mg/L	0.0050	0.00071	1	09/13/22 18:29	09/15/22 20:49	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 20:49	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	09/13/22 18:29	09/15/22 20:49	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 20:49	7440-28-0	
Vanadium	**0.0026J**	mg/L	0.010	0.0019	1	09/13/22 18:29	09/15/22 20:49	7440-62-2	B
Zinc	**0.011**	mg/L	0.010	0.0070	1	09/13/22 18:29	09/15/22 20:49	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:23	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**244**	mg/L	25.0	10.0	1		09/02/22 11:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.3**	mg/L	1.0	0.60	1		09/08/22 02:48	16887-00-6	
Fluoride	**0.086J**	mg/L	0.10	0.050	1		09/08/22 02:48	16984-48-8	
Sulfate	**101**	mg/L	2.0	1.0	2		09/08/22 07:36	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-5I **Lab ID: 92623226005** Collected: 08/30/22 10:52 Received: 08/31/22 11:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/31/22 16:00		
pH	**5.00**	Std. Units			1		08/31/22 16:00		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**2.5**	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 18:34	7440-70-2	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 20:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 20:55	7440-38-2	
Barium	**0.017**	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 20:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 20:55	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 20:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 20:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/16/22 15:13	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/16/22 15:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 20:55	7439-92-1	
Lithium	**0.0035J**	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 20:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 20:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 20:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 20:55	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:31	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**86.0**	mg/L	25.0	10.0	1		09/02/22 11:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.4**	mg/L	1.0	0.60	1		09/08/22 03:02	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 03:02	16984-48-8	
Sulfate	**2.4**	mg/L	1.0	0.50	1		09/08/22 03:02	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-5D **Lab ID: 92623226006** Collected: 08/30/22 12:05 Received: 08/31/22 11:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/31/22 16:00		
pH	**7.40**	Std. Units			1		08/31/22 16:00		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**24.8**	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 18:53	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 21:01	7440-36-0	
Arsenic	**0.0031J**	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 21:01	7440-38-2	
Barium	**0.0079**	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 21:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 21:01	7440-41-7	
Boron	**0.0098J**	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 21:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 21:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 21:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:01	7439-92-1	
Lithium	**0.0068J**	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 21:01	7439-93-2	
Molybdenum	**0.00089J**	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 21:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 21:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:01	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:33	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**148**	mg/L	25.0	10.0	1		09/06/22 14:51		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.5**	mg/L	1.0	0.60	1		09/08/22 03:44	16887-00-6	
Fluoride	**0.085J**	mg/L	0.10	0.050	1		09/08/22 03:44	16984-48-8	
Sulfate	**5.7**	mg/L	1.0	0.50	1		09/08/22 03:44	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-21I **Lab ID: 92623226007** Collected: 08/30/22 14:30 Received: 08/31/22 11:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/31/22 16:00		
pH	**6.58**	Std. Units			1		08/31/22 16:00		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**7.3**	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 18:58	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0046**	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 21:19	7440-36-0	
Arsenic	**0.0022J**	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 21:19	7440-38-2	
Barium	**0.0085**	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 21:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 21:19	7440-41-7	
Boron	**0.012J**	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 21:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 21:19	7440-47-3	
Cobalt	**0.0066**	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 21:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:19	7439-92-1	
Lithium	**0.0079J**	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 21:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 21:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 21:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:19	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:36	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**122**	mg/L	25.0	10.0	1		09/02/22 11:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.4**	mg/L	1.0	0.60	1		09/08/22 03:58	16887-00-6	
Fluoride	**0.10**	mg/L	0.10	0.050	1		09/08/22 03:58	16984-48-8	
Sulfate	**3.2**	mg/L	1.0	0.50	1		09/08/22 03:58	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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Peachtree Corners, GA 30092
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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-1D **Lab ID: 92623226008** Collected: 08/30/22 13:50 Received: 08/31/22 11:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/31/22 16:01		
pH	**7.2**	Std. Units			1		08/31/22 16:01		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**14.9**	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:12	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 21:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 21:25	7440-38-2	
Barium	**0.0066**	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 21:25	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 21:25	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 21:25	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:25	7440-43-9	
Chromium	**0.0011J**	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 21:25	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 21:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:25	7439-92-1	
Lithium	**0.013J**	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 21:25	7439-93-2	
Molybdenum	**0.0094J**	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 21:25	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 21:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:25	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:39	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**116**	mg/L	25.0	10.0	1		09/02/22 11:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.3**	mg/L	1.0	0.60	1		09/08/22 04:12	16887-00-6	
Fluoride	**0.093J**	mg/L	0.10	0.050	1		09/08/22 04:12	16984-48-8	
Sulfate	**10.2**	mg/L	1.0	0.50	1		09/08/22 04:12	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-2I **Lab ID: 92623226009** Collected: 08/30/22 10:00 Received: 08/31/22 11:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		08/31/22 16:01		
pH	**7.04**	Std. Units			1		08/31/22 16:01		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**25.4**	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:17	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 21:31	7440-36-0	
Arsenic	**0.0027J**	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 21:31	7440-38-2	
Barium	**0.0030J**	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 21:31	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 21:31	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 21:31	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:31	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 21:31	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 21:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:31	7439-92-1	
Lithium	**0.0044J**	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 21:31	7439-93-2	
Molybdenum	**0.0068J**	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 21:31	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 21:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:31	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:41	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**153**	mg/L	25.0	10.0	1		09/02/22 11:12		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.2**	mg/L	1.0	0.60	1		09/08/22 04:26	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		09/08/22 04:26	16984-48-8	
Sulfate	**20.1**	mg/L	1.0	0.50	1		09/08/22 04:26	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-30I **Lab ID: 92623226010** Collected: 08/31/22 11:30 Received: 09/01/22 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/02/22 10:43		
pH	**5.87**	Std. Units			1		09/02/22 10:43		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**1.3**	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:22	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 21:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 21:37	7440-38-2	
Barium	**0.0068**	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 21:37	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 21:37	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 21:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 21:37	7440-47-3	
Cobalt	**0.0040J**	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 21:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:37	7439-92-1	
Lithium	**0.0012J**	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 21:37	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 21:37	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 21:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:37	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:44	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**33.0**	mg/L	25.0	10.0	1		09/05/22 13:00		D6
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.8**	mg/L	1.0	0.60	1		09/08/22 17:05	16887-00-6	
Fluoride	**0.060J**	mg/L	0.10	0.050	1		09/08/22 17:05	16984-48-8	
Sulfate	**1.1**	mg/L	1.0	0.50	1		09/08/22 17:05	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-14S **Lab ID: 92623226011** Collected: 08/31/22 14:15 Received: 09/01/22 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/02/22 10:45		
pH	**5.15**	Std. Units			1		09/02/22 10:45		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**1.3**	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:27	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/16/22 15:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 21:43	7440-38-2	
Barium	**0.0075**	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/16/22 15:19	7440-39-3	
Beryllium	**0.00020J**	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/16/22 15:19	7440-41-7	
Boron	**0.015J**	mg/L	0.040	0.0086	1	09/13/22 18:29	09/16/22 15:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/16/22 15:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/16/22 15:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:43	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/13/22 18:29	09/16/22 15:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/16/22 15:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 21:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:43	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:46	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**51.0**	mg/L	25.0	10.0	1		09/05/22 13:00		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.6**	mg/L	1.0	0.60	1		09/08/22 17:47	16887-00-6	
Fluoride	**0.053J**	mg/L	0.10	0.050	1		09/08/22 17:47	16984-48-8	
Sulfate	**5.8**	mg/L	1.0	0.50	1		09/08/22 17:47	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-1I **Lab ID: 92623226012** Collected: 08/31/22 09:10 Received: 09/01/22 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/02/22 10:45		
pH	**5.64**	Std. Units			1		09/02/22 10:45		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**1.9**	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:31	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/16/22 15:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/16/22 15:25	7440-38-2	
Barium	**0.0074**	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/16/22 15:25	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	09/13/22 18:29	09/17/22 03:08	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	09/13/22 18:29	09/17/22 03:08	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/16/22 15:25	7440-47-3	
Cobalt	**0.00085J**	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/16/22 15:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:49	7439-92-1	
Lithium	ND	mg/L	0.15	0.0036	5	09/13/22 18:29	09/17/22 03:08	7439-93-2	
Molybdenum	**0.0055J**	mg/L	0.010	0.00074	1	09/13/22 18:29	09/16/22 15:25	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/16/22 15:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:49	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:49	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**46.0**	mg/L	25.0	10.0	1		09/05/22 13:00		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.5**	mg/L	1.0	0.60	1		09/08/22 18:01	16887-00-6	
Fluoride	**0.065J**	mg/L	0.10	0.050	1		09/08/22 18:01	16984-48-8	
Sulfate	**4.8**	mg/L	1.0	0.50	1		09/08/22 18:01	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-47 **Lab ID: 92623226013** Collected: 08/31/22 09:15 Received: 09/01/22 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/02/22 10:45		
pH	**5.32**	Std. Units			1		09/02/22 10:45		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**9.6**	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:36	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/16/22 15:30	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/16/22 15:30	7440-38-2	
Barium	**0.029**	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/16/22 15:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/16/22 15:30	7440-41-7	
Boron	**0.0091J**	mg/L	0.040	0.0086	1	09/13/22 18:29	09/16/22 15:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/16/22 15:30	7440-47-3	
Cobalt	**0.00096J**	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/16/22 15:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:55	7439-92-1	
Lithium	**0.0037J**	mg/L	0.030	0.00073	1	09/13/22 18:29	09/16/22 15:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/16/22 15:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/16/22 15:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:55	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 11:52	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**116**	mg/L	25.0	10.0	1		09/05/22 13:00		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.5**	mg/L	1.0	0.60	1		09/08/22 18:15	16887-00-6	
Fluoride	**0.065J**	mg/L	0.10	0.050	1		09/08/22 18:15	16984-48-8	
Sulfate	**48.0**	mg/L	1.0	0.50	1		09/08/22 18:15	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-4I **Lab ID: 92623226014** Collected: 08/31/22 15:37 Received: 09/01/22 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/02/22 10:46		
pH	**5.50**	Std. Units			1		09/02/22 10:46		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**8.9**	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:41	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/16/22 15:36	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/16/22 15:36	7440-38-2	
Barium	**0.013**	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/16/22 15:36	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/16/22 15:36	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/16/22 15:36	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 22:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/16/22 15:36	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/16/22 15:36	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 22:01	7439-92-1	
Lithium	**0.013J**	mg/L	0.030	0.00073	1	09/13/22 18:29	09/16/22 15:36	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/16/22 15:36	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/16/22 15:36	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 22:01	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 12:00	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**92.0**	mg/L	25.0	10.0	1		09/05/22 13:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.4**	mg/L	1.0	0.60	1		09/08/22 18:29	16887-00-6	
Fluoride	**0.061J**	mg/L	0.10	0.050	1		09/08/22 18:29	16984-48-8	
Sulfate	**8.0**	mg/L	1.0	0.50	1		09/08/22 18:29	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-20S **Lab ID: 92623226015** Collected: 08/31/22 12:57 Received: 09/01/22 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/02/22 10:46		
pH	**5.38**	Std. Units			1		09/02/22 10:46		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**2.4**	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:46	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/16/22 15:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/16/22 15:42	7440-38-2	
Barium	**0.011**	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 22:07	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	09/13/22 18:29	09/17/22 03:14	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	09/13/22 18:29	09/17/22 03:14	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/16/22 15:42	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/16/22 15:42	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/16/22 15:42	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/16/22 15:42	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 22:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/16/22 15:42	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/16/22 15:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 22:07	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 12:02	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**62.0**	mg/L	25.0	10.0	1		09/05/22 13:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.9**	mg/L	1.0	0.60	1		09/08/22 18:43	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 18:43	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/08/22 18:43	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-3I **Lab ID: 92623226016** Collected: 08/31/22 10:54 Received: 09/01/22 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/02/22 10:47		
pH	**7.49**	Std. Units			1		09/02/22 10:47		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**23.5**	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:50	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 22:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 22:12	7440-38-2	
Barium	**0.0030J**	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 22:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/16/22 15:48	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/16/22 15:48	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 22:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 22:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 22:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 22:12	7439-92-1	
Lithium	**0.022J**	mg/L	0.030	0.00073	1	09/13/22 18:29	09/16/22 15:48	7439-93-2	
Molybdenum	**0.0068J**	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 22:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 22:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 22:12	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 12:05	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**137**	mg/L	25.0	10.0	1		09/05/22 13:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.3**	mg/L	1.0	0.60	1		09/08/22 19:24	16887-00-6	
Fluoride	**0.13**	mg/L	0.10	0.050	1		09/08/22 19:24	16984-48-8	
Sulfate	**13.9**	mg/L	1.0	0.50	1		09/08/22 19:24	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-3D **Lab ID: 92623226017** Collected: 08/31/22 09:30 Received: 09/01/22 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/02/22 10:47		
pH	**7.65**	Std. Units			1		09/02/22 10:47		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**28.7**	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 20:05	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 22:30	7440-36-0	
Arsenic	**0.0028J**	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 22:30	7440-38-2	
Barium	**0.0048J**	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 22:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 22:30	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 22:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 22:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 22:30	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 22:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 22:30	7439-92-1	
Lithium	**0.021J**	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 22:30	7439-93-2	
Molybdenum	**0.011**	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 22:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 22:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 22:30	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 12:07	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**141**	mg/L	25.0	10.0	1		09/05/22 13:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.3**	mg/L	1.0	0.60	1		09/08/22 19:38	16887-00-6	
Fluoride	**0.42**	mg/L	0.10	0.050	1		09/08/22 19:38	16984-48-8	
Sulfate	**6.9**	mg/L	1.0	0.50	1		09/08/22 19:38	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-39 **Lab ID: 92623226018** Collected: 08/31/22 13:50 Received: 09/01/22 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/02/22 10:47		
pH	**5.30**	Std. Units			1		09/02/22 10:47		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**16.3**	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 20:09	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 22:36	7440-36-0	
Arsenic	**0.0029J**	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 22:36	7440-38-2	
Barium	**0.035**	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 22:36	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 22:36	7440-41-7	
Boron	**0.14**	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 22:36	7440-42-8	
Cadmium	**0.00044J**	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 22:36	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 22:36	7440-47-3	
Cobalt	**0.00085J**	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 22:36	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 22:36	7439-92-1	
Lithium	**0.0065J**	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 22:36	7439-93-2	
Molybdenum	**0.0036J**	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 22:36	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 22:36	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 22:36	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 12:10	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**242**	mg/L	25.0	10.0	1		09/05/22 13:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.7**	mg/L	1.0	0.60	1		09/08/22 19:52	16887-00-6	
Fluoride	**0.065J**	mg/L	0.10	0.050	1		09/08/22 19:52	16984-48-8	
Sulfate	**10.9**	mg/L	1.0	0.50	1		09/08/22 19:52	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Sample: YGWA-40 **Lab ID: 92623226019** Collected: 08/31/22 16:40 Received: 09/01/22 09:05 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Customer**				1		09/02/22 10:47		
pH	**4.53**	Std. Units			1		09/02/22 10:47		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**6.2**	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 20:14	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 22:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 22:42	7440-38-2	
Barium	**0.035**	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 22:42	7440-39-3	
Beryllium	**0.00025J**	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 22:42	7440-41-7	
Boron	**0.062**	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 22:42	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 22:42	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 22:42	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 22:42	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 22:42	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 22:42	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 22:42	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 22:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 22:42	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00064**	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 12:13	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**92.0**	mg/L	25.0	10.0	1		09/05/22 13:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.3**	mg/L	1.0	0.60	1		09/08/22 20:34	16887-00-6	
Fluoride	**0.050J**	mg/L	0.10	0.050	1		09/08/22 20:34	16984-48-8	
Sulfate	**17.9**	mg/L	1.0	0.50	1		09/08/22 20:34	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

QC Batch: 722758
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623226001, 92623226002, 92623226003, 92623226004

METHOD BLANK: 3765944 Matrix: Water
Associated Lab Samples: 92623226001, 92623226002, 92623226003, 92623226004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/12/22 21:07	

LABORATORY CONTROL SAMPLE: 3765945

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3765946 3765947

Parameter	Units	92623226001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	3.0	1	1	4.0	4.1	96	107	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

QC Batch: 723071
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623226005, 92623226006, 92623226007, 92623226008, 92623226009, 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

METHOD BLANK: 3767576 Matrix: Water
Associated Lab Samples: 92623226005, 92623226006, 92623226007, 92623226008, 92623226009, 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/14/22 18:24	

LABORATORY CONTROL SAMPLE: 3767577

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3767578 3767579

Parameter	Units	92623226005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	2.5	1	1	3.3	3.4	73	85	75-125	4	20	M1

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

QC Batch: 722711
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623226001

METHOD BLANK: 3765581 Matrix: Water
Associated Lab Samples: 92623226001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00086J	0.0030	0.00078	09/13/22 18:33	
Arsenic	mg/L	ND	0.0050	0.0022	09/13/22 18:33	
Barium	mg/L	ND	0.0050	0.00067	09/13/22 18:33	
Beryllium	mg/L	ND	0.00050	0.000054	09/13/22 18:33	
Boron	mg/L	ND	0.040	0.0086	09/13/22 18:33	
Cadmium	mg/L	ND	0.00050	0.00011	09/13/22 18:33	
Chromium	mg/L	ND	0.0050	0.0011	09/13/22 18:33	
Cobalt	mg/L	ND	0.0050	0.00039	09/13/22 18:33	
Lead	mg/L	ND	0.0010	0.00089	09/13/22 18:33	
Lithium	mg/L	ND	0.030	0.00073	09/13/22 18:33	
Molybdenum	mg/L	ND	0.010	0.00074	09/13/22 18:33	
Selenium	mg/L	ND	0.0050	0.0014	09/13/22 18:33	
Thallium	mg/L	ND	0.0010	0.00018	09/13/22 18:33	

LABORATORY CONTROL SAMPLE: 3765582

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	111	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.11	106	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3765583 3765584

Parameter	Units	92622406019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	111	109	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3765583 3765584

Parameter	Units	92622406019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.064	0.1	0.1	0.17	0.17	108	103	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20	
Boron	mg/L	0.18	1	1	1.2	1.2	101	99	75-125	2	20	
Cadmium	mg/L	ND	0.1	0.1	0.099	0.099	98	99	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	1	20	
Cobalt	mg/L	0.0012J	0.1	0.1	0.099	0.099	98	97	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.094	0.096	94	96	75-125	2	20	
Lithium	mg/L	0.0013J	0.1	0.1	0.096	0.099	94	97	75-125	3	20	
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.10	106	103	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.097	0.097	97	96	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

QC Batch: 723035
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623226002, 92623226003, 92623226004, 92623226005, 92623226006, 92623226007, 92623226008, 92623226009, 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

METHOD BLANK: 3767331 Matrix: Water
Associated Lab Samples: 92623226002, 92623226003, 92623226004, 92623226005, 92623226006, 92623226007, 92623226008, 92623226009, 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/15/22 20:07	
Arsenic	mg/L	ND	0.0050	0.0022	09/15/22 20:07	
Barium	mg/L	ND	0.0050	0.00067	09/15/22 20:07	
Beryllium	mg/L	ND	0.00050	0.000054	09/15/22 20:07	
Boron	mg/L	ND	0.040	0.0086	09/15/22 20:07	
Cadmium	mg/L	ND	0.00050	0.00011	09/15/22 20:07	
Chromium	mg/L	ND	0.0050	0.0011	09/15/22 20:07	
Cobalt	mg/L	ND	0.0050	0.00039	09/15/22 20:07	
Copper	mg/L	ND	0.0050	0.0010	09/15/22 20:07	
Lead	mg/L	ND	0.0010	0.00089	09/15/22 20:07	
Lithium	mg/L	ND	0.030	0.00073	09/15/22 20:07	
Molybdenum	mg/L	ND	0.010	0.00074	09/15/22 20:07	
Nickel	mg/L	ND	0.0050	0.00071	09/15/22 20:07	
Selenium	mg/L	ND	0.0050	0.0014	09/15/22 20:07	
Silver	mg/L	ND	0.0050	0.00044	09/15/22 20:07	
Thallium	mg/L	ND	0.0010	0.00018	09/15/22 20:07	
Vanadium	mg/L	0.0021J	0.010	0.0019	09/15/22 20:07	
Zinc	mg/L	ND	0.010	0.0070	09/15/22 20:07	

LABORATORY CONTROL SAMPLE: 3767332

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	104	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	0.98	98	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Copper	mg/L	0.1	0.095	95	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.10	102	80-120	
Molybdenum	mg/L	0.1	0.096	96	80-120	
Nickel	mg/L	0.1	0.097	97	80-120	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

LABORATORY CONTROL SAMPLE: 3767332

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Selenium	mg/L	0.1	0.094	94	80-120	
Silver	mg/L	0.1	0.094	94	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	
Vanadium	mg/L	0.1	0.10	105	80-120	
Zinc	mg/L	0.1	0.10	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3767333 3767334

Parameter	Units	92623226002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.093	0.10	92	100	75-125	8	20	
Arsenic	mg/L	ND	0.1	0.1	0.096	0.098	95	97	75-125	3	20	
Barium	mg/L	0.012	0.1	0.1	0.097	0.11	85	94	75-125	9	20	
Beryllium	mg/L	0.000082J	0.1	0.1	0.095	0.095	95	95	75-125	0	20	
Boron	mg/L	0.014J	1	1	0.96	0.98	94	96	75-125	2	20	
Cadmium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20	
Chromium	mg/L	0.0015J	0.1	0.1	0.097	0.096	95	94	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.094	0.093	94	93	75-125	1	20	
Copper	mg/L	ND	0.1	0.1	0.096	0.093	96	93	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20	
Lithium	mg/L	0.0014J	0.1	0.1	0.097	0.10	96	98	75-125	3	20	
Molybdenum	mg/L	ND	0.1	0.1	0.087	0.094	87	94	75-125	8	20	
Nickel	mg/L	ND	0.1	0.1	0.096	0.093	96	93	75-125	3	20	
Selenium	mg/L	ND	0.1	0.1	0.090	0.093	90	93	75-125	3	20	
Silver	mg/L	ND	0.1	0.1	0.084	0.091	84	91	75-125	8	20	
Thallium	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	2	20	
Vanadium	mg/L	ND	0.1	0.1	0.10	0.10	99	99	75-125	0	20	
Zinc	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

QC Batch: 723525
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623226001, 92623226002, 92623226003, 92623226004, 92623226005, 92623226006, 92623226007, 92623226008, 92623226009, 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

METHOD BLANK: 3769763
Matrix: Water
Associated Lab Samples: 92623226001, 92623226002, 92623226003, 92623226004, 92623226005, 92623226006, 92623226007, 92623226008, 92623226009, 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/16/22 11:01	

LABORATORY CONTROL SAMPLE: 3769764

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3769765 3769766

Parameter	Units	92623226002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0023	96	90	75-125	7	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

QC Batch: 721194
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623226001, 92623226002, 92623226003, 92623226004, 92623226005, 92623226007, 92623226008, 92623226009

METHOD BLANK: 3757806 Matrix: Water
Associated Lab Samples: 92623226001, 92623226002, 92623226003, 92623226004, 92623226005, 92623226007, 92623226008, 92623226009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/02/22 11:11	

LABORATORY CONTROL SAMPLE: 3757807

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

SAMPLE DUPLICATE: 3757808

Parameter	Units	92623226001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	81.0	78.0	4	25	

SAMPLE DUPLICATE: 3757809

Parameter	Units	92623294003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	628	638	2	25	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

QC Batch: 721455
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

METHOD BLANK: 3759030 Matrix: Water
Associated Lab Samples: 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/05/22 12:59	

LABORATORY CONTROL SAMPLE: 3759031

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	389	97	80-120	

SAMPLE DUPLICATE: 3759032

Parameter	Units	92623226010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	33.0	44.0	29	25	D6

SAMPLE DUPLICATE: 3759033

Parameter	Units	92623533001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	206	204	1	25	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

QC Batch: 721563
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92623226006

METHOD BLANK: 3759489 Matrix: Water
Associated Lab Samples: 92623226006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/06/22 14:51	

LABORATORY CONTROL SAMPLE: 3759490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	387	97	80-120	

SAMPLE DUPLICATE: 3759491

Parameter	Units	92623226006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	148	139	6	25	

SAMPLE DUPLICATE: 3759492

Parameter	Units	92623533010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	128	119	7	25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

QC Batch: 721661
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92623226001, 92623226002, 92623226003, 92623226004, 92623226005, 92623226006, 92623226007, 92623226008, 92623226009

METHOD BLANK: 3760039 Matrix: Water
Associated Lab Samples: 92623226001, 92623226002, 92623226003, 92623226004, 92623226005, 92623226006, 92623226007, 92623226008, 92623226009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/07/22 22:22	
Fluoride	mg/L	ND	0.10	0.050	09/07/22 22:22	
Sulfate	mg/L	ND	1.0	0.50	09/07/22 22:22	

LABORATORY CONTROL SAMPLE: 3760040

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	
Fluoride	mg/L	2.5	2.3	91	90-110	
Sulfate	mg/L	50	49.6	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3760041 3760042

Parameter	Units	92622406016 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.1	50	50	57.1	56.7	106	105	90-110	1	10	
Fluoride	mg/L	0.056J	2.5	2.5	2.4	2.4	93	93	90-110	0	10	
Sulfate	mg/L	47.3	50	50	98.1	99.8	101	105	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3760043 3760044

Parameter	Units	92623226003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	7.9	50	50	61.5	61.2	107	107	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	96	95	90-110	1	10	
Sulfate	mg/L	0.78J	50	50	54.0	53.6	106	106	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

QC Batch: 722003
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

METHOD BLANK: 3761858 Matrix: Water
Associated Lab Samples: 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/08/22 14:59	
Fluoride	mg/L	ND	0.10	0.050	09/08/22 14:59	
Sulfate	mg/L	ND	1.0	0.50	09/08/22 14:59	

LABORATORY CONTROL SAMPLE: 3761859

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.4	99	90-110	
Fluoride	mg/L	2.5	2.7	109	90-110	
Sulfate	mg/L	50	49.9	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3761860 3761861

Parameter	Units	92623832001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	47.2	50	50	98.7	98.6	103	103	90-110	0	10	
Fluoride	mg/L	6.9	2.5	2.5	8.5	8.4	62	60	90-110	1	10	M1
Sulfate	mg/L	833	50	50	878	879	91	93	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3761862 3761863

Parameter	Units	92623226015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.9	50	50	55.6	56.1	105	106	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	96	97	90-110	1	10	
Sulfate	mg/L	ND	50	50	52.5	53.0	104	105	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALIFIERS

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B	Analyte was detected in the associated method blank.
D3	Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
D6	The precision between the sample and sample duplicate exceeded laboratory control limits.
M1	Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623226001	**YGWA-17S**				
92623226002	**YGWA-18S**				
92623226003	**YGWA-18I**				
92623226004	**GWA-2**				
92623226005	**YGWA-5I**				
92623226006	**YGWA-5D**				
92623226007	**YGWA-21I**				
92623226008	**YGWA-1D**				
92623226009	**YGWA-2I**				
92623226010	**YGWA-30I**				
92623226011	**YGWA-14S**				
92623226012	**YGWA-1I**				
92623226013	**YGWA-47**				
92623226014	**YGWA-4I**				
92623226015	**YGWA-20S**				
92623226016	**YGWA-3I**				
92623226017	**YGWA-3D**				
92623226018	**YGWA-39**				
92623226019	**YGWA-40**				
92623226001	**YGWA-17S**	EPA 3010A	722758	EPA 6010D	722798
92623226002	**YGWA-18S**	EPA 3010A	722758	EPA 6010D	722798
92623226003	**YGWA-18I**	EPA 3010A	722758	EPA 6010D	722798
92623226004	**GWA-2**	EPA 3010A	722758	EPA 6010D	722798
92623226005	**YGWA-5I**	EPA 3010A	723071	EPA 6010D	723278
92623226006	**YGWA-5D**	EPA 3010A	723071	EPA 6010D	723278
92623226007	**YGWA-21I**	EPA 3010A	723071	EPA 6010D	723278
92623226008	**YGWA-1D**	EPA 3010A	723071	EPA 6010D	723278
92623226009	**YGWA-2I**	EPA 3010A	723071	EPA 6010D	723278
92623226010	**YGWA-30I**	EPA 3010A	723071	EPA 6010D	723278
92623226011	**YGWA-14S**	EPA 3010A	723071	EPA 6010D	723278
92623226012	**YGWA-1I**	EPA 3010A	723071	EPA 6010D	723278
92623226013	**YGWA-47**	EPA 3010A	723071	EPA 6010D	723278
92623226014	**YGWA-4I**	EPA 3010A	723071	EPA 6010D	723278
92623226015	**YGWA-20S**	EPA 3010A	723071	EPA 6010D	723278
92623226016	**YGWA-3I**	EPA 3010A	723071	EPA 6010D	723278
92623226017	**YGWA-3D**	EPA 3010A	723071	EPA 6010D	723278
92623226018	**YGWA-39**	EPA 3010A	723071	EPA 6010D	723278
92623226019	**YGWA-40**	EPA 3010A	723071	EPA 6010D	723278
92623226001	**YGWA-17S**	EPA 3005A	722711	EPA 6020B	722836
92623226002	**YGWA-18S**	EPA 3005A	723035	EPA 6020B	723160
92623226003	**YGWA-18I**	EPA 3005A	723035	EPA 6020B	723160
92623226004	**GWA-2**	EPA 3005A	723035	EPA 6020B	723160
92623226005	**YGWA-5I**	EPA 3005A	723035	EPA 6020B	723160
92623226006	**YGWA-5D**	EPA 3005A	723035	EPA 6020B	723160
92623226007	**YGWA-21I**	EPA 3005A	723035	EPA 6020B	723160
92623226008	**YGWA-1D**	EPA 3005A	723035	EPA 6020B	723160
92623226009	**YGWA-2I**	EPA 3005A	723035	EPA 6020B	723160

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623226010	YGWA-30I	EPA 3005A	723035	EPA 6020B	723160
92623226011	YGWA-14S	EPA 3005A	723035	EPA 6020B	723160
92623226012	YGWA-1I	EPA 3005A	723035	EPA 6020B	723160
92623226013	YGWA-47	EPA 3005A	723035	EPA 6020B	723160
92623226014	YGWA-4I	EPA 3005A	723035	EPA 6020B	723160
92623226015	YGWA-20S	EPA 3005A	723035	EPA 6020B	723160
92623226016	YGWA-3I	EPA 3005A	723035	EPA 6020B	723160
92623226017	YGWA-3D	EPA 3005A	723035	EPA 6020B	723160
92623226018	YGWA-39	EPA 3005A	723035	EPA 6020B	723160
92623226019	YGWA-40	EPA 3005A	723035	EPA 6020B	723160
92623226001	YGWA-17S	EPA 7470A	723525	EPA 7470A	723743
92623226002	YGWA-18S	EPA 7470A	723525	EPA 7470A	723743
92623226003	YGWA-18I	EPA 7470A	723525	EPA 7470A	723743
92623226004	GWA-2	EPA 7470A	723525	EPA 7470A	723743
92623226005	YGWA-5I	EPA 7470A	723525	EPA 7470A	723743
92623226006	YGWA-5D	EPA 7470A	723525	EPA 7470A	723743
92623226007	YGWA-21I	EPA 7470A	723525	EPA 7470A	723743
92623226008	YGWA-1D	EPA 7470A	723525	EPA 7470A	723743
92623226009	YGWA-2I	EPA 7470A	723525	EPA 7470A	723743
92623226010	YGWA-30I	EPA 7470A	723525	EPA 7470A	723743
92623226011	YGWA-14S	EPA 7470A	723525	EPA 7470A	723743
92623226012	YGWA-1I	EPA 7470A	723525	EPA 7470A	723743
92623226013	YGWA-47	EPA 7470A	723525	EPA 7470A	723743
92623226014	YGWA-4I	EPA 7470A	723525	EPA 7470A	723743
92623226015	YGWA-20S	EPA 7470A	723525	EPA 7470A	723743
92623226016	YGWA-3I	EPA 7470A	723525	EPA 7470A	723743
92623226017	YGWA-3D	EPA 7470A	723525	EPA 7470A	723743
92623226018	YGWA-39	EPA 7470A	723525	EPA 7470A	723743
92623226019	YGWA-40	EPA 7470A	723525	EPA 7470A	723743
92623226001	YGWA-17S	SM 2540C-2015	721194		
92623226002	YGWA-18S	SM 2540C-2015	721194		
92623226003	YGWA-18I	SM 2540C-2015	721194		
92623226004	GWA-2	SM 2540C-2015	721194		
92623226005	YGWA-5I	SM 2540C-2015	721194		
92623226006	YGWA-5D	SM 2540C-2015	721563		
92623226007	YGWA-21I	SM 2540C-2015	721194		
92623226008	YGWA-1D	SM 2540C-2015	721194		
92623226009	YGWA-2I	SM 2540C-2015	721194		
92623226010	YGWA-30I	SM 2540C-2015	721455		
92623226011	YGWA-14S	SM 2540C-2015	721455		
92623226012	YGWA-1I	SM 2540C-2015	721455		
92623226013	YGWA-47	SM 2540C-2015	721455		
92623226014	YGWA-4I	SM 2540C-2015	721455		
92623226015	YGWA-20S	SM 2540C-2015	721455		
92623226016	YGWA-3I	SM 2540C-2015	721455		
92623226017	YGWA-3D	SM 2540C-2015	721455		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgradient-Revised Report
Pace Project No.: 92623226

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623226018	**YGWA-39**	SM 2540C-2015	721455		
92623226019	**YGWA-40**	SM 2540C-2015	721455		
92623226001	**YGWA-17S**	EPA 300.0 Rev 2.1 1993	721661		
92623226002	**YGWA-18S**	EPA 300.0 Rev 2.1 1993	721661		
92623226003	**YGWA-18I**	EPA 300.0 Rev 2.1 1993	721661		
92623226004	**GWA-2**	EPA 300.0 Rev 2.1 1993	721661		
92623226005	**YGWA-5I**	EPA 300.0 Rev 2.1 1993	721661		
92623226006	**YGWA-5D**	EPA 300.0 Rev 2.1 1993	721661		
92623226007	**YGWA-21I**	EPA 300.0 Rev 2.1 1993	721661		
92623226008	**YGWA-1D**	EPA 300.0 Rev 2.1 1993	721661		
92623226009	**YGWA-2I**	EPA 300.0 Rev 2.1 1993	721661		
92623226010	**YGWA-30I**	EPA 300.0 Rev 2.1 1993	722003		
92623226011	**YGWA-14S**	EPA 300.0 Rev 2.1 1993	722003		
92623226012	**YGWA-1I**	EPA 300.0 Rev 2.1 1993	722003		
92623226013	**YGWA-47**	EPA 300.0 Rev 2.1 1993	722003		
92623226014	**YGWA-4I**	EPA 300.0 Rev 2.1 1993	722003		
92623226015	**YGWA-20S**	EPA 300.0 Rev 2.1 1993	722003		
92623226016	**YGWA-3I**	EPA 300.0 Rev 2.1 1993	722003		
92623226017	**YGWA-3D**	EPA 300.0 Rev 2.1 1993	722003		
92623226018	**YGWA-39**	EPA 300.0 Rev 2.1 1993	722003		
92623226019	**YGWA-40**	EPA 300.0 Rev 2.1 1993	722003		

Pace	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Power

Project #:

WO# : 92623226

92623226

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

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

Date/Initials Person Examining Contents: 8/31/22 JM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☑ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.9 **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): 1.9

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

pH Strip Lot# 1004611

Person contacted: Date/Time:

Project Manager SCURF Review: **Date:**

Project Manager SRF Review: **Date:**

Qualtrax ID: 69614

WO# : 92623226

PM: NMG Due Date: 09/15/22

CLIENT: GA-GA Power

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

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

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

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																			2				
2		1	1			1																			2				
3		1	1			1																			2				
4		1	1			1																			2				
5		1	1			1																			2				
6		1	1			1																			2				
7		1	1			1																			2				
8		1	1			1																			2				
9		1	1			1																			2				
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

Pace	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mech... ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92623226

PM: NMG Due Date: 09/15/22

CLIENT: GA-GA Power

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

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

Date/Initials Person Examining Contents: 9/1/22 DAP

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.5 **Correction Factor:** Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 2.5

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

pH Strip Lot# 10D4611

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

~~*Check mark top half of box if pH and/or dechlorination is verified and~~ Project #

within the acceptance range for preservation samples.

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

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

***Check all unpreserved Nitrates for chlorine

WO#: 92623226

PM: NMG Due Date: 09/15/22

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A)(Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																		2				
2		1	1			1																		2				
3		1	1			1																		2				
4		1	1			1																		2				
5		1	1			1																		2				
6		1	1			1																		2				
7		1	1			1																		2				
8		1	1			1																		2				
9		1	1			1																		2				
10		1	1			1																		2				
11																												
12																												

pH Adjustment Log for Preserved Samples

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 of 1

Section A — Required Client Information:

Company: GA Power
Address: Atlanta, GA
Email To: jsucoski@southernco.com
Phone: 470.620.5176 Fax:
Requested Due Date:

Section B — Required Project Information:

Report To: SCS Contacts
Copy To: Arcadis Contacts
Purchase Order #:
Project Name: Plant Yates Piped Upgradient
Project Number:

Section C — Invoice Information:

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

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III/IV Metals	CL, F, SO4	TDS (25400)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	3277
	YGWA-4I	WG	G			-	-		5	2		3						X	X	X	X	X		# 5.39
	YGWA-5I	WG	G			-	-		5	2		3						X	X	X	X			#
	YGWA-5D	WG	G			-	-		5	2		3						X	X	X	X			#
	YGWA-17S	WG	G			-	-		5	2		3						X	X	X				#
	YGWA-18S	WG	G			-	-		5	2		3						X	X	X	X			#
	YGWA-18I	WG	G			-	-		5	2		3						X	X	X	X			#
	YGWA-20S	WG	G			-	-		5	2		3						X	X	X	X			#
	YGWA-21I	WG	G			-	-		5	2		3						X	X	X	X			#
	YGWA-30I	WG	G			-	-		5	2		3						X	X	X	X			#
12	YGWA-14S	WG	G			-	-		5	2		3						X	X	X	X			#

Antions: Suite 300.9 (Cl, F, Sulfate)
App III Metals: Boron 6020B, Ca 6010D.
App IV 6020B: Zn, Ag, Ni, V

App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)
7040A: Mercury (Hg)

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
	8/31/22	400	Arcadis	8/31/22	0800
AVS	8/31/22	1003	Ryan Williams / Pace	8/31/22	1003
Ryan Williams / Pace	8/31/22	1153		8/31/22	1153

PRINT Name of SAMPLER: Jake Sovanski
SIGNATURE of SAMPLER:
DATE Signed: 8/31/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 1

Section A — Required Client Information:

Company: GA Power
Address: Atlanta, GA
Email To: jeycoker@southernco.com
Phone: 470.620.6176 Fax
Requested Due Date:

Section B — Required Project Information:

Report To: SCS Contacts
Copy To: Arcadis Contacts
Purchase Order #:
Project Name: Plant Yates Pooled Upgradient
Project Number:

Section C — Invoice Information:

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

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III/V Metals	Cl, F, SO4	TDS (2540C)	RAD 226/228	App I / II (gypsum only)	Residual Chlorine (Y/N)	Pace Lab #
	YGWA-4I	WG	G			-	-		5	2		3						X	X	X	X	X		
	YGWA-2	WG	G			-	-		5	2		3						X	X	X	X	X		
	YGWA-4I	WG	G			-	-		5	2		3						X	X	X	X			
	YGWA-6I	WG	G			-	-		5	2		3						X	X	X	X			
5	YGWA-5D	WG	G			-	-		5	2		3						X	X	X	-			
6	YGWA-17S	WG	G	8/30	1540	-	-		6	2		3						X	X	X	X			
	YGWA-18S	WG	G	8/30	1610	-	-		6	2		3						X	X	X	X			
	YGWA-18I	WG	G	8/30	1335	-	-		5	2		3						X	X	X	X			
	YGWA-20S	WG	G			-	-		5	2		3						X	X	X	X			
	YGWA-21I	WG	G			-	-		5	2		3						X	X	X	X			
	YGWA-3DI	WG	G			-	-		5	2		3						X	X	X	X			
	YGWA-14S	WG	G			-	-		5	2		3						X	X	X	X			

3226

pH: 4.68
pH: 5.18
pH: 5.82

sample time: 1010

	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Bute 300.0 (Cl, F, Sulfate)	[signature]	8/31/22	0750	[signature] / Pace	9/1/22	0750
App III Metals: Boron 6020B, Ca 6010B; App VII 6020B: Zn, As, Ni, V	[signature]	8/31/22	1002	Ryan Williams / Pace	9/1/22	1003
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Lydia Williams / Pace	9/1/22	1153	[signature]	9/1/22	1153

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/31/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 1

Section A — Required Client Information:
Company: GA Power
Address: Atlanta, GA
Email To: lgucciardi@southernco.com
Phone: 470.620.6176 Fax
Requested Due Date:

Section B — Required Project Information:
Report To: SCS Contacts
Copy To: Arcadis Contacts
Purchase Order #:
Project Name: Plant Yates Pooled Upgradient
Project Number:

Section C — Invoice Information:
Attention: Southern Co.
Company Name:
Address:
Pace Quote:
Pace Project Manager: Nicole D'Olso
Pace Profile #: 10640

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III/IV Metals	Cl, F, SO4	TDS (2540C)	PAG 831/8330	App I / II (gypsum only)	Residual Chlorine (Y/N)	
	YGWA-4I	WG	G			–	–		5	2		3						X	X	X	X	X		
	GWA-2	WG	G			–	–		5	2		3						X	X	X	X			
	YGWA-4I	WG	G			–	–		5	2		3						X	X	X	X	X		
	YGWA-5I	WG	G	8/24/21	1052	–	–		5	2		3						X	X	X	X			
	YGWA-5D	WG	G	8/24/21	1205	–	–		5	2		3						X	X	X	X			
	YGWA-17S	WG	G			–	–		5	2		3						X	X	X	·			
	YGWA-18S	WG	G			–	–		5	2		3						X	X	X	X			
	YGWA-18I	WG	G			–	–		5	2		3						X	X	X	X			
	YGWA-20S	WG	G			–	–		5	2		3						X	X	X	X			
	YGWA-21I	WG	G	8/24/21	1142	–	–		5	2		3						X	X	X	X			
	YGWA-30I	WG	G			–	–		5	2		3						X	X	X	X			
	YGWA-14S	WG	G			–	–		5	2		3						X	X	X	X			

Arizona Suite 200.8 (Cl, F, Sulfate)	Relinquished	8/31/21	1003	Received	Ryan Williams/Pace	9/1/21	1003		
App III Metals: Boron 6020B, Ca 6010D; App III [B2BE: Zn, Ag, Tl, V	Ryan Williams/Pace	8/31/21	1153			8/31/21	1153		
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)									

PRINT Name of SAMPLER: Mark Chest
SIGNATURE of SAMPLER: [signature] DATE Signed: 8/31/21

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 Of 1

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176
Fax:	
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

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

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

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
	YGWA-39	WG	G			-	-		6	2		3							X	X	X	X			
	YGWA-40	WG	G			-	-		5	2		3							X	X	X	X			pH:
3	YGWA-1I	WG	G			-	-		5	2		3							X	X	X	X			pH:
4	YGWA-1D	WG	G	8/30	1350	-	-		6	2		3							X	X	X	X			pH:
	YGWA-2I	WG	G	8-30	1000	-	-		5	2		3							X	X	X	X			pH: 7.2
6	YGWA-3I	WG	G			-	-		6	2		3							X	X	X	X			pH: 7.04
7	YGWA-3D	WG	G			-	-		6	2		3							X	X	X	X			pH:
						-	-																		pH:
						-	-																		pH:
						-	-																		pH:
						-	-																		pH:
						-	-																		pH:
						-	-																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Suite 300.0 (Cl, F, Sulfate)	Khell Carson / Arcadis	8/31/22	800	[signature] / Arcadis	8/31/22	800
App III Metals: Boron 6020B, Ca 6010D; App IV 6020B: Zn, As, Ni, V	[signature] / Arcadis	8/31/22	1003	Ryan Williams / Pace	8/31/22	1003
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	8/31/22	1153	[signature]	8/31/22	1153

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Khell Carson

SIGNATURE of SAMPLER: [signature]

DATE Signed: 8/31

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

3226 3227

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 2

Section A — Required Client Information:
Company: GA Power
Address: Atlanta, GA
Email To: laucoker@southernco.com
Phone: 470.620.6176 Fax:
Requested Due Date:

Section B — Required Project Information:
Report To: SCS Contacts
Copy To: Arcadis Contacts
Purchase Order #:
Project Name: Plant Yates Pooled Upgradient
Project Number:

Section C — Invoice Information:
Attention: Southern Co.
Company Name:
Address:
Pace Quote:
Pace Project Manager: Nicole D'Oleo
Pace Profile #: 10840

State: Georgia

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

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	Collected Start DATE	Start TIME	End DATE	End TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-39	WG	G			-	-		5	2		3						x	x	x	x			
2	YGWA-40	WG	G			-	-		5	2		3						x	x	x	x			pH:
3	YGWA-1I	WG	G			-	-		5	2		3						x	x	x	x			pH:
4	YGWA-1D	WG	G			-	-		5	2		3						x	x	x	x			pH:
5	YGWA-2I	WG	G			-	-		5	2		3						x	x	x	x			pH:
6	YGWA-3I	WG	G	8/31	1054	-	-		5	2		3						x	x	x	x			pH:
7	YGWA-3D	WG	G	8/31	0930	-	-		5	2		3						x	x	x	x			pH: 7.49
8						-	-																	pH: 7.65
9						-	-																	pH:
10						-	-																	pH:
11						-	-																	pH:
12						-	-																	

Anions Suite 300.0 (Cl, F, Sulfate)
App III Metals: Boron 6020B, Ca 6010D
App I/II 6020B: Zn, Ag, Ni, V
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)
7040A: Mercury (Hg)

Relinquished by / Affiliation	Date	Time	Accepted by / Affiliation	Date	Time
[signature] / Arcadis	9/1/22	0700	[signature] / PAS	9/1/22	0700
[signature] / PAS	9/1/22		Ryar Williams / Pace	9/1/22	0905
Ryar Williams / Pace	9/1/22	1055	[signature]	9/1/22	1055

PRINT Name of SAMPLER: Jessica Ware
SIGNATURE of SAMPLER: [signature]
DATE Signed: 9/1/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	tsucoker@southernco.com
Phone:	470.620.6176 Fax
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

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

Requested Analysis Filtered (Y/N) — Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD (9315/9320)	App I / II (gypsum only)	Residual Chlorine (Y/N)	pH
1	YGWA-3S	WG	G	8/31/22	1350	-	-		5	2		3						X	X	X	X	X		pH: 5.30
2	YGWA-4D	WG	G	8/31/22	1640	-	-		6	2		3						X	X	X	X	X		pH: 4.53
3	YGWA-1I	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
4	YGWA-1D	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
5	YGWA-2I	WG	G			-	-		6	2		3						X	X	X	X	X		pH:
6	YGWA-3I	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
7	YGWA-3D	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
8						-	-																	pH:
9						-	-																	pH:
10						-	-																	pH:
11						-	-																	pH:
12						-	-																	

ADDITIONAL COMMENTS — RELINQUISHED BY / AFFILIATION — DATE — TIME — ACCEPTED BY / AFFILIATION — DATE — TIME — SAMPLE CONDITIONS

Anions Suite 300.0 (Cl, F, Sulfate)	[signature]	Arcadis	9/1/22		Ryan Williams / Pace	9/1/22	0905			
App III Metals: Boron 6020B, Ca 6010C; App III 6020B: Zn, Se, Ni, V	Ryan Williams / Pace		9/1/22	1055	[signature]	9/1/22	1055			
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)										

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chesnut

SIGNATURE of SAMPLER: [signature] DATE Signed: 9/1/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 2

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	lsscoker@southernco.com
Phone:	470.620.6176 Fax:
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

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

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD (9315/9320)	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-4T	WG	G			-	-		6	2		3						X	X	X	X			
2	GWA-2	WG	G			-	-		6	2		3						X	X	X	X	X		pH
3	YGWA-4I	WG	G	8/31	1537	-	-		5	2		3						X	X	X	X			pH
4	YGWA-5I	WG	G			-	-		6	2		3						X	X	X	X			pH 5.50
5	YGWA-5D	WG	G			-	-		6	2		3						X	X	X	X			pH
6	YGWA-17S	WG	G			-	-		6	2		3						X	X	X	-			pH
7	YGWA-18S	WG	G			-	-		6	2		3						X	X	X	X			pH
8	YGWA-18I	WG	G			-	-		5	2		3						X	X	X	X			pH
9	YGWA-20S	WG	G	8/31	1257	-	-		6	2		3						X	X	X	X			pH
10	YGWA-21I	WG	G			-	-		6	2		3						X	X	X	X			pH 5.38
11	YGWA-30I	WG	G			-	-		5	2		3						X	X	X	X			pH
12	YGWA-14S	WG	G			-	-		5	2		3						X	X	X	X			pH

ADDITIONAL COMMENTS — RELINQUISHED BY / AFFILIATION — DATE — TIME — ACCEPTED BY / AFFILIATION — DATE — TIME

Anions Suite 300.0 (Cl, F, Sulfate)
App III Metals: Boron 6020B, Ca 6010D
App I/II 6020B: Zn, Ag, Ni, V
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)
7040A: Mercury (Hg)

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature]	8/1/22	0700	[signature] ATC	8/1/22	020
[signature] /ATC	9/1/22		Ryan Williams /Pace	9/1/22	0935
Ryan Williams /Pace	9/1/22	1045	[signature]	9/1/22	1045

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Jane

SIGNATURE of SAMPLER: [signature] DATE Signed: 9/1/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of [illegible]

Section A
Required Client Information:
Company: GA Power
Address: Atlanta, GA
Email To: laucolter@southernco.com
Phone: 470.620.6176 Fax:
Requested Due Date:

Section B
Required Project Information:
Report To: SCS Contacts
Copy To: Arcadis Contacts
Purchase Order #:
Project Name: Plant Yates Pooled Upgradient
Project Number:

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

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

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-47	WG	G	8/31	0915	-	-		5	2		3						x	x	x	x			pH: 5.32
2	GWA-2	WG	G			-	-		5	2		3						x	x	x	x	x		pH:
3	YGWA-4I	WG	G			-	-		5	2		3						x	x	x	x			pH:
4	YGWA-5I	WG	G			-	-		5	2		3						x	x	x	x			pH:
5	YGWA-6D	WG	G			-	-		5	2		3						x	x	x	-			pH:
6	YGWA-17S	WG	G			-	-		5	2		3						x	x	x	x			pH:
7	YGWA-18S	WG	G			-	-		5	2		3						x	x	x	x			pH:
8	YGWA-18I	WG	G			-	-		5	2		3						x	x	x	x			pH:
9	YGWA-20S	WG	G			-	-		5	2		3						x	x	x	x			pH:
10	YGWA-21I	WG	G			-	-		5	2		3						x	x	x	x			pH:
11	YGWA-30I	WG	G			-	-		5	2		3						x	x	x	x			pH:
12	YGWA-14S	WG	G			-	-		5	2		3						x	x	x	x			pH:

Anions Suite 300.0 (Cl, F, Sulfate)
App III Metals: Boron 6020B, Ca 6010D;
App I/II 6020B: Zn, Ag, Ni, V
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)
7040A: Mercury (Hg)

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature] Arcadis	9/1/22	0800	[signature] AS	9/1/22	0800
[signature] / AS	9/1/22		Ryan Williams / Pace	9/1/22	0905
Ryan Williams / Pace	9/1/22	1056	[signature]	9/1/22	1055

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Jake Swanson
SIGNATURE of SAMPLER: [signature]
DATE Signed: 9/1/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 3

Section A
Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	jaucoker@southernco.com
Phone:	470.620.6176 Fax
Requested Due Date:	

Section B
Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C
Invoice Information:

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

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

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-39	WG	G			-	-		5	2		3						X	X	X	X			
2	YGWA-40	WG	G			-	-		5	2		3						X	X	X	X			pH:
3	YGWA-1I	WG	G	7/31	0916	-	-		5	2		3						X	X	X	X			pH:
4	YGWA-1D	WG	G			-	-		5	2		3						X	X	X	X			pH: 5.64
5	YGWA-2I	WG	G			-	-		5	2		3						X	X	X	X			pH:
6	YGWA-3I	WG	G			-	-		5	2		3						X	X	X	X			pH:
7	YGWA-3D	WG	G			-	-		5	2		3						X	X	X	X			pH:
8						-	-																	pH:
9						-	-																	pH:
10						-	-																	pH:
11						-	-																	pH:
12						-	-																	

Anions Suite 300.0 (Cl, F, Sulfate)
App III Metals: Boron 6020B, Ca 6010D;
App III 6020B: Zn, Ag, Ni, V
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)
7470A: Mercury (Hg)

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Khalil Carson / Arcadis	9/1/22	0800	[signature]	9/1/22	0800
[signature] / Arcadis	9/1/22		Ryan Williams / Pace	9/1/22	0905
Ryan Williams / Pace	9/01/22	1056	[signature]	9/1/22	1055

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Khalil Carson
SIGNATURE of SAMPLER: [signature] DATE Signed: 9/1

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

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Page: 1 Of 2

Section A
Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax:
Requested Due Date:	

Section B
Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C
Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	Nicole D'Oleo
Pace Profile #:	10640

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

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

MATRIX CODE (see valid codes to left); SAMPLE TYPE (G=GRAB C=COMP)

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-47	WG	G			-	-		5	2		3						x	x	x	x			
2	GWA-2	WG	G			-	-		5	2		3						x	x	x	x	x		pH:
3	YGWA-4I	WG	G			-	-		5	2		3						x	x	x	x			pH:
4	YGWA-6I	WG	G			-	-		5	2		3						x	x	x	x			pH:
5	YGWA-6D	WG	G			-	-		5	2		3						x	x	x	x			pH:
6	YGWA-17S	WG	G			-	-		5	2		3						x	x	x	·			pH:
7	YGWA-18S	WG	G			-	-		5	2		3						x	x	x	x			pH:
8	YGWA-18I	WG	G			-	-		5	2		3						x	x	x	x			pH:
9	YGWA-20S	WG	G			-	-		5	2		3						x	x	x	x			pH:
10	YGWA-21I	WG	G			-	-		5	2		3						x	x	x	x			pH:
11	YGWA-30I	WG	G	8/31	1130	-	-		5	2		3						x	x	x	x			pH: 5.87
12	YGWA-14S	WG	G	9/1/22	1415	-	-		5	2		3						x	x	x	x			pH: 5.15

ADDITIONAL COMMENTS

Anions Suite 300.0 (Cl, F, Sulfate)

App III Metals: Boron 6020B, Ca 6010D; App III 6020B; Zn, Ag, Ni, V

App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Khalil Carter / Arcadis	9/1/22	0800	[signature] / Arcadis	9/1/22	800
[signature] / Arcadis			Ryan Williams / Pace	9/1/22	0915
Ryan Williams / Pace	9/1/22	1055	[signature]	9/1/22	1055

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Khalil Carter

SIGNATURE of SAMPLER: [signature] DATE Signed: 9/1

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : | Of |

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency
State / Location
Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320		App I / II (gpysum only)							Residual Chlorine (Y/N)	3226
1	YGWA-47	WG	G			--	--		5	2		3							X	X	X	X								pH:
2	GWA-2	WG	G	8/30	1005	--	--		5	2		3							X	X	X	X		X						pH: 5.39
3	YGWA-4I	WG	G			--	--		5	2		3							X	X	X	X								pH:
4	YGWA-5I	WG	G			--	--		5	2		3							X	X	X	X								pH:
5	YGWA-5D	WG	G			--	--		5	2		3							X	X	X									pH:
6	YGWA-17S	WG	G			--	--		5	2		3							X	X	X	X								pH:
7	YGWA-18S	WG	G			--	--		5	2		3							X	X	X	X								pH:
8	YGWA-18I	WG	G			--	--		5	2		3							X	X	X	X								pH:
9	YGWA-20S	WG	G			--	--		5	2		3							X	X	X	X								pH:
10	YGWA-21I	WG	G			--	--		5	2		3							X	X	X	X								pH:
11	YGWA-30I	WG	G			--	--		5	2		3							X	X	X	X								pH:
12	YGWA-14S	WG	G			--	--		5	2		3							X	X	X	X								pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/31/22	800	Arcadis	8/31/22	0800	
App III Metals: Boron 6020B, Ca 6010D; App IV 6020B: Zn, Ag, Ni, V	AVS	8/31/22	1003	Ryan Williams / Pace	8/31/22	1003	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	8/31/22	1153		8/31/22	1153	

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:	Jake Swanson					
SIGNATURE of SAMPLER:		DATE Signed: 8/31/22				

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	3226
1	YGWA-47	WG	G			--	--		5	2		3							X	X	X	X			pH:
2	GWA-2	WG	G			--	--		5	2		3							X	X	X	X	X		pH:
3	YGWA-4I	WG	G			--	--		5	2		3							X	X	X	X			pH:
4	YGWA-5I	WG	G			--	--		5	2		3							X	X	X	X			pH:
5	YGWA-5D	WG	G			--	--		5	2		3							X	X	X				pH:
6	YGWA-17S	WG	G	8/30	1540	--	--		5	2		3							X	X	X	X			pH: 4.68
7	YGWA-18S	WG	G	8/30	1010	--	--		5	2		3							X	X	X	X			pH: 5.18
8	YGWA-18I	WG	G	8/30	1335	--	--		5	2		3							X	X	X	X			pH: 5.82
9	YGWA-20S	WG	G			--	--		5	2		3							X	X	X	X			pH:
10	YGWA-21I	WG	G			--	--		5	2		3							X	X	X	X			pH:
11	YGWA-30I	WG	G			--	--		5	2		3							X	X	X	X			pH:
12	YGWA-14S	WG	G			--	--		5	2		3							X	X	X	X			pH:

sample time: 1 1010 2 3

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware / Arcadis	8/31/22	0750	Ryan Williams / Pace	8/31/22	0750	
App III Metals: Boron 6020B, Ca 6010D; App IMI 6020B: Zn, Ag, Ni, V	[signature]	8/31/22	1002	Ryan Williams / Pace	8/31/22	1003	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	8/31/22	1153	[signature]	8/31/22	1153	

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Jessica Ware					
SIGNATURE of SAMPLER:	[signature]	DATE Signed: 8/31/22				

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency	
State / Location	Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320		App I / II (gypsum only)						Residual Chlorine (Y/N)	
1	YGWA-47	WG	G			--	--		5	2		3							X	X	X	X								pH:
2	GWA-2	WG	G			--	--		5	2		3							X	X	X	X		X						pH:
3	YGWA-4I	WG	G			--	--		5	2		3							X	X	X	X								pH:
4	YGWA-5I	WG	G	8/30/24	1052	--	--		5	2		3							X	X	X	X								pH: 5.00
5	YGWA-5D	WG	G	8/30/24	1205	--	--		5	2		3							X	X	X									pH: 7.40
6	YGWA-17S	WG	G			--	--		5	2		3							X	X	X	X								pH:
7	YGWA-18S	WG	G			--	--		5	2		3							X	X	X	X								pH:
8	YGWA-18I	WG	G			--	--		5	2		3							X	X	X	X								pH:
9	YGWA-20S	WG	G			--	--		5	2		3							X	X	X	X								pH:
10	YGWA-21I	WG	G	8/30/24	1430	--	--		5	2		3							X	X	X	X								pH: 6.58
11	YGWA-30I	WG	G			--	--		5	2		3							X	X	X	X								pH:
12	YGWA-14S	WG	G			--	--		5	2		3							X	X	X	X								pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/31/21	1003	Ryan Williams / Pace	8/31/22	1003	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	Ryan Williams / Pace	8/31/22	1153		8/31/22	1153	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Mark Chest					
SIGNATURE of SAMPLER:		DATE Signed: 8/31/21				

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency	
State / Location	
Georgia	

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-39	WG	G			--	--		5	2		3								X	X	X	X			pH:
2	YGWA-40	WG	G			--	--		5	2		3								X	X	X	X			pH:
3	YGWA-1I	WG	G			--	--		5	2		3								X	X	X	X			pH:
4	YGWA-1D	WG	G	8/30	1350	--	--		5	2		3								X	X	X	X			pH: 7.2
5	YGWA-2I	WG	G	8-30	1000	--	--		5	2		3								X	X	X	X			pH: 7.04
6	YGWA-3I	WG	G			--	--		5	2		3								X	X	X	X			pH:
7	YGWA-3D	WG	G			--	--		5	2		3								X	X	X	X			pH:
8						--	--																			pH:
9						--	--																			pH:
10						--	--																			pH:
11						--	--																			
12						--	--																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Abigail Carson /Arcadis	8/31/22	800	[signature] AWS	8/31/22	800	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	[signature] AWS	8/31/22	1003	Ryan Williams / Pace	8/31/22	1003	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	8/31/22	1153	[signature]	8/31/22	1153	

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:	Abigail Carson					
SIGNATURE of SAMPLER:	[signature]	DATE Signed: 8/31				

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CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	pH
1	YGWA-39	WG	G			--	--		5	2		3							X	X	X	X			pH:
2	YGWA-40	WG	G			--	--		5	2		3							X	X	X	X			pH:
3	YGWA-1I	WG	G			--	--		5	2		3							X	X	X	X			pH:
4	YGWA-1D	WG	G			--	--		5	2		3							X	X	X	X			pH:
5	YGWA-2I	WG	G			--	--		5	2		3							X	X	X	X			pH:
6	YGWA-3I	WG	G	8/31	1054	--	--		5	2		3							X	X	X	X			pH: 7.49
7	YGWA-3D	WG	G	8/31	0930	--	--		5	2		3							X	X	X	X			pH: 7.65
8						--	--																		pH:
9						--	--																		pH:
10						--	--																		pH:
11						--	--																		
12						--	--																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware /Arcadis	9/1/22	0800	[illegible] /AS	9/1/22	0800	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	[illegible] /AS	9/1/22		Ryan Williams /Pace	9/1/22	0905	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams /Pace	9/1/22	1055				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: Jessica Ware

DATE Signed: 9/1/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-39	WG	G	8/31/22	1350	–	–		5	2		3							X	X	X	X			pH: 5.30
2	YGWA-40	WG	G	8/31/22	1640	–	–		5	2		3							X	X	X	X			pH: 4.53
3	YGWA-1I	WG	G			–	–		5	2		3							X	X	X	X			pH:
4	YGWA-1D	WG	G			–	–		5	2		3							X	X	X	X			pH:
5	YGWA-2I	WG	G			–	–		5	2		3							X	X	X	X			pH:
6	YGWA-3I	WG	G			–	–		5	2		3							X	X	X	X			pH:
7	YGWA-3D	WG	G			–	–		5	2		3							X	X	X	X			pH:
8						–	–																		pH:
9						–	–																		pH:
10						–	–																		pH:
11						–	–																		
12						–	–																		

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	9/1/22		Ryan Williams / Pace	9/1/22	0905	
App III Metals: Boron 6020B, Ca 6010D. App VII 6020B: Zn, Ag, Ni, V	Ryan Williams / Pace	9/1/22	1065				
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chestnut

SIGNATURE of SAMPLER: [signature] DATE Signed: 9/1/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-47	WG	G			-	-		5	2		3							X	X	X	X				pH:
2	GWA-2	WG	G			-	-		5	2		3							X	X	X	X	X			pH:
3	YGWA-4I	WG	G	8/31	1537	-	-		5	2		3							X	X	X	X				pH: 5.50
4	YGWA-5I	WG	G			-	-		5	2		3							X	X	X	X				pH:
5	YGWA-5D	WG	G			-	-		5	2		3							X	X	X	-				pH:
6	YGWA-17S	WG	G			-	-		5	2		3							X	X	X	X				pH:
7	YGWA-18S	WG	G			-	-		5	2		3							X	X	X	X				pH:
8	YGWA-18I	WG	G			-	-		5	2		3							X	X	X	X				pH:
9	YGWA-20S	WG	G	8/31	1257	-	-		5	2		3							X	X	X	X				pH: 5.38
10	YGWA-21I	WG	G			-	-		5	2		3							X	X	X	X				pH:
11	YGWA-30I	WG	G			-	-		5	2		3							X	X	X	X				pH:
12	YGWA-14S	WG	G			-	-		5	2		3							X	X	X	X				pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware /Arcadis	8/1/22	0900	[signature] Ace	8/1/22	0900	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	[signature] /ACS	8/1/22		Ryan Williams/Pace	8/1/22	0905	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams/Pace	8/1/22	1055				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/1/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-47	WG	G	8/31	0915	–	–		5	2		3							X	X	X	X			pH: 5.32
2	GWA-2	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
3	YGWA-4I	WG	G			–	–		5	2		3							X	X	X	X			pH:
4	YGWA-5I	WG	G			–	–		5	2		3							X	X	X	X			pH:
5	YGWA-5D	WG	G			–	–		5	2		3							X	X	X	·			pH:
6	YGWA-17S	WG	G			–	–		5	2		3							X	X	X	X			pH:
7	YGWA-18S	WG	G			–	–		5	2		3							X	X	X	X			pH:
8	YGWA-18I	WG	G			–	–		5	2		3							X	X	X	X			pH:
9	YGWA-20S	WG	G			–	–		5	2		3							X	X	X	X			pH:
10	YGWA-21I	WG	G			–	–		5	2		3							X	X	X	X			pH:
11	YGWA-30I	WG	G			–	–		5	2		3							X	X	X	X			pH:
12	YGWA-14S	WG	G			–	–		5	2		3							X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	9/1/22	0800	AS	9/1/22	0800	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	AS	9/1/22		Ryan Williams / Pace	9/1/22	0905	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	9/1/22	1056				

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:	Jake Swanson					
SIGNATURE of SAMPLER:		DATE Signed: 9/1/22				

2377
3226

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 3

Section A
Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax
Requested Due Date:	

Section B
Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C
Invoice Information:

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

Regulatory Agency

State / Location
Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-47	WG	G			–	–		5	2		3							X	X	X	X			pH:
2	GWA-2	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
3	YGWA-4I	WG	G			–	–		5	2		3							X	X	X	X			pH:
4	YGWA-5I	WG	G			–	–		5	2		3							X	X	X	X			pH:
5	YGWA-5D	WG	G			–	–		5	2		3							X	X	X	·			pH:
6	YGWA-17S	WG	G			–	–		5	2		3							X	X	X	X			pH:
7	YGWA-18S	WG	G			–	–		5	2		3							X	X	X	X			pH:
8	YGWA-18I	WG	G			–	–		5	2		3							X	X	X	X			pH:
9	YGWA-20S	WG	G			–	–		5	2		3							X	X	X	X			pH:
10	YGWA-21I	WG	G			–	–		5	2		3							X	X	X	X			pH:
11	YGWA-30I	WG	G	8/31	1130	–	–		5	2		3							X	X	X	X			pH: 5.87
12	YGWA-14S	WG	G	9/1	1415	–	–		5	2		3							X	X	X	X			pH: 5.15

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carter /Arcadis	9/1/22	0800	[signature] AWS	9/1/22	800	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	[signature] AWS			Ryan Williams / Pace	9/1/22	0905	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	9/1/22	1053				

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	Khalil Carter		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:	[signature]	DATE Signed: 9/1				

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 2 Of 3

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-39	WG	G			–	–		5	2		3						X	X	X	X				pH:
2	YGWA-40	WG	G			–	–		5	2		3						X	X	X	X				pH:
3	YGWA-1I	WG	G	9/31	0916	–	–		5	2		3						X	X	X	X				pH: 5.64
4	YGWA-1D	WG	G			–	–		5	2		3						X	X	X	X				pH:
5	YGWA-2I	WG	G			–	–		5	2		3						X	X	X	X				pH:
6	YGWA-3I	WG	G			–	–		5	2		3						X	X	X	X				pH:
7	YGWA-3D	WG	G			–	–		5	2		3						X	X	X	X				pH:
8						–	–																		pH:
9						–	–																		pH:
10						–	–																		pH:
11						–	–																		
12						–	–																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carson /Arcadis	9/1/22	0800	[signature]	9/1/22	0800	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	[signature] /Arcadis	9/1/22		Ryan Williams / Pace	9/1/22	0905	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	9/1/22	1056				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Khalil Carson

SIGNATURE of SAMPLER: [signature] DATE Signed: 9/1

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

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

November 03, 2022

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

RE: Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between August 31, 2022 and September 01, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

Revision 1: Issued on 11/3/22 to include Radium QC Sheets.

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

Sincerely,

Nicole D'Oleo

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Noelia Gangi, Georgia Power
Geoffrey Gay, ARCADIS - Atlanta
Ben Hodges, Georgia Power
Kristen Jurinko
Laura Midkiff, Georgia Power
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Michael Smilley, Georgia Power
Becky Steever, Arcadis
Tina Sullivan, ERM
Albert Zumbuhl, Arcadis

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

CERTIFICATIONS

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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

SAMPLE SUMMARY

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92623277001	**YGWA-17S**	Water	08/30/22 15:40	08/31/22 11:03
92623277002	**YGWA-18S**	Water	08/30/22 10:10	08/31/22 11:03
92623277003	**YGWA-18I**	Water	08/30/22 13:35	08/31/22 11:03
92623277004	**GWA-2**	Water	08/30/22 10:05	08/31/22 11:03
92623277005	**YGWA-5I**	Water	08/30/22 10:52	08/31/22 11:03
92623277006	**YGWA-5D**	Water	08/30/22 12:05	08/31/22 11:03
92623277007	**YGWA-21I**	Water	08/30/22 14:30	08/31/22 11:03
92623277008	**YGWA-1D**	Water	08/30/22 13:50	08/31/22 11:03
92623277009	**YGWA-2I**	Water	08/30/22 10:00	08/31/22 11:03
92623277010	**YGWA-30I**	Water	08/31/22 11:30	09/01/22 09:05
92623277011	**YGWA-14S**	Water	08/31/22 14:15	09/01/22 09:05
92623277012	**YGWA-1I**	Water	08/31/22 09:10	09/01/22 09:05
92623277013	**YGWA-47**	Water	08/31/22 09:15	09/01/22 09:05
92623277014	**YGWA-4I**	Water	08/31/22 15:37	09/01/22 09:05
92623277015	**YGWA-20S**	Water	08/31/22 12:57	09/01/22 09:05
92623277016	**YGWA-39**	Water	08/31/22 13:50	09/01/22 09:05
92623277017	**YGWA-40**	Water	08/31/22 16:40	09/01/22 09:05
92623277018	**YGWA-3I**	Water	08/31/22 10:54	09/01/22 09:05
92623277019	**YGWA-3D**	Water	08/31/22 09:30	09/01/22 09:05

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

SAMPLE ANALYTE COUNT

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92623277001	YGWA-17S	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277002	YGWA-18S	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277003	YGWA-18I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277004	GWA-2	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277005	YGWA-5I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277006	YGWA-5D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277007	YGWA-21I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277008	YGWA-1D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277009	YGWA-2I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277010	YGWA-30I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277011	YGWA-14S	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277012	YGWA-1I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277013	YGWA-47	EPA 9315	RMS	1	PASI-PA

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

SAMPLE ANALYTE COUNT

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277014	**YGWA-4I**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277015	**YGWA-20S**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277016	**YGWA-39**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277017	**YGWA-40**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277018	**YGWA-3I**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277019	**YGWA-3D**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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

SUMMARY OF DETECTION

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623277001	**YGWA-17S**					
EPA 9315	Radium-226	0.114 ± 0.0935 (0.148) C:97% T:NA	pCi/L		09/21/22 16:06	
EPA 9320	Radium-228	0.964 ± 0.357 (0.496) C:79% T:96%	pCi/L		09/21/22 11:51	
Total Radium Calculation	Total Radium	1.08 ± 0.451 (0.644)	pCi/L		09/22/22 16:49	
92623277002	**YGWA-18S**					
EPA 9315	Radium-226	0.0688 ± 0.0906 (0.189) C:97% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	0.542 ± 0.287 (0.493) C:82% T:95%	pCi/L		09/21/22 11:51	
Total Radium Calculation	Total Radium	0.611 ± 0.378 (0.682)	pCi/L		09/22/22 16:49	
92623277003	**YGWA-18I**					
EPA 9315	Radium-226	0.0453 ± 0.0847 (0.194) C:91% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	0.961 ± 0.372 (0.555) C:81% T:93%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	1.01 ± 0.457 (0.749)	pCi/L		09/22/22 16:49	
92623277004	**GWA-2**					
EPA 9315	Radium-226	0.181 ± 0.124 (0.194) C:91% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	1.34 ± 0.454 (0.623) C:83% T:89%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	1.52 ± 0.578 (0.817)	pCi/L		09/22/22 16:49	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623277005	**YGWA-5I**					
EPA 9315	Radium-226	0.0755 ± 0.109 (0.238) C:95% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	0.644 ± 0.326 (0.564) C:79% T:97%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	0.720 ± 0.435 (0.802)	pCi/L		09/22/22 16:49	
92623277006	**YGWA-5D**					
EPA 9315	Radium-226	3.13 ± 0.626 (0.210) C:93% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	2.21 ± 0.587 (0.575) C:82% T:89%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	5.34 ± 1.21 (0.785)	pCi/L		09/22/22 16:49	
92623277007	**YGWA-21I**					
EPA 9315	Radium-226	0.307 ± 0.154 (0.202) C:92% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	0.959 ± 0.367 (0.535) C:81% T:92%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	1.27 ± 0.521 (0.737)	pCi/L		09/22/22 16:49	
92623277008	**YGWA-1D**					
EPA 9315	Radium-226	0.248 ± 0.149 (0.239) C:94% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	0.579 ± 0.293 (0.483) C:82% T:88%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	0.827 ± 0.442 (0.722)	pCi/L		09/22/22 16:49	

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

SUMMARY OF DETECTION

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623277009	**YGWA-2I**					
EPA 9315	Radium-226	0.0872 ± 0.111 (0.234) C:93% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	0.612 ± 0.309 (0.528) C:83% T:94%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	0.699 ± 0.420 (0.762)	pCi/L		09/22/22 16:49	
92623277010	**YGWA-30I**					
EPA 9315	Radium-226	-0.0454 ± 0.0594 (0.213) C:94% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	0.506 ± 0.326 (0.611) C:81% T:92%	pCi/L		09/21/22 15:02	
Total Radium Calculation	Total Radium	0.506 ± 0.385 (0.824)	pCi/L		09/22/22 16:49	
92623277011	**YGWA-14S**					
EPA 9315	Radium-226	0.0608 ± 0.106 (0.240) C:99% T:NA	pCi/L		09/21/22 18:12	
EPA 9320	Radium-228	0.360 ± 0.304 (0.605) C:81% T:90%	pCi/L		09/21/22 15:03	
Total Radium Calculation	Total Radium	0.421 ± 0.410 (0.845)	pCi/L		09/22/22 16:49	
92623277012	**YGWA-1I**					
EPA 9315	Radium-226	0.0430 ± 0.0679 (0.146) C:98% T:NA	pCi/L		09/21/22 18:12	
EPA 9320	Radium-228	0.447 ± 0.314 (0.593) C:78% T:94%	pCi/L		09/21/22 15:03	
Total Radium Calculation	Total Radium	0.490 ± 0.382 (0.739)	pCi/L		09/22/22 16:49	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623277013	**YGWA-47**					
EPA 9315	Radium-226	0.367 ± 0.173 (0.233) C:98% T:NA	pCi/L		09/22/22 08:08	
EPA 9320	Radium-228	0.347 ± 0.308 (0.623) C:81% T:95%	pCi/L		09/21/22 15:03	
Total Radium Calculation	Total Radium	0.714 ± 0.481 (0.856)	pCi/L		09/22/22 16:49	
92623277014	**YGWA-4I**					
EPA 9315	Radium-226	0.625 ± 0.214 (0.185) C:97% T:NA	pCi/L		09/22/22 08:43	
EPA 9320	Radium-228	0.337 ± 0.338 (0.698) C:82% T:89%	pCi/L		09/21/22 15:03	
Total Radium Calculation	Total Radium	0.962 ± 0.552 (0.883)	pCi/L		09/22/22 16:49	
92623277015	**YGWA-20S**					
EPA 9315	Radium-226	0.126 ± 0.104 (0.183) C:96% T:NA	pCi/L		09/22/22 10:18	
EPA 9320	Radium-228	0.0579 ± 0.297 (0.681) C:81% T:91%	pCi/L		09/21/22 15:03	
Total Radium Calculation	Total Radium	0.184 ± 0.401 (0.864)	pCi/L		09/22/22 16:49	
92623277016	**YGWA-39**					
EPA 9315	Radium-226	0.642 ± 0.214 (0.200) C:97% T:NA	pCi/L		09/22/22 10:18	
EPA 9320	Radium-228	0.295 ± 0.310 (0.641) C:80% T:91%	pCi/L		09/21/22 15:03	
Total Radium Calculation	Total Radium	0.937 ± 0.524 (0.841)	pCi/L		09/22/22 16:49	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92623277017	**YGWA-40**					
EPA 9315	Radium-226	0.202 ± 0.139 (0.236) C:98% T:NA	pCi/L		09/22/22 10:18	
EPA 9320	Radium-228	0.311 ± 0.325 (0.675) C:77% T:95%	pCi/L		09/21/22 15:03	
Total Radium Calculation	Total Radium	0.513 ± 0.464 (0.911)	pCi/L		09/22/22 16:49	
92623277018	**YGWA-3I**					
EPA 9315	Radium-226	0.647 ± 0.215 (0.149) C:92% T:NA	pCi/L		09/22/22 10:19	
EPA 9320	Radium-228	0.687 ± 0.386 (0.703) C:80% T:89%	pCi/L		09/21/22 15:04	
Total Radium Calculation	Total Radium	1.33 ± 0.601 (0.852)	pCi/L		09/22/22 16:49	
92623277019	**YGWA-3D**					
EPA 9315	Radium-226	1.19 ± 0.306 (0.187) C:92% T:NA	pCi/L		09/22/22 12:51	
EPA 9320	Radium-228	0.927 ± 0.394 (0.629) C:81% T:92%	pCi/L		09/21/22 15:04	
Total Radium Calculation	Total Radium	2.12 ± 0.700 (0.816)	pCi/L		09/22/22 16:49	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Sample: YGWA-17S **Lab ID: 92623277001** Collected: 08/30/22 15:40 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.114 ± 0.0935 (0.148) C:97% T:NA**	pCi/L	09/21/22 16:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.964 ± 0.357 (0.496) C:79% T:96%**	pCi/L	09/21/22 11:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.08 ± 0.451 (0.644)**	pCi/L	09/22/22 16:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Sample: YGWA-18S **Lab ID: 92623277002** Collected: 08/30/22 10:10 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0688 ± 0.0906 (0.189) C:97% T:NA**	pCi/L	09/21/22 19:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.542 ± 0.287 (0.493) C:82% T:95%**	pCi/L	09/21/22 11:51	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.611 ± 0.378 (0.682)**	pCi/L	09/22/22 16:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Sample: YGWA-18I **Lab ID: 92623277003** Collected: 08/30/22 13:35 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0453 ± 0.0847 (0.194) C:91% T:NA**	pCi/L	09/21/22 19:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.961 ± 0.372 (0.555) C:81% T:93%**	pCi/L	09/21/22 11:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.01 ± 0.457 (0.749)**	pCi/L	09/22/22 16:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Sample: GWA-2 **Lab ID: 92623277004** Collected: 08/30/22 10:05 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.181 ± 0.124 (0.194) C:91% T:NA**	pCi/L	09/21/22 19:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.34 ± 0.454 (0.623) C:83% T:89%**	pCi/L	09/21/22 11:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.52 ± 0.578 (0.817)**	pCi/L	09/22/22 16:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Sample: YGWA-5I **Lab ID: 92623277005** Collected: 08/30/22 10:52 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0755 ± 0.109 (0.238) C:95% T:NA**	pCi/L	09/21/22 19:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.644 ± 0.326 (0.564) C:79% T:97%**	pCi/L	09/21/22 11:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.720 ± 0.435 (0.802)**	pCi/L	09/22/22 16:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Sample: YGWA-5D **Lab ID: 92623277006** Collected: 08/30/22 12:05 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**3.13 ± 0.626 (0.210) C:93% T:NA**	pCi/L	09/21/22 19:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**2.21 ± 0.587 (0.575) C:82% T:89%**	pCi/L	09/21/22 11:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**5.34 ± 1.21 (0.785)**	pCi/L	09/22/22 16:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Sample: YGWA-21I **Lab ID: 92623277007** Collected: 08/30/22 14:30 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.307 ± 0.154 (0.202) C:92% T:NA**	pCi/L	09/21/22 19:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.959 ± 0.367 (0.535) C:81% T:92%**	pCi/L	09/21/22 11:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.27 ± 0.521 (0.737)**	pCi/L	09/22/22 16:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Sample: YGWA-1D **Lab ID: 92623277008** Collected: 08/30/22 13:50 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.248 ± 0.149 (0.239) C:94% T:NA**	pCi/L	09/21/22 19:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.579 ± 0.293 (0.483) C:82% T:88%**	pCi/L	09/21/22 11:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.827 ± 0.442 (0.722)**	pCi/L	09/22/22 16:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Sample: YGWA-2I **Lab ID: 92623277009** Collected: 08/30/22 10:00 Received: 08/31/22 11:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0872 ± 0.111 (0.234) C:93% T:NA**	pCi/L	09/21/22 19:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.612 ± 0.309 (0.528) C:83% T:94%**	pCi/L	09/21/22 11:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.699 ± 0.420 (0.762)**	pCi/L	09/22/22 16:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Sample: YGWA-30I **Lab ID: 92623277010** Collected: 08/31/22 11:30 Received: 09/01/22 09:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.0454 ± 0.0594 (0.213) C:94% T:NA**	pCi/L	09/21/22 19:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.506 ± 0.326 (0.611) C:81% T:92%**	pCi/L	09/21/22 15:02	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.506 ± 0.385 (0.824)**	pCi/L	09/22/22 16:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Sample: YGWA-14S **Lab ID: 92623277011** Collected: 08/31/22 14:15 Received: 09/01/22 09:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0608 ± 0.106 (0.240) C:99% T:NA**	pCi/L	09/21/22 18:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.360 ± 0.304 (0.605) C:81% T:90%**	pCi/L	09/21/22 15:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.421 ± 0.410 (0.845)**	pCi/L	09/22/22 16:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Sample: YGWA-1I **Lab ID: 92623277012** Collected: 08/31/22 09:10 Received: 09/01/22 09:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0430 ± 0.0679 (0.146) C:98% T:NA**	pCi/L	09/21/22 18:12	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.447 ± 0.314 (0.593) C:78% T:94%**	pCi/L	09/21/22 15:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.490 ± 0.382 (0.739)**	pCi/L	09/22/22 16:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Sample: YGWA-47 **Lab ID: 92623277013** Collected: 08/31/22 09:15 Received: 09/01/22 09:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.367 ± 0.173 (0.233) C:98% T:NA**	pCi/L	09/22/22 08:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.347 ± 0.308 (0.623) C:81% T:95%**	pCi/L	09/21/22 15:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.714 ± 0.481 (0.856)**	pCi/L	09/22/22 16:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Sample: YGWA-4I **Lab ID: 92623277014** Collected: 08/31/22 15:37 Received: 09/01/22 09:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
		Pace Analytical Services - Greensburg				
Radium-226	EPA 9315	**0.625 ± 0.214 (0.185) C:97% T:NA**	pCi/L	09/22/22 08:43	13982-63-3	
		Pace Analytical Services - Greensburg				
Radium-228	EPA 9320	**0.337 ± 0.338 (0.698) C:82% T:89%**	pCi/L	09/21/22 15:03	15262-20-1	
		Pace Analytical Services - Greensburg				
Total Radium	Total Radium Calculation	**0.962 ± 0.552 (0.883)**	pCi/L	09/22/22 16:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Sample: YGWA-20S **Lab ID: 92623277015** Collected: 08/31/22 12:57 Received: 09/01/22 09:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.126 ± 0.104 (0.183) C:96% T:NA**	pCi/L	09/22/22 10:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0579 ± 0.297 (0.681) C:81% T:91%**	pCi/L	09/21/22 15:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.184 ± 0.401 (0.864)**	pCi/L	09/22/22 16:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Sample: YGWA-39 **Lab ID: 92623277016** Collected: 08/31/22 13:50 Received: 09/01/22 09:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.642 ± 0.214 (0.200) C:97% T:NA**	pCi/L	09/22/22 10:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.295 ± 0.310 (0.641) C:80% T:91%**	pCi/L	09/21/22 15:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.937 ± 0.524 (0.841)**	pCi/L	09/22/22 16:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Sample: YGWA-40 **Lab ID: 92623277017** Collected: 08/31/22 16:40 Received: 09/01/22 09:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.202 ± 0.139 (0.236) C:98% T:NA**	pCi/L	09/22/22 10:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.311 ± 0.325 (0.675) C:77% T:95%**	pCi/L	09/21/22 15:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.513 ± 0.464 (0.911)**	pCi/L	09/22/22 16:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Sample: YGWA-3I **Lab ID: 92623277018** Collected: 08/31/22 10:54 Received: 09/01/22 09:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.647 ± 0.215 (0.149) C:92% T:NA**	pCi/L	09/22/22 10:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.687 ± 0.386 (0.703) C:80% T:89%**	pCi/L	09/21/22 15:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.33 ± 0.601 (0.852)**	pCi/L	09/22/22 16:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Sample: YGWA-3D **Lab ID: 92623277019** Collected: 08/31/22 09:30 Received: 09/01/22 09:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**1.19 ± 0.306 (0.187) C:92% T:NA**	pCi/L	09/22/22 12:51	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.927 ± 0.394 (0.629) C:81% T:92%**	pCi/L	09/21/22 15:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.12 ± 0.700 (0.816)**	pCi/L	09/22/22 16:49	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

QC Batch: 530872
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92623277001, 92623277002, 92623277003, 92623277004, 92623277005, 92623277006, 92623277007, 92623277008, 92623277009, 92623277010, 92623277011, 92623277012, 92623277013, 92623277014, 92623277015, 92623277016, 92623277017, 92623277018, 92623277019

METHOD BLANK: 2574649
Matrix: Water
Associated Lab Samples: 92623277001, 92623277002, 92623277003, 92623277004, 92623277005, 92623277006, 92623277007, 92623277008, 92623277009, 92623277010, 92623277011, 92623277012, 92623277013, 92623277014, 92623277015, 92623277016, 92623277017, 92623277018, 92623277019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0321 ± 0.0991 (0.243) C:97% T:NA	pCi/L	09/21/22 16:07	

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

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

QC Batch: 530871
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92623277001, 92623277002, 92623277003, 92623277004, 92623277005, 92623277006, 92623277007, 92623277008, 92623277009, 92623277010, 92623277011, 92623277012, 92623277013, 92623277014, 92623277015, 92623277016, 92623277017, 92623277018, 92623277019

METHOD BLANK: 2574648
Matrix: Water
Associated Lab Samples: 92623277001, 92623277002, 92623277003, 92623277004, 92623277005, 92623277006, 92623277007, 92623277008, 92623277009, 92623277010, 92623277011, 92623277012, 92623277013, 92623277014, 92623277015, 92623277016, 92623277017, 92623277018, 92623277019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.757 ± 0.340 (0.552) C:80% T:96%	pCi/L	09/21/22 11:51	

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

REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623277001	YGWA-17S	EPA 9315	530872		
92623277002	YGWA-18S	EPA 9315	530872		
92623277003	YGWA-18I	EPA 9315	530872		
92623277004	GWA-2	EPA 9315	530872		
92623277005	YGWA-5I	EPA 9315	530872		
92623277006	YGWA-5D	EPA 9315	530872		
92623277007	YGWA-21I	EPA 9315	530872		
92623277008	YGWA-1D	EPA 9315	530872		
92623277009	YGWA-2I	EPA 9315	530872		
92623277010	YGWA-30I	EPA 9315	530872		
92623277011	YGWA-14S	EPA 9315	530872		
92623277012	YGWA-1I	EPA 9315	530872		
92623277013	YGWA-47	EPA 9315	530872		
92623277014	YGWA-4I	EPA 9315	530872		
92623277015	YGWA-20S	EPA 9315	530872		
92623277016	YGWA-39	EPA 9315	530872		
92623277017	YGWA-40	EPA 9315	530872		
92623277018	YGWA-3I	EPA 9315	530872		
92623277019	YGWA-3D	EPA 9315	530872		
92623277001	YGWA-17S	EPA 9320	530871		
92623277002	YGWA-18S	EPA 9320	530871		
92623277003	YGWA-18I	EPA 9320	530871		
92623277004	GWA-2	EPA 9320	530871		
92623277005	YGWA-5I	EPA 9320	530871		
92623277006	YGWA-5D	EPA 9320	530871		
92623277007	YGWA-21I	EPA 9320	530871		
92623277008	YGWA-1D	EPA 9320	530871		
92623277009	YGWA-2I	EPA 9320	530871		
92623277010	YGWA-30I	EPA 9320	530871		
92623277011	YGWA-14S	EPA 9320	530871		
92623277012	YGWA-1I	EPA 9320	530871		
92623277013	YGWA-47	EPA 9320	530871		
92623277014	YGWA-4I	EPA 9320	530871		
92623277015	YGWA-20S	EPA 9320	530871		
92623277016	YGWA-39	EPA 9320	530871		
92623277017	YGWA-40	EPA 9320	530871		
92623277018	YGWA-3I	EPA 9320	530871		
92623277019	YGWA-3D	EPA 9320	530871		
92623277001	YGWA-17S	Total Radium Calculation	534811		
92623277002	YGWA-18S	Total Radium Calculation	534811		
92623277003	YGWA-18I	Total Radium Calculation	534811		
92623277004	GWA-2	Total Radium Calculation	534811		
92623277005	YGWA-5I	Total Radium Calculation	534811		
92623277006	YGWA-5D	Total Radium Calculation	534811		
92623277007	YGWA-21I	Total Radium Calculation	534811		
92623277008	YGWA-1D	Total Radium Calculation	534811		
92623277009	YGWA-2I	Total Radium Calculation	534811		
92623277010	YGWA-30I	Total Radium Calculation	534811		

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Yates Pooled Upgradient Rads-Revised Report
Pace Project No.: 92623277

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623277011	**YGWA-14S**	Total Radium Calculation	534811		
92623277012	**YGWA-1I**	Total Radium Calculation	534811		
92623277013	**YGWA-47**	Total Radium Calculation	534811		
92623277014	**YGWA-4I**	Total Radium Calculation	534811		
92623277015	**YGWA-20S**	Total Radium Calculation	534811		
92623277016	**YGWA-39**	Total Radium Calculation	534811		
92623277017	**YGWA-40**	Total Radium Calculation	534811		
92623277018	**YGWA-3I**	Total Radium Calculation	534811		
92623277019	**YGWA-3D**	Total Radium Calculation	534811		

Pace

DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Power

Project #:

WO# : 92623277

92623277

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

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

Date/Initials Person Examining Contents: 8/31/22 JM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☑ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.9 **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): 1.9

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

pH Strip Lot# 10D4611

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Qualtrax ID: 69614

WO# : 92623277

PM: NMG Due Date: 09/22/22

CLIENT: GA-GA Power

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

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

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

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HC (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																		2				
2		1	1			1																		2				
3		1	1			1																		2				
4		1	1			1																		2				
5		1	1			1																		2				
6		1	1			1																		2				
7		1	1			1																		2				
8		1	1			1																		2				
9		1	1			1																		2				
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

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

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

WO# : 92623277

PM: NMG Due Date: 09/22/22

CLIENT: GA-GA Power

~~*Check mark top half of box if pH and/or dechlorination is verified and~~ Project #

within the acceptance range for preservation samples.

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

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

***Check all unpreserved Nitrates for chlorine

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		1	1			1																		2				
2		1	1			1																		2				
3		1	1			1																		2				
4		1	1			1																		2				
5		1	1			1																		2				
6		1	1			1																		2				
7		1	1			1																		2				
8		1	1			1																		2				
9		1	1			1																		2				
10		1	1			1																		2				
11																												
12																												

pH Adjustment Log for Preserved Samples

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 Of 1

Section A Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	isupcker@southernco.com
Phone:	470.620.6176 Fax:
Requested Due Date:	

Section B Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C Invoice Information:

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

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

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

3277

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
	YGWA-47	WG	G			-	-		5	2		3						x	x	x	x			pH:
	GWA-2	WG	G	8/30	1005	-	-		5	2		3						x	x	x	x	x		pH: 5.39
	YGWA-4I	WG	G			-	-		5	2		3						x	x	x	x			pH:
	YGWA-5I	WG	G			-	-		5	2		3						x	x	x	x			pH:
	YGWA-5D	WG	G			-	-		5	2		3						x	x	x				pH:
	YGWA-17S	WG	G			-	-		5	2		3						x	x	x	x			pH:
	YGWA-18S	WG	G			-	-		5	2		3						x	x	x	x			pH:
	YGWA-18I	WG	G			-	-		5	2		3						x	x	x	x			pH:
	YGWA-20S	WG	G			-	-		8	2		3						x	x	x	x			pH:
	YGWA-21I	WG	G			-	-		5	2		3						x	x	x	x			pH:
	YGWA-30I	WG	G			-	-		5	2		3						x	x	x	x			pH:
12	YGWA-14S	WG	G			-	-		5	2		3						x	x	x	x			pH:

4

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Suite 300.0 (Cl, F, Sulfate) App III Metals: Boron 6020B, Ca 6010D. App IV 6020B: Zn, Ag, Ni, V	[signature] Arcadis	8/31/22	800	[signature] Arcadis	8/31/22	0800
	[signature] AVS	8/31/22	1003	Ryan Williams / Pace	8/31/22	1003
App IV. Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	8/31/22	1153	[signature]	8/31/22	1153

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:	Jaze Swanson
SIGNATURE of SAMPLER:	[signature] DATE Signed: 8/31/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	leucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 903.0/9320	App I / II (ppy/sum only)	Residual Chlorine (Y/N)	Pace Lab #
	YGWA-4I	WG	G			-	-		5	2		3						X	X	X	X	X		
	YGWA-2	WG	G			-	-		5	2		3						X	X	X	X	X		
	YGWA-4I	WG	G			-	-		5	2		3						X	X	X	X	X		
	YGWA-6I	WG	G			-	-		5	2		3						X	X	X	X	X		
5	YGWA-5D	WG	G			-	-		5	2		3						X	X	X	X			
6	YGWA-17S	WG	G	8/30	1540	-	-		6	2		3						X	X	X	X	X		4.68
	YGWA-18S	WG	G	8/30	1635	-	-		5	2		3						X	X	X	X	X		5.18
	YGWA-18I	WG	G	8/30	1335	-	-		5	2		3						X	X	X	X	X		5.82
	YGWA-20S	WG	G			-	-		5	2		3						X	X	X	X	X		
	YGWA-21I	WG	G			-	-		5	2		3						X	X	X	X	X		
11	YGWA-30I	WG	G			-	-		5	2		3						X	X	X	X	X		
12	YGWA-14S	WG	G			-	-		5	2		3						X	X	X	X	X		

sample time: 1 1010 2 3

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware	8/31/22	0750	Ryan Williams / Pace	9/1/22	0750
App III Metals: Boron 6020B, Ca 6010D; App VI 6020B: Zn, Ag, Al, V	[illegible]	8/31/22	1002	Ryan Williams / Pace	9/1/22	1003
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	8/31/22	1153	[illegible]	9/1/22	1153

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Jessica Ware
SIGNATURE of SAMPLER:	Jessica Ware
DATE Signed:	8/31/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

Section A — Required Client Information:

Company: GA Power
Address: Atlanta, GA
Email To: laucoker@southernco.com
Phone: 470.620.6176 Fax
Requested Due Date:

Section B — Required Project Information:

Report To: SCS Contacts
Copy To: Arcadis Contacts
Purchase Order #:
Project Name: Plant Yates Pooled Upgradient
Project Number

Section C — Invoice Information:

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

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

Sample Type (G=GRAB, C=COMP): G

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique)	Matrix Code	Sample Type	Collected START Date	Collected START Time	Collected END Date	Collected END Time	Sample Temp at Collection	# of Containers	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 903.1/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	Georgia
1	YGWA-47	WG	G			-	-		5	2		3						X	X	X	X			
2	GWA-2	WG	G			-	-		5	2		3						X	X	X	X	X		pH:
3	YGWA-4I	WG	G			-	-		5	2		3						X	X	X	X			pH:
4	YGWA-6I	WG	G	8/30/21	1052	-	-		5	2		3						X	X	X	X			pH:
5	YGWA-6D	WG	G	8/30/21	1205	-	-		5	2		3						X	X	X	-			pH: 5.00
6	YGWA-17S	WG	G			-	-		5	2		3						X	X	X	X			pH: 7.40
7	YGWA-18S	WG	G			-	-		5	2		3						X	X	X	X			pH:
8	YGWA-18I	WG	G			-	-		5	2		3						X	X	X	X			pH:
9	YGWA-20S	WG	G			-	-		5	2		3						X	X	X	X			pH:
10	YGWA-21I	WG	G	8/31/21	1432	-	-		5	2		3						X	X	X	X			pH:
11	YGWA-30I	WG	G			-	-		5	2		3						X	X	X	X			pH: 6.52
12	YGWA-14S	WG	G			-	-		5	2		3						X	X	X	X			pH:

Anions Suite 300.0 (Cl, F, Sulfate)	Mark Chest	8/31/21	1003	Ryan Williams / Pace	8/31/21	1003	
App III Metals: Boron 6020B, Ca 6010D; App III 6020B: Zn, Ag, Ni, V	Ryan Williams / Pace	8/31/21	1153		8/31/21	1153	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

PRINT Name of SAMPLER: Mark Chest

SIGNATURE of SAMPLER: Mark Chest

DATE Signed: 8/31/21

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 Of 1

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	lsucoker@southernco.com
Phone:	470.620.6176 Fax:
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

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

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / III (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-3S	WG	G			-	-		6	2		3							X	X	X	X			pH:
2	YGWA-4D	WG	G			-	-		5	2		3							X	X	X	X			pH:
3	YGWA-1I	WG	G			-	-		5	2		3							X	X	X	X			pH:
4	YGWA-1D	WG	G	8/30	1550	-	-		6	2		3							X	X	X	X			pH: 7.2
5	YGWA-2I	WG	G	8-30	1600	-	-		5	2		3							X	X	X	X			pH: 7.04
6	YGWA-3I	WG	G			-	-		6	2		3							X	X	X	X			pH:
7	YGWA-3D	WG	G			-	-		6	2		3							X	X	X	X			pH:
8						-	-																		pH:
9						-	-																		pH:
10						-	-																		pH:
11						-	-																		pH:
12						-	-																		

	Relinquished By	Date	Time	Received By	Date	Time
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carson	8/31/22	800	Ryan Williams / Pace	8/31/22	800
App III Metals: Boron 6020B, Ca 6010C; App IV 6020B: Zn, Ag, Ni, V	Ryan Williams / Pace	8/31/22	1003	Ryan Williams / Pace	8/31/22	1003
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	8/31/22	1153		8/31/22	1153

PRINT Name of SAMPLER: Khalil Carson

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/31/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 4 of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoken@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III / IV Metals	Cl, F, SO4	TDS (2540C)	TRO (3150/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-3S	WG	G			-	-		5	2		3						X	X	X	X	X			pH:
2	YGWA-4D	WG	G			-	-		5	2		3						X	X	X	X	X			pH:
3	YGWA-1I	WG	G			-	-		5	2		3						X	X	X	X	X			pH:
4	YGWA-1D	WG	G			-	-		5	2		3						X	X	X	X	X			pH:
5	YGWA-2I	WG	G			-	-		5	2		3						X	X	X	X	X			pH:
6	YGWA-3I	WG	G	8/31	1054	-	-		5	2		3						X	X	X	X	X			pH: 7.49
7	YGWA-3D	WG	G	8/31	0930	-	-		5	2		3						X	X	X	X	X			pH: 7.65
8						-	-																		pH:
9						-	-																		pH:
10						-	-																		pH:
11						-	-																		
12						-	-																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware Arcadis	9/1/22	0900	Michael Hays	9/1/22	0900	
App III Metals: Boron 6020B, Ca 6010C	Michael Hays	9/1/22		Kyan Williams Pace	9/1/22	0905	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Kyan Williams Pace	9/1/22	1055		9/1/22	1055	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: Jessica Ware

DATE Signed: 9/1/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 1

Section A – Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax
Requested Due Date:	

Section B – Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C – Invoice Information:

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

Regulatory Agency

State / Location: Georgia

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

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-39	WG	G	8/31/22	1350	-	-		5	2		3						x	x	x	x			
2	YGWA-40	WG	G	8/31/22	1640	-	-		6	2		3						x	x	x	x			pH: 5.30
3	YGWA-1I	WG	G			-	-		5	2		3						x	x	x	x			pH: 4.53
4	YGWA-1D	WG	G			-	-		5	2		3						x	x	x	x			pH:
5	YGWA-2I	WG	G			-	-		6	2		3						x	x	x	x			pH:
6	YGWA-3I	WG	G			-	-		5	2		3						x	x	x	x			pH:
7	YGWA-3D	WG	G			-	-		5	2		3						x	x	x	x			pH:
8						-	-																	pH:
9						-	-																	pH:
10						-	-																	pH:
11						-	-																	pH:
12						-	-																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	[signature] / Arcadis	9/1/22		Ryan Williams / Pace	9/1/22	0905	
App III Metals: Boron 6020B, Ca 6010D; App IV 6020B: Zn, Ag, Ni, V	Ryan Williams / Pace	9/1/22	1053	[signature]	9/1/22	1053	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chest

SIGNATURE of SAMPLER: [signature] DATE Signed: 9/1/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax
Requested Due Date:	

Section B
Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C
Invoice Information:

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

Page: 1 of 2

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

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-47	WG	G			-	-		6	2		3						x	x	x	x			pH:
2	GWA-2	WG	G			-	-		5	2		3						x	x	x	x			pH:
3	YGWA-4I	WG	G	8/31	1537	-	-		5	2		3						x	x	x	x	x		pH:
4	YGWA-5I	WG	G			-	-		5	2		3						x	x	x	x			pH: 5.50
5	YGWA-5D	WG	G			-	-		6	2		3						x	x	x	x			pH:
6	YGWA-17S	WG	G			-	-		6	2		3						x	x	x	-			pH:
7	YGWA-18S	WG	G			-	-		6	2		3						x	x	x	x			pH:
8	YGWA-18I	WG	G			-	-		5	2		3						x	x	x	x			pH:
9	YGWA-20S	WG	G	8/31	1257	-	-		6	2		3						x	x	x	x			pH:
10	YGWA-21I	WG	G			-	-		6	2		3						x	x	x	x			pH: 5.38
11	YGWA-30I	WG	G			-	-		5	2		3						x	x	x	x			pH:
12	YGWA-14S	WG	G			-	-		5	2		3						x	x	x	x			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware / Arcadis	9/1/22	0700	[signature] / Arc	9/1/22	0700	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	[signature] / Arc	9/1/22		Ryan Williams / Pace	9/1/22	0945	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se); 7040A: Mercury (Hg)	Ryan Williams / Pace	9/1/22	1055	[signature]	9/1/22	1055	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: [signature] DATE Signed: 9/1/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax
Requested Due Date:	

Section B
Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C
Invoice Information:

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

Page: 1 of 1

State / Location: Georgia

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

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)
1	YGWA-47	WG	G	8/31	0915	-	-		5	2		3						x	x	x	x		
2	GWA-2	WG	G			-	-		6	2		3						x	x	x	x	x	pH: 5.32
3	YGWA-4I	WG	G			-	-		5	2		3						x	x	x	x		pH:
4	YGWA-5I	WG	G			-	-		5	2		3						x	x	x	x		pH:
5	YGWA-5D	WG	G			-	-		5	2		3						x	x	x	x		pH:
6	YGWA-17S	WG	G			-	-		5	2		3						x	x	x	.		pH:
7	YGWA-18S	WG	G			-	-		5	2		3						x	x	x	x		pH:
8	YGWA-18I	WG	G			-	-		5	2		3						x	x	x	x		pH:
9	YGWA-20S	WG	G			-	-		5	2		3						x	x	x	x		pH:
10	YGWA-21I	WG	G			-	-		5	2		3						x	x	x	x		pH:
11	YGWA-30I	WG	G			-	-		5	2		3						x	x	x	x		pH:
12	YGWA-14S	WG	G			-	-		5	2		3						x	x	x	x		pH:

Anions Suite 300.0 (Cl, F, Sulfate)
App III Metals: Boron 6020B, Ca 6010D;
App I/II 6020B: Zn, Ag, Ni, V
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)
7040A: Mercury (Hg)

Relinquished by / Affiliation	Date	Time	Accepted by / Affiliation	Date	Time
[signature] / Arcadis	9/1/22	0800	[signature] / AS	9/1/22	0800
[signature] / AS	9/1/22		Ryan Williams / Pace	9/1/22	0905
Ryan Williams / Pace	9/1/22	1056	[signature]	9/1/22	1055

PRINT Name of SAMPLER: Jake Swanson
SIGNATURE of SAMPLER: [signature]
DATE Signed: 9/1/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 3

Section A
Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	jaucoker@southernco.com
Phone:	470.620.6176 Fax
Requested Due Date:	

Section B
Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C
Invoice Information:

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

Regulatory Agency

State / Location: Georgia

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

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-39	WG	G			-	-		5	2		3						X	X	X	X			
2	YGWA-40	WG	G			-	-		5	2		3						X	X	X	X			pH:
3	YGWA-1I	WG	G	9/1	0916	-	-		5	2		3						X	X	X	X			pH:
4	YGWA-1D	WG	G			-	-		5	2		3						X	X	X	X			pH: 5.64
5	YGWA-2I	WG	G			-	-		5	2		3						X	X	X	X			pH:
6	YGWA-3I	WG	G			-	-		5	2		3						X	X	X	X			pH:
7	YGWA-3D	WG	G			-	-		5	2		3						X	X	X	X			pH:
8						-	-																	pH:
9						-	-																	pH:
10						-	-																	pH:
11						-	-																	pH:
12						-	-																	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carson, Arcadis	9/1/22	0300	[signature]	9/1/22	0300	
App III Metals: Boron 6020B, Ca 6010D; App IV 6020B: Zn, Ag, Ni, V	[signature] / Aes	9/1/22		Ryan Williams / Pace	9/1/22	0905	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7470A: Mercury (Hg)	Ryan Williams / Pace	9/1/22	1056	[signature]	9/1/22	1055	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Khalil Carson

SIGNATURE of SAMPLER: [signature] DATE Signed: 9/1

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

2377 / 3226

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 Of 2

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax:
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

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

Georgia

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

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-47	WG	G			–	–		5	2		3						x	x	x	x			
2	GWA-2	WG	G			–	–		5	2		3						x	x	x	x	x		pH:
3	YGWA-4I	WG	G			–	–		8	2		3						x	x	x	x			pH:
4	YGWA-5I	WG	G			–	–		5	2		3						x	x	x	x			pH:
5	YGWA-5D	WG	G			–	–		5	2		3						x	x	x	·			pH:
6	YGWA-17S	WG	G			–	–		5	2		3						x	x	x	x			pH:
7	YGWA-18S	WG	G			–	–		5	2		3						x	x	x	x			pH:
8	YGWA-18I	WG	G			–	–		5	2		3						x	x	x	x			pH:
9	YGWA-20S	WG	G			–	–		5	2		3						x	x	x	x			pH:
10	YGWA-21I	WG	G			–	–		5	2		3						x	x	x	x			pH:
11	YGWA-30I	WG	G	8/31	1130	–	–		5	2		3						x	x	x	x			pH: 5.87
12	YGWA-14S	WG	G	8/31	1415	–	–		5	2		3						x	x	x	x			pH: 5.15

ADDITIONAL COMMENTS

Anions Suite 300.0 (Cl, F, Sulfate)

App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V

App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Khalil Carson / Arcadis	9/1/22	0800	[illegible] / Arcadis	9/1/22	800	
[illegible] / Arcadis			Ryan Williams / Pace	9/1/22	0915	
Ryan Williams / Pace	9/1/22	1055	[illegible]	9/1/22	1055	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Khalil Carson

SIGNATURE of SAMPLER: [illegible] DATE Signed: 9/1

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	3277
1	YGWA-47	WG	G			–	–		5	2		3							X	X	X	X			pH:
2	GWA-2	WG	G	8/30	1005	–	–		5	2		3							X	X	X	X	X		pH: 5.39
3	YGWA-4I	WG	G			–	–		5	2		3							X	X	X	X			pH:
4	YGWA-5I	WG	G			–	–		5	2		3							X	X	X	X			pH:
5	YGWA-5D	WG	G			–	–		5	2		3							X	X	X				pH:
6	YGWA-17S	WG	G			–	–		5	2		3							X	X	X	X			pH:
7	YGWA-18S	WG	G			–	–		5	2		3							X	X	X	X			pH:
8	YGWA-18I	WG	G			–	–		5	2		3							X	X	X	X			pH:
9	YGWA-20S	WG	G			–	–		5	2		3							X	X	X	X			pH:
10	YGWA-21I	WG	G			–	–		5	2		3							X	X	X	X			pH:
11	YGWA-30I	WG	G			–	–		5	2		3							X	X	X	X			pH:
12	YGWA-14S	WG	G			–	–		5	2		3							X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/31/22	800	/Arcadis	8/31/22	0800	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	AVS	8/31/22	1003	Ryan Williams / Pace	8/31/22	1003	
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	8/31/22	1153		8/31/22	1153	

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:	Jake Sowards					
SIGNATURE of SAMPLER:		DATE Signed: 8/31/22				

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency: State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	3226
1	YGWA-47	WG	G			--	--		5	2		3							X	X	X	X			pH:
2	GWA-2	WG	G			--	--		5	2		3							X	X	X	X	X		pH:
3	YGWA-4I	WG	G			--	--		5	2		3							X	X	X	X			pH:
4	YGWA-5I	WG	G			--	--		5	2		3							X	X	X	X			pH:
5	YGWA-5D	WG	G			--	--		5	2		3							X	X	X				pH:
6	YGWA-17S	WG	G	8/30	1540	--	--		5	2		3							X	X	X	X			pH: 4.68
7	YGWA-18S	WG	G	8/30	1030	--	--		5	2		3							X	X	X	X			pH: 5.18
8	YGWA-18I	WG	G	8/30	1335	--	--		5	2		3							X	X	X	X			pH: 5.82
9	YGWA-20S	WG	G			--	--		5	2		3							X	X	X	X			pH:
10	YGWA-21I	WG	G			--	--		5	2		3							X	X	X	X			pH:
11	YGWA-30I	WG	G			--	--		5	2		3							X	X	X	X			pH:
12	YGWA-14S	WG	G			--	--		5	2		3							X	X	X	X			pH:

sample time 1010

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/31/22	0750	/Pace	8/31/22	0850	
App III Metals: Boron 6020B, Ca 6010D; App VI 6020B: Zn, Ag, Ni, V		8/31/22	1002	Ryan Williams / Pace	8/31/22	1103	
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	8/31/22	1153		8/31/22	1153	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware

SIGNATURE of SAMPLER: Jessica Ware DATE Signed: 8/31/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

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

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
	Requested Analysis Filtered (Y/N)																								
1	YGWA-47	WG	G			--	--		5	2		3							X	X	X	X			pH:
2	GWA-2	WG	G			--	--		5	2		3							X	X	X	X	X		pH:
3	YGWA-4I	WG	G			--	--		5	2		3							X	X	X	X			pH:
4	YGWA-5I	WG	G	8/30/21	1052	--	--		5	2		3							X	X	X	X			pH: 5.00
5	YGWA-5D	WG	G	8/30/21	1205	--	--		5	2		3							X	X	X				pH: 7.40
6	YGWA-17S	WG	G			--	--		5	2		3							X	X	X	X			pH:
7	YGWA-18S	WG	G			--	--		5	2		3							X	X	X	X			pH:
8	YGWA-18I	WG	G			--	--		5	2		3							X	X	X	X			pH:
9	YGWA-20S	WG	G			--	--		5	2		3							X	X	X	X			pH:
10	YGWA-21I	WG	G	8/30/21	1430	--	--		5	2		3							X	X	X	X			pH: 6.58
11	YGWA-30I	WG	G			--	--		5	2		3							X	X	X	X			pH:
12	YGWA-14S	WG	G			--	--		5	2		3							X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/31/21	1003	Ryan Williams / Pace	8/31/22	1003	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	Ryan Williams / Pace	8/31/22	1153		8/31/22	1153	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Mark Chest					
SIGNATURE of SAMPLER:		DATE Signed: 8/31/21				

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
	MATRIX: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Other OT, Tissue TS																								
1	YGWA-39	WG	G			--	--		5	2		3						X	X	X	X				pH:
2	YGWA-40	WG	G			--	--		5	2		3						X	X	X	X				pH:
3	YGWA-1I	WG	G			--	--		5	2		3						X	X	X	X				pH:
4	YGWA-1D	WG	G	8/30	1550	--	--		5	2		3						X	X	X	X				pH: 7.2
5	YGWA-2I	WG	G	8-30	1000	--	--		5	2		3						X	X	X	X				pH: 7.04
6	YGWA-3I	WG	G			--	--		5	2		3						X	X	X	X				pH:
7	YGWA-3D	WG	G			--	--		5	2		3						X	X	X	X				pH:
8						--	--																		pH:
9						--	--																		pH:
10						--	--																		pH:
11						--	--																		
12						--	--																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Rhett Carson /Arcadis	8/31/22	800	[signature] AMS	8/31/22	800	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	[signature] AMS	8/31/22	1003	Ryan Williams / Pace	8/31/22	1003	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	8/31/22	1153	[signature]	8/31/22	1153	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Rhett Carson

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/31

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

Pace	DC#_Title: ENV-FRM-HUN1-0083 v01_Sample Condition Upon Receipt
	Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92623277

PM: NMG Due Date: 09/22/22

CLIENT: GA-GA Power

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

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

Date/Initials Person Examining Contents: 9/1/22 DF

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.5 Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 2.5

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

pH Strip Lot# 10D4611

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

2377
3226

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320		App I / II (gpysum only)							Residual Chlorine (Y/N)	
1	YGWA-47	WG	G			–	–		5	2		3							X	X	X	X								pH:
2	GWA-2	WG	G			–	–		5	2		3							X	X	X	X		X						pH:
3	YGWA-4I	WG	G			–	–		5	2		3							X	X	X	X								pH:
4	YGWA-5I	WG	G			–	–		5	2		3							X	X	X	X								pH:
5	YGWA-5D	WG	G			–	–		5	2		3							X	X	X	·								pH:
6	YGWA-17S	WG	G			–	–		5	2		3							X	X	X	X								pH:
7	YGWA-18S	WG	G			–	–		5	2		3							X	X	X	X								pH:
8	YGWA-18I	WG	G			–	–		5	2		3							X	X	X	X								pH:
9	YGWA-20S	WG	G			–	–		5	2		3							X	X	X	X								pH:
10	YGWA-21I	WG	G			–	–		5	2		3							X	X	X	X								pH:
11	YGWA-30I	WG	G	8/31	1130	–	–		5	2		3							X	X	X	X								pH: 5.87
12	YGWA-14S	WG	G	9/1	1415	–	–		5	2		3							X	X	X	X								pH: 5.15

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carson /Arcadis	9/1/22	0800	[signature] AWS	9/1/22	800	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	[signature] /AWS			Ryan Williams / Pace	9/1/22	0905	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	9/1/22	1053				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Khalil Carson

SIGNATURE of SAMPLER: [signature] DATE Signed: 9/1

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 2 Of 3

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-39	WG	G			–	–		5	2		3						X	X	X	X				pH:
2	YGWA-40	WG	G			–	–		5	2		3						X	X	X	X				pH:
3	YGWA-1I	WG	G	9/31	0916	–	–		5	2		3						X	X	X	X				pH: 5.64
4	YGWA-1D	WG	G			–	–		5	2		3						X	X	X	X				pH:
5	YGWA-2I	WG	G			–	–		5	2		3						X	X	X	X				pH:
6	YGWA-3I	WG	G			–	–		5	2		3						X	X	X	X				pH:
7	YGWA-3D	WG	G			–	–		5	2		3						X	X	X	X				pH:
8						–	–																		pH:
9						–	–																		pH:
10						–	–																		pH:
11						–	–																		
12						–	–																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carson /Arcadis	8/1/22	0800	Ryan Williams / Pace	9/1/22	0800	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	/Arcadis	9/1/22					
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	9/1/22	1056				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Khalil Carson

SIGNATURE of SAMPLER: [signature] DATE Signed: 9/1

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax
Requested Due Date:	

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

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

Regulatory Agency: —
State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/V Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-47	WG	G	8/31	0915	–	–		5	2		3							X	X	X	X			pH: 5.32
2	GWA-2	WG	G			–	–		5	2		3							X	X	X	X	X		pH:
3	YGWA-4I	WG	G			–	–		5	2		3							X	X	X	X			pH:
4	YGWA-5I	WG	G			–	–		5	2		3							X	X	X	X			pH:
5	YGWA-5D	WG	G			–	–		5	2		3							X	X	X	·			pH:
6	YGWA-17S	WG	G			–	–		5	2		3							X	X	X	X			pH:
7	YGWA-18S	WG	G			–	–		5	2		3							X	X	X	X			pH:
8	YGWA-18I	WG	G			–	–		5	2		3							X	X	X	X			pH:
9	YGWA-20S	WG	G			–	–		5	2		3							X	X	X	X			pH:
10	YGWA-21I	WG	G			–	–		5	2		3							X	X	X	X			pH:
11	YGWA-30I	WG	G			–	–		5	2		3							X	X	X	X			pH:
12	YGWA-14S	WG	G			–	–		5	2		3							X	X	X	X			pH:

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	9/1/22	0800	AS	9/1/22	0800	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	AS	9/1/22		Ryan Williams / Pace	9/1/22	0905	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	9/1/22	1056				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jake Swanson

SIGNATURE of SAMPLER:

DATE Signed: 9/1/22

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

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency
State / Location
Georgia

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
										Requested Analysis Filtered (Y/N)															
1	YGWA-47	WG	G			–	–		5	2		3						X	X	X	X				pH:
2	GWA-2	WG	G			–	–		5	2		3						X	X	X	X		X		pH:
3	YGWA-4I	WG	G	8/31	1537	–	–		5	2		3						X	X	X	X				pH: 5.50
4	YGWA-5I	WG	G			–	–		5	2		3						X	X	X	X				pH:
5	YGWA-5D	WG	G			–	–		5	2		3						X	X	X	·				pH:
6	YGWA-17S	WG	G			–	–		5	2		3						X	X	X	X				pH:
7	YGWA-18S	WG	G			–	–		5	2		3						X	X	X	X				pH:
8	YGWA-18I	WG	G			–	–		5	2		3						X	X	X	X				pH:
9	YGWA-20S	WG	G	8/31	1257	–	–		5	2		3						X	X	X	X				pH: 5.38
10	YGWA-21I	WG	G			–	–		5	2		3						X	X	X	X				pH:
11	YGWA-30I	WG	G			–	–		5	2		3						X	X	X	X				pH:
12	YGWA-14S	WG	G			–	–		5	2		3						X	X	X	X				pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware /Arcadis	8/1/22	0300		8/1/22	0200	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	/AES	8/1/22		Ryan Williams / Pace	8/1/22	0905	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	8/1/22	1045				

SAMPLER NAME AND SIGNATURE						
PRINT Name of SAMPLER: Jessica Ware			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:	DATE Signed: 9/1/22					

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YGWA-39	WG	G	8/31/22	1350	–	–		5	2		3						X	X	X	X	X			pH: 5.30
2	YGWA-40	WG	G	8/31/22	1640	–	–		5	2		3						X	X	X	X	X			pH: 4.53
3	YGWA-1I	WG	G			–	–		5	2		3						X	X	X	X	X			pH:
4	YGWA-1D	WG	G			–	–		5	2		3						X	X	X	X	X			pH:
5	YGWA-2I	WG	G			–	–		5	2		3						X	X	X	X	X			pH:
6	YGWA-3I	WG	G			–	–		5	2		3						X	X	X	X	X			pH:
7	YGWA-3D	WG	G			–	–		5	2		3						X	X	X	X	X			pH:
8						–	–																		pH:
9						–	–																		pH:
10						–	–																		pH:
11						–	–																		pH:
12						–	–																		

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

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	[signature] /Arcadis	9/1/22		Ryan Williams /Pace	9/1/22	0905	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	Ryan Williams /Pace	9/1/22	1055				
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: [signature]

SIGNATURE of SAMPLER: [signature] DATE Signed: 9/1/22

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

3 3726 3727

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
				Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency
State / Location
Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gpysum only)	Residual Chlorine (Y/N)	
1	YGWA-39	WG	G			–	–		5	2		3							X	X	X	X			
2	YGWA-40	WG	G			–	–		5	2		3							X	X	X	X			pH:
3	YGWA-1I	WG	G			–	–		5	2		3							X	X	X	X			pH:
4	YGWA-1D	WG	G			–	–		5	2		3							X	X	X	X			pH:
5	YGWA-2I	WG	G			–	–		5	2		3							X	X	X	X			pH:
6	YGWA-3I	WG	G	8/31	1054	–	–		5	2		3							X	X	X	X			pH: 7.49
7	YGWA-3D	WG	G	8/31	0930	–	–		5	2		3							X	X	X	X			pH: 7.65
8						–	–																		pH:
9						–	–																		pH:
10						–	–																		pH:
11						–	–																		
12						–	–																		

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	9/1/22	0200	/AS	9/1/22	0300	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	/Pace	9/1/22		Kyan Williams / Pace	9/1/22	0905	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Kyan Williams / Pace	9/1/22	1055				

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	JESSICA WARE				
SIGNATURE of SAMPLER:		DATE Signed:	9/1/22	TEMP in C	Received on Ice (Y/N) / Custody Sealed Cooler (Y/N) / Samples Intact (Y/N)

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test: Ra-226
Analyst: RMS
Date: 9/14/2022
Worklist: 68729
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2574649
MB concentration:	0.032
M/B Counting Uncertainty:	0.099
MB MDC:	0.243
MB Numerical Performance Indicator:	0.63
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS68729	LCSD68729
Count Date:	9/22/2022	9/22/2022
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.023	24.023
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.508	0.504
Target Conc. (pCi/L, g, F):	4.733	4.770
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	4.446	4.834
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.486	0.526
Numerical Performance Indicator:	-1.15	0.24
Percent Recovery:	93.94%	101.34%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS68729	92623277016
Duplicate Sample I.D.	LCSD68729	92623277016DUP
Sample Result (pCi/L, g, F):	4.446	0.642
Sample Result Counting Uncertainty (pCi/L, g, F):	0.486	0.193
Sample Duplicate Result (pCi/L, g, F):	4.834	0.556
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.526	0.176
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-1.063	0.644
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.58%	14.33%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	25%	25%

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

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

Comments:

LAm 9/22/22

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	9/9/2022
Worklist:	68728
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2574648
MB concentration:	0.757
M/B 2 Sigma CSU:	0.340
MB MDC:	0.552
MB Numerical Performance Indicator:	4.37
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	N
	LCS68728	LCSD68728
Count Date:	9/21/2022	
Spike I.D.:	22-016	
Decay Corrected Spike Concentration (pCi/mL):	34.254	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.807	
Target Conc. (pCi/L, g, F):	4.245	
Uncertainty (Calculated):	0.208	
Result (pCi/L, g, F):	4.828	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.031	
Numerical Performance Indicator:	1.09	
Percent Recovery:	113.74%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	135%	
Lower % Recovery Limits:	60%	

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

Duplicate Sample Assessment		
Sample I.D.:	92623277006	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	92623277006DUP	
Sample Result (pCi/L, g, F):	2.215	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.587	
Sample Duplicate Result (pCi/L, g, F):	1.505	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.470	
Are sample and/or duplicate results below RL?	See Below ##	
Duplicate Numerical Performance Indicator:	1.850	92623277006
Duplicate RPD:	38.13%	92623277006DUP
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Fail***	
% RPD Limit:	36%	

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

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

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

9/22/22

9/22/22

February 2023

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92651415 and 92651423

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

Report #49113R
Review Level: Tier II
Project: 30143622.3

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92651415 and 92651423 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-GWC-6R	92651415001 92651423001	Water	2/7/2023		X	X	X
YAT-GWC-5R	92651415002 92651423002	Water	2/7/2023		X	X	X
YAT-GWC-1R	92651415003 92651423003	Water	2/7/2023		X	X	X
YAT-GWC-3R	92651415004 92651423004	Water	2/8/2023		X	X	X
YAT-GWC-4R	92651415005 92651423005	Water	2/8/2023		X	X	X
YAT-GWC-2R	92651415006 92651423006	Water	2/8/2023		X	X	X
YAT-GLF-EB-1	92651415007 92651423007	Water	2/8/2023		X	X	X
YAT-GLF-FB-1	92651415008 92651423008	Water	2/8/2023		X	X	X
YAT-GLF-FD-1	92651415009 92651423009	Water	2/8/2023	YAT-GWC-4R	X	X	X

Notes:

1. Metals and total dissolved solids (TDS) analysis performed by Pace Analytical Services – Peachtree Corners, Georgia.
2. Alkalinity and 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, SM2540C, and SB2320B; and USEPA Method 300.0. Data were reviewed in accordance with USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma–Atomic Emission Spectroscopy and Inductively Coupled Plasma–Mass Spectroscopy (September 2011, Rev. 2), USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2), and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-45, October 2004, as appropriate).

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

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

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

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

Metals Analyses

1. Holding Times

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

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

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

Sample Locations	Analytes	Sample Result	Qualification
YAT-GWC-6R YAT-GWC-5R YAT-GWC-1R YAT-GWC-3R YAT-GWC-4R YAT-GLF-FD-1	Chromium (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 was performed using sample YAT-GWC-1R in association with SW-846 6010D. The concentrations of calcium, magnesium, and sodium in the unspiked sample were greater than four-times the spike concentration, hence, the SW-846 6010D MS/MSD sample results were not evaluated.

The MS/MSD analysis performed using sample YAT-GWC-6R 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 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 6010D and SW-846 7470A analysis. 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 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.

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-GWC-4R / YAT-GLF-FD-1	Calcium	39.0	38.9	0.3%
	Potassium	1.4	1.3	7.4%
	Sodium	14.7	14.8	0.7%
	Magnesium	34.9	35.0	0.3%
	Barium	0.034	0.035	2.9%
	Boron	2.7	3.1	13.8%
	Beryllium	0.00013 J	0.00014 J	AC
	Cobalt	0.00060 J	0.00059 J	
	Lithium	0.00098 J	0.0010 J	
	Selenium	0.0029 J	0.0034 J	
	Mercury	0.00020 J	0.00020	

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-GWC-4R and field duplicate sample YAT-GLF-FD-1 were acceptable.

5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

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

Data Validation Checklist for Metals

METALS: SW-846 6010D/6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
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.

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

Sample Locations	Analytes	Sample Result	Qualification
YAT-GWC-3R	TDS (EB)	Detected sample results >RL and <BAL	“UB” at detected sample result

Notes:
EB = Equipment blank
RL = Reporting limit

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

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

3.1 MS/MSD Analysis

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

The MS/MSD analysis performed using samples YAT-GWC-5R and YAT-GWC-1R in association with alkalinity analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using samples YAT-GWC-6R and YAT-GLF-EB-1 in association with anions analysis exhibited recoveries within the control limits.

3.2 Laboratory Duplicate Analysis

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

Laboratory duplicate analysis was not performed using a sample from this SDG in association with TDS.

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
YAT-GWC-4R / YAT-GLF-FD-1	TDS	718	520	32.0%
	Alkalinity, Bicarbonate (CaCO3)	33.3	39.6	17.3%
	Alkalinity, Total as CaCO3	33.3	39.6	17.3%
	Chloride	121	123	1.6%
	Sulfate	87.8	93.2	6.0%
	Alkalinity, Carbonate (CaCO3)	5.0 U	5.0 U	AC
	Fluoride	0.050 J	0.10 U	

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-GWC-4R and field duplicate sample YAT-GLF-FD-1 were acceptable.

5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

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

Data Validation Checklist for General Chemistry

General Chemistry: 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 minimum detectable concentration (MDC).

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

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

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

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

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

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

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

Radium-228 was detected in the method blank (batch 567006) at an activity greater than the uncertainty and MDC. The NAD was calculated for each sample. The Radium-228 results in samples YAT-GWC-5R and YAT-GWC-1R were qualified as "J" since the NAD were less than 1.96. No qualifiers were assigned to the Radium-228 results in the other associated field samples since the activities were less than the MDC.

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

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

3.1 MS Analysis

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

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

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

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

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

Where:

x = measured concentration of the spiked sample.

x_0 = measured concentration of the unspiked sample.

c = spike concentration added.

$u^2(x)$, $u^2(x0)$, $u^2(c)$ = the squares of the respective standard uncertainties of these values.

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

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:

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
YAT-GWC-4R / YAT-GLF-FD-1	Radium-226	0.180 ± 0.132	0.124 ± 0.115	AC
	Radium-228	0.273 ± 0.343	-0.0541 ± 0.269	
	Total Radium	0.453 ± 0.475	0.124 ± 0.384	

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-GWC-4R and field duplicate sample YAT-GLF-FD-1 were acceptable. As noted in Section 7, the results for Radium-226, Radium-228, and Total Radium in samples YAT-GWC-4R and YAT-GLF-FD-1 were less than the MDC and should be considered not detected.

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:

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

8. System Performance and Overall Assessment

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

Data Validation Checklist for Radiologicals

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

Notes:

%R Percent recovery

RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE: 

DATE: April 27, 2023

PEER REVIEW: Joseph C. Houser

DATE: May 8, 2023

Chain of Custody / Data Qualifier Summary Table

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A — Required Client Information:

Company: GA Power
Address: Atlanta, GA
Email To: laucoker@southernco.com
Phone: 470.620.6176 Fax:
Requested Due Date: Standard TAT

Section B — Required Project Information:

Report To: SCS Contacts
Copy To: Arcadis Contacts
Task No: YAT-CCR-ASSMT-202361
Purchase Order #:
Project Name: Plant Yates Gypsum Landfill
Project Number:

Section C — Invoice Information:

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

Regulatory Agency:
State / Location: Georgia

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

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

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Analyses Test	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651415
1	YAT-GWC-6R	WG	G	2/7/23	1330	-	-		6	3		3							X	X	X	X	X	X		pH: 4.31 GW
2	YAT-GWC-5R	WG	G	2/7/23	1610	-	-		6	3		3							X	X	X	X	X	X		pH: 4.62 GW
3	YAT-GWC-1R	WG	G	2/7/23	1455	-	-		6	3		3							X	X	X	X	X	X		pH: 6.66 GW
4	YAT-GWC-3R	WG	G			-	-		6	3		3							X	X	X	X	X	X		pH:
5	YAT-GWC-4R	WG	G			-	-		6	3		3							X	X	X	X	X	X		pH:
6	YAT-GWC-2R	WG	G			-	-		6	3		3							X	X	X	X	X	X		pH:
7	YAT-GLF-EB-1	WG	G			-	-		6	3		3							X	X	X	X	X	X		pH:
8	YAT-GLF-FB-1	WG	G			-	-		6	3		3							X	X	X	X	X	X		pH:
9	YAT-GLF-FD-1	WG	G			-	-		6	3		3							X	X	X	X	X	X		pH:
10						-	-																			pH:
11						-	-																			
12						-	-																			

ADDITIONAL COMMENTS

Anions Suite 300.0 (Cl, F, Sulfate)
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se); 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Mark Chest /Arcadis	2/8/23	0800	Ryan Williams / Pace	2/8/23	0906
Ryan Williams / Pace	2/8/23	1240			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) - Mark Chest
SIGNATURE of SAMPLER: (Arcadis) - [signature] DATE Signed: 2/8/23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucuker@southernco.com
Phone:	470.620.6176 Fax:
Requested Due Date:	Standard TAT

Section B
Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-2023S1
Purchase Order #:	
Project Name:	Plant Yates Gypsum Landfill
Project Number:	

Section C
Invoice Information:

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

Page: 1 Of 1

Regulatory Agency

State / Location: Georgia

Requested Analysis Filtered (Y/N)

92651415

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

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YAT-GWC-6R	WG	G			–	–		6	3		3							X	X	X	X	X	X		pH:
2	YAT-GWC-5R	WG	G			–	–		6	3		3							X	X	X	X	X	X		pH:
3	YAT-GWC-1R	WG	G			–	–		6	3		3							X	X	X	X	X	X		pH:
4	YAT-GWC-3R	WG	G	2/8/23	1130	–	–		6	3		3							X	X	X	X	X	X		pH: 5.21 004
5	YAT-GWC-4R	WG	G	2/7/23	1323	–	–		6	3		3							X	X	X	X	X	X		pH: 5.64 005
6	YAT-GWC-2R	WG	G	2/9/23	1457	–	–		6	3		3							X	X	X	X	X	X		pH: 4.94 006
7	YAT-GLF-EB-1	WG	G	2/9/23	1520	–	–		6	3		3							X	X	X	X	X	X		pH: – 007
8	YAT-GLF-FB-1	WG	G	2/8/23	1135	–	–		6	3		3							X	X	X	X	X	X		pH: – 008
9	YAT-GLF-FD-1	WG	G	2/8/23	—	–	–		6	3		3							X	X	X	X	X	X		pH: – 009
10						–	–																			
11						–	–																			
12						–	–																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	[signature] /Arcadis	2/9/23	0920	Ryan Williams / Pace	2/9/23	0920	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	Ryan Williams / Pace	2/9/23	1235	[signature]	2/9/23	1235	
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate**							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) - Mark Chest

SIGNATURE of SAMPLER: (Arcadis) - [signature] DATE Signed: 2/9/23

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

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92651423	YAT-GWC-5R	SW846 9320	Radium-228	0.848 +/- 0.402	pCi/L	J	Blank contamination
	YAT-GWV-1R	SW846 9320	Radium-228	1.00 +/- 0.417	pCi/L	J	Blank contamination
92651415	YAT-GWC-6R	SW846 6020B	Chromium	0.0050	mgL	UB	Blank contamination
	YAT-GWC-5R	SW846 6020B	Chromium	0.0050	mgL	UB	Blank contamination
	YAT-GWC-1R	SW846 6020B	Chromium	0.0050	mgL	UB	Blank contamination
	YAT-GWC-3R	SW846 6020B	Chromium	0.0050	mgL	UB	Blank contamination
		SM2540C	TDS	101	mgL	UB	Blank contamination
	YAT-GWC-4R	SW846 6020B	Chromium	0.0050	mgL	UB	Blank contamination

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

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

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

April 26, 2023

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

RE: Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 08, 2023 and February 09, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,

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

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Noelia Gangi, Georgia Power
Geoffrey Gay, ARCADIS - Atlanta
Ben Hodges, Georgia Power-CCR
Kristen Jurinko
Laura Midkiff, Georgia Power
Kelley Sharpe, ARCADIS - Atlanta
Alex Simpson, Arcadis
Michael Smilley, Georgia Power
Becky Steever, Arcadis
Tina Sullivan, ERM
Albert Zumbuhl, Arcadis

REPORT OF LABORATORY ANALYSIS

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

CERTIFICATIONS

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

Pace Analytical Services Charlotte
South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001

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

SAMPLE SUMMARY

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92651415001	**YAT-GWC-6R**	Water	02/07/23 13:30	02/08/23 09:06
92651415002	**YAT-GWC-5R**	Water	02/07/23 16:10	02/08/23 09:06
92651415003	**YAT-GWC-1R**	Water	02/07/23 14:35	02/08/23 09:06
92651415004	**YAT-GWC-3R**	Water	02/08/23 11:30	02/09/23 12:35
92651415005	**YAT-GWC-4R**	Water	02/08/23 13:23	02/09/23 12:35
92651415006	**YAT-GWC-2R**	Water	02/08/23 14:55	02/09/23 12:35
92651415007	**YAT-GLF-EB-1**	Water	02/08/23 15:20	02/09/23 12:35
92651415008	**YAT-GLF-FB-1**	Water	02/08/23 11:35	02/09/23 12:35
92651415009	**YAT-GLF-FD-1**	Water	02/08/23 00:00	02/09/23 12:35

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

SAMPLE ANALYTE COUNT

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92651415001	**YAT-GWC-6R**	EPA 6010D	MS	4
		EPA 6020B	DRB	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651415002	**YAT-GWC-5R**	EPA 6010D	MS	4
		EPA 6020B	DRB	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651415003	**YAT-GWC-1R**	EPA 6010D	MS	4
		EPA 6020B	DRB	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651415004	**YAT-GWC-3R**	EPA 6010D	MS	4
		EPA 6020B	DRB	18
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651415005	**YAT-GWC-4R**	EPA 6010D	MS	4
		EPA 6020B	DRB	18
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651415006	**YAT-GWC-2R**	EPA 6010D	MS	4
		EPA 6020B	DRB	18
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651415007	**YAT-GLF-EB-1**	EPA 6010D	MS	4

REPORT OF LABORATORY ANALYSIS

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

SAMPLE ANALYTE COUNT

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020B	CW1, DRB	18
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651415008	**YAT-GLF-FB-1**	EPA 6010D	MS	4
		EPA 6020B	CW1, DRB	18
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651415009	**YAT-GLF-FD-1**	EPA 6010D	MS	4
		EPA 6020B	CW1, DRB	18
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3

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

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

SUMMARY OF DETECTION

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651415001	**YAT-GWC-6R**					
	Performed by	Client			03/03/23 09:54	
	Collected By	Mark Chest			03/03/23 09:54	
	Collected Date	02/07/23			03/03/23 09:54	
	Collected Time	13:30			03/03/23 09:54	
	pH	4.81	Std. Units		03/03/23 09:54	
EPA 6010D	Potassium	1.9	mg/L	0.20	02/22/23 17:12	
EPA 6010D	Sodium	9.0	mg/L	1.0	02/22/23 17:12	
EPA 6010D	Calcium	30.8	mg/L	1.0	02/22/23 17:12	
EPA 6010D	Magnesium	23.4	mg/L	0.050	02/22/23 17:12	
EPA 6020B	Barium	0.032	mg/L	0.0050	02/22/23 20:03	
EPA 6020B	Chromium	0.0025J	mg/L	0.0050	02/22/23 20:03	
EPA 6020B	Lithium	0.0017J	mg/L	0.030	02/22/23 20:03	
SM 2540C-2015	Total Dissolved Solids	259	mg/L	25.0	02/13/23 11:04	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	66.0	mg/L	5.0	02/15/23 20:56	
SM 2320B-2011	Alkalinity, Total as CaCO3	66.0	mg/L	5.0	02/15/23 20:56	
EPA 300.0 Rev 2.1 1993	Chloride	7.9	mg/L	1.0	02/10/23 13:26	
EPA 300.0 Rev 2.1 1993	Fluoride	0.070J	mg/L	0.10	02/10/23 13:26	
EPA 300.0 Rev 2.1 1993	Sulfate	110	mg/L	2.0	02/11/23 06:00	
92651415002	**YAT-GWC-5R**					
	Performed by	Client			03/03/23 09:55	
	Collected By	Mark Chest			03/03/23 09:55	
	Collected Date	02/07/23			03/03/23 09:55	
	Collected Time	16:10			03/03/23 09:55	
	pH	4.62	Std. Units		03/03/23 09:55	
EPA 6010D	Potassium	1.3	mg/L	0.20	02/22/23 17:17	
EPA 6010D	Sodium	11.5	mg/L	1.0	02/22/23 17:17	
EPA 6010D	Calcium	112	mg/L	1.0	02/22/23 17:17	
EPA 6010D	Magnesium	160	mg/L	0.050	02/22/23 17:17	
EPA 6020B	Arsenic	0.0054	mg/L	0.0050	02/22/23 20:09	
EPA 6020B	Barium	0.011	mg/L	0.0050	02/22/23 20:09	
EPA 6020B	Beryllium	0.0025	mg/L	0.00050	02/22/23 20:09	
EPA 6020B	Boron	0.017J	mg/L	0.040	02/22/23 20:09	
EPA 6020B	Cadmium	0.0013	mg/L	0.00050	02/22/23 20:09	
EPA 6020B	Chromium	0.0028J	mg/L	0.0050	02/22/23 20:09	
EPA 6020B	Cobalt	0.00085J	mg/L	0.0050	02/22/23 20:09	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	02/22/23 20:09	
EPA 6020B	Selenium	0.020	mg/L	0.0050	02/22/23 20:09	
EPA 6020B	Zinc	0.023	mg/L	0.010	02/22/23 20:09	
SM 2540C-2015	Total Dissolved Solids	1370	mg/L	25.0	02/13/23 11:04	
EPA 300.0 Rev 2.1 1993	Chloride	2.1	mg/L	1.0	02/10/23 14:16	
EPA 300.0 Rev 2.1 1993	Fluoride	0.077J	mg/L	0.10	02/10/23 14:16	
EPA 300.0 Rev 2.1 1993	Sulfate	935	mg/L	19.0	02/11/23 06:48	
92651415003	**YAT-GWC-1R**					
	Performed by	Client			03/03/23 09:58	
	Collected By	Mark Chest			03/03/23 09:58	
	Collected Date	02/07/23			03/03/23 09:58	

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

SUMMARY OF DETECTION

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651415003	**YAT-GWC-1R**					
	Collected Time	14:35			03/03/23 09:58	
	pH	5.16	Std. Units		03/03/23 09:58	
EPA 6010D	Potassium	2.7	mg/L	0.20	02/22/23 17:22	
EPA 6010D	Sodium	7.0	mg/L	1.0	02/22/23 17:22	M1
EPA 6010D	Calcium	179	mg/L	1.0	02/22/23 17:22	M1
EPA 6010D	Magnesium	117	mg/L	0.050	02/22/23 17:22	
EPA 6020B	Arsenic	0.0047J	mg/L	0.0050	02/22/23 20:15	
EPA 6020B	Barium	0.051	mg/L	0.0050	02/22/23 20:15	
EPA 6020B	Beryllium	0.00037J	mg/L	0.00050	02/22/23 20:15	
EPA 6020B	Boron	0.015J	mg/L	0.040	02/22/23 20:15	
EPA 6020B	Cadmium	0.00020J	mg/L	0.00050	02/22/23 20:15	
EPA 6020B	Chromium	0.0020J	mg/L	0.0050	02/22/23 20:15	
EPA 6020B	Cobalt	0.00086J	mg/L	0.0050	02/22/23 20:15	
EPA 6020B	Lithium	0.0023J	mg/L	0.030	02/22/23 20:15	
EPA 6020B	Nickel	0.0028J	mg/L	0.0050	02/22/23 20:15	
EPA 6020B	Selenium	0.025	mg/L	0.0050	02/22/23 20:15	
SM 2540C-2015	Total Dissolved Solids	1400	mg/L	25.0	02/13/23 11:04	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	10.3	mg/L	5.0	02/15/23 21:19	
SM 2320B-2011	Alkalinity, Total as CaCO3	10.3	mg/L	5.0	02/15/23 21:19	
EPA 300.0 Rev 2.1 1993	Chloride	6.2	mg/L	1.0	02/10/23 14:33	
EPA 300.0 Rev 2.1 1993	Sulfate	922	mg/L	18.0	02/11/23 07:05	
92651415004	**YAT-GWC-3R**					
	Performed by	Client			03/03/23 09:59	
	Collected By	Mark Chest			03/03/23 09:59	
	Collected Date	02/08/23			03/03/23 09:59	
	Collected Time	11:30			03/03/23 09:59	
	pH	5.21	Std. Units		03/03/23 09:59	
EPA 6010D	Calcium	11.2	mg/L	1.0	02/22/23 20:05	
EPA 6010D	Potassium	0.30	mg/L	0.20	02/22/23 20:05	
EPA 6010D	Sodium	5.0	mg/L	1.0	02/22/23 20:05	
EPA 6010D	Magnesium	4.0	mg/L	0.050	02/22/23 20:05	
EPA 6020B	Barium	0.0089	mg/L	0.0050	02/22/23 20:27	
EPA 6020B	Beryllium	0.00033J	mg/L	0.00050	02/22/23 20:27	
EPA 6020B	Chromium	0.0017J	mg/L	0.0050	02/22/23 20:27	
EPA 6020B	Cobalt	0.00085J	mg/L	0.0050	02/22/23 20:27	
EPA 6020B	Selenium	0.0020J	mg/L	0.0050	02/22/23 20:27	
SM 2540C-2015	Total Dissolved Solids	101	mg/L	25.0	02/14/23 11:59	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	8.4	mg/L	5.0	02/17/23 12:32	
SM 2320B-2011	Alkalinity, Total as CaCO3	8.4	mg/L	5.0	02/17/23 12:32	
EPA 300.0 Rev 2.1 1993	Chloride	3.4	mg/L	1.0	02/14/23 02:26	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	02/14/23 02:26	
EPA 300.0 Rev 2.1 1993	Sulfate	43.3	mg/L	1.0	02/14/23 02:26	
92651415005	**YAT-GWC-4R**					
	Performed by	Client			03/03/23 09:59	
	Collected By	Mark Chest			03/03/23 09:59	
	Collected Date	02/08/23			03/03/23 09:59	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651415005	**YAT-GWC-4R**					
	Collected Time	13:23			03/03/23 09:59	
	pH	5.64	Std. Units		03/03/23 09:59	
EPA 6010D	Calcium	39.0	mg/L	1.0	02/22/23 20:10	
EPA 6010D	Potassium	1.4	mg/L	0.20	02/22/23 20:10	
EPA 6010D	Sodium	14.7	mg/L	1.0	02/22/23 20:10	
EPA 6010D	Magnesium	34.9	mg/L	0.050	02/22/23 20:10	
EPA 6020B	Barium	0.034	mg/L	0.0050	02/22/23 20:33	
EPA 6020B	Beryllium	0.00013J	mg/L	0.00050	02/22/23 20:33	
EPA 6020B	Boron	2.7	mg/L	0.040	02/22/23 20:33	
EPA 6020B	Chromium	0.0012J	mg/L	0.0050	02/22/23 20:33	
EPA 6020B	Cobalt	0.00060J	mg/L	0.0050	02/22/23 20:33	
EPA 6020B	Lithium	0.00098J	mg/L	0.030	02/22/23 20:33	
EPA 6020B	Selenium	0.0029J	mg/L	0.0050	02/22/23 20:33	
EPA 7470A	Mercury	0.00020J	mg/L	0.00020	02/24/23 11:34	
SM 2540C-2015	Total Dissolved Solids	718	mg/L	25.0	02/14/23 12:00	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	33.3	mg/L	5.0	02/17/23 12:38	
SM 2320B-2011	Alkalinity, Total as CaCO3	33.3	mg/L	5.0	02/17/23 12:38	
EPA 300.0 Rev 2.1 1993	Chloride	121	mg/L	3.0	02/14/23 15:24	
EPA 300.0 Rev 2.1 1993	Fluoride	0.050J	mg/L	0.10	02/14/23 02:40	
EPA 300.0 Rev 2.1 1993	Sulfate	87.8	mg/L	1.0	02/14/23 02:40	
92651415006	**YAT-GWC-2R**					
	Performed by	Client			03/03/23 10:00	
	Collected By	Mark Chest			03/03/23 10:00	
	Collected Date	02/08/23			03/03/23 10:00	
	Collected Time	14:55			03/03/23 10:00	
	pH	4.96	Std. Units		03/03/23 10:00	
EPA 6010D	Calcium	48.0	mg/L	1.0	02/22/23 20:15	
EPA 6010D	Potassium	2.3	mg/L	0.20	02/22/23 20:15	
EPA 6010D	Sodium	17.1	mg/L	1.0	02/22/23 20:15	
EPA 6010D	Magnesium	39.2	mg/L	0.050	02/22/23 20:15	
EPA 6020B	Barium	0.027	mg/L	0.0050	02/22/23 20:39	
EPA 6020B	Beryllium	0.00025J	mg/L	0.00050	02/22/23 20:39	
EPA 6020B	Boron	0.22	mg/L	0.040	02/22/23 20:39	
EPA 6020B	Cobalt	0.00052J	mg/L	0.0050	02/22/23 20:39	
EPA 6020B	Lithium	0.0038J	mg/L	0.030	02/22/23 20:39	
EPA 6020B	Selenium	0.0043J	mg/L	0.0050	02/22/23 20:39	
SM 2540C-2015	Total Dissolved Solids	540	mg/L	25.0	02/14/23 12:01	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	9.2	mg/L	5.0	02/17/23 12:55	
SM 2320B-2011	Alkalinity, Total as CaCO3	9.2	mg/L	5.0	02/17/23 12:55	
EPA 300.0 Rev 2.1 1993	Chloride	12.3	mg/L	1.0	02/14/23 02:55	
EPA 300.0 Rev 2.1 1993	Sulfate	288	mg/L	6.0	02/14/23 15:39	
92651415007	**YAT-GLF-EB-1**					
SM 2540C-2015	Total Dissolved Solids	34.0	mg/L	25.0	02/14/23 12:01	
92651415008	**YAT-GLF-FB-1**					
EPA 6020B	Chromium	0.0013J	mg/L	0.0050	02/22/23 21:03	

REPORT OF LABORATORY ANALYSIS

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

SUMMARY OF DETECTION

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651415009	**YAT-GLF-FD-1**					
EPA 6010D	Calcium	38.9	mg/L	1.0	02/22/23 20:29	
EPA 6010D	Potassium	1.3	mg/L	0.20	02/22/23 20:29	
EPA 6010D	Sodium	14.8	mg/L	1.0	02/22/23 20:29	
EPA 6010D	Magnesium	35.0	mg/L	0.050	02/22/23 20:29	
EPA 6020B	Barium	0.035	mg/L	0.0050	02/22/23 21:09	
EPA 6020B	Beryllium	0.00014J	mg/L	0.00050	02/22/23 21:09	
EPA 6020B	Boron	3.1	mg/L	0.20	02/23/23 14:45	
EPA 6020B	Chromium	0.0012J	mg/L	0.0050	02/22/23 21:09	
EPA 6020B	Cobalt	0.00059J	mg/L	0.0050	02/22/23 21:09	
EPA 6020B	Lithium	0.0010J	mg/L	0.030	02/22/23 21:09	
EPA 6020B	Selenium	0.0034J	mg/L	0.0050	02/22/23 21:09	
EPA 7470A	Mercury	0.00020	mg/L	0.00020	02/24/23 11:44	
SM 2540C-2015	Total Dissolved Solids	520	mg/L	25.0	02/14/23 12:02	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	39.6	mg/L	5.0	02/17/23 13:09	
SM 2320B-2011	Alkalinity, Total as CaCO3	39.6	mg/L	5.0	02/17/23 13:09	
EPA 300.0 Rev 2.1 1993	Chloride	123	mg/L	3.0	02/14/23 15:54	
EPA 300.0 Rev 2.1 1993	Sulfate	93.2	mg/L	1.0	02/14/23 04:10	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

Sample: YAT-GWC-6R **Lab ID: 92651415001** Collected: 02/07/23 13:30 Received: 02/08/23 09:06 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 09:54		
Collected By	**Mark Chest**				1		03/03/23 09:54		
Collected Date	**02/07/23**				1		03/03/23 09:54		
Collected Time	**13:30**				1		03/03/23 09:54		
pH	**4.81**	Std. Units			1		03/03/23 09:54		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**1.9**	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 17:12	7440-09-7	
Sodium	**9.0**	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 17:12	7440-23-5	
Calcium	**30.8**	mg/L	1.0	0.12	1	02/21/23 17:00	02/22/23 17:12	7440-70-2	
Magnesium	**23.4**	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 17:12	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	02/21/23 17:00	02/22/23 20:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/21/23 17:00	02/22/23 20:03	7440-38-2	
Barium	**0.032**	mg/L	0.0050	0.00067	1	02/21/23 17:00	02/22/23 20:03	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/21/23 17:00	02/22/23 20:03	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/21/23 17:00	02/22/23 20:03	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/21/23 17:00	02/22/23 20:03	7440-43-9	
Chromium	**0.0025J**	mg/L	0.0050	0.0011	1	02/21/23 17:00	02/22/23 20:03	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/21/23 17:00	02/22/23 20:03	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	02/21/23 17:00	02/22/23 20:03	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	02/21/23 17:00	02/22/23 20:03	7439-92-1	
Lithium	**0.0017J**	mg/L	0.030	0.00073	1	02/21/23 17:00	02/22/23 20:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/21/23 17:00	02/22/23 20:03	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	02/21/23 17:00	02/22/23 20:03	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	02/21/23 17:00	02/22/23 20:03	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/21/23 17:00	02/22/23 20:03	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	02/21/23 17:00	02/22/23 20:03	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	02/21/23 17:00	02/22/23 20:03	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	02/21/23 17:00	02/22/23 20:03	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 11:10	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**259**	mg/L	25.0	25.0	1		02/13/23 11:04		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

Sample: YAT-GWC-6R **Lab ID: 92651415001** Collected: 02/07/23 13:30 Received: 02/08/23 09:06 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**66.0**	mg/L	5.0	5.0	1		02/15/23 20:56		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 20:56		
Alkalinity, Total as CaCO3	**66.0**	mg/L	5.0	5.0	1		02/15/23 20:56		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.9**	mg/L	1.0	0.60	1		02/10/23 13:26	16887-00-6	
Fluoride	**0.070J**	mg/L	0.10	0.050	1		02/10/23 13:26	16984-48-8	
Sulfate	**110**	mg/L	2.0	1.0	2		02/11/23 06:00	14808-79-8	

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

Sample: YAT-GWC-5R **Lab ID: 92651415002** Collected: 02/07/23 16:10 Received: 02/08/23 09:06 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 09:55		
Collected By	**Mark Chest**				1		03/03/23 09:55		
Collected Date	**02/07/23**				1		03/03/23 09:55		
Collected Time	**16:10**				1		03/03/23 09:55		
pH	**4.62**	Std. Units			1		03/03/23 09:55		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**1.3**	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 17:17	7440-09-7	
Sodium	**11.5**	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 17:17	7440-23-5	
Calcium	**112**	mg/L	1.0	0.12	1	02/21/23 17:00	02/22/23 17:17	7440-70-2	
Magnesium	**160**	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 17:17	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	02/21/23 17:00	02/22/23 20:09	7440-36-0	
Arsenic	**0.0054**	mg/L	0.0050	0.0022	1	02/21/23 17:00	02/22/23 20:09	7440-38-2	
Barium	**0.011**	mg/L	0.0050	0.00067	1	02/21/23 17:00	02/22/23 20:09	7440-39-3	
Beryllium	**0.0025**	mg/L	0.00050	0.000054	1	02/21/23 17:00	02/22/23 20:09	7440-41-7	
Boron	**0.017J**	mg/L	0.040	0.0086	1	02/21/23 17:00	02/22/23 20:09	7440-42-8	
Cadmium	**0.0013**	mg/L	0.00050	0.00011	1	02/21/23 17:00	02/22/23 20:09	7440-43-9	
Chromium	**0.0028J**	mg/L	0.0050	0.0011	1	02/21/23 17:00	02/22/23 20:09	7440-47-3	
Cobalt	**0.00085J**	mg/L	0.0050	0.00039	1	02/21/23 17:00	02/22/23 20:09	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	02/21/23 17:00	02/22/23 20:09	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	02/21/23 17:00	02/22/23 20:09	7439-92-1	
Lithium	**0.0014J**	mg/L	0.030	0.00073	1	02/21/23 17:00	02/22/23 20:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/21/23 17:00	02/22/23 20:09	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	02/21/23 17:00	02/22/23 20:09	7440-02-0	
Selenium	**0.020**	mg/L	0.0050	0.0014	1	02/21/23 17:00	02/22/23 20:09	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/21/23 17:00	02/22/23 20:09	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	02/21/23 17:00	02/22/23 20:09	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	02/21/23 17:00	02/22/23 20:09	7440-62-2	
Zinc	**0.023**	mg/L	0.010	0.0070	1	02/21/23 17:00	02/22/23 20:09	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 11:21	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1370**	mg/L	25.0	25.0	1		02/13/23 11:04		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

Sample: YAT-GWC-5R **Lab ID: 92651415002** Collected: 02/07/23 16:10 Received: 02/08/23 09:06 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 21:03		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 21:03		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/15/23 21:03		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.1**	mg/L	1.0	0.60	1		02/10/23 14:16	16887-00-6	
Fluoride	**0.077J**	mg/L	0.10	0.050	1		02/10/23 14:16	16984-48-8	
Sulfate	**935**	mg/L	19.0	9.5	19		02/11/23 06:48	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

Sample: YAT-GWC-1R **Lab ID: 92651415003** Collected: 02/07/23 14:35 Received: 02/08/23 09:06 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 09:58		
Collected By	**Mark Chest**				1		03/03/23 09:58		
Collected Date	**02/07/23**				1		03/03/23 09:58		
Collected Time	**14:35**				1		03/03/23 09:58		
pH	**5.16**	Std. Units			1		03/03/23 09:58		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**2.7**	mg/L	0.20	0.15	1	02/21/23 17:00	02/22/23 17:22	7440-09-7	
Sodium	**7.0**	mg/L	1.0	0.58	1	02/21/23 17:00	02/22/23 17:22	7440-23-5	M1
Calcium	**179**	mg/L	1.0	0.12	1	02/21/23 17:00	02/22/23 17:22	7440-70-2	M1
Magnesium	**117**	mg/L	0.050	0.012	1	02/21/23 17:00	02/22/23 17:22	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	02/21/23 17:00	02/22/23 20:15	7440-36-0	
Arsenic	**0.0047J**	mg/L	0.0050	0.0022	1	02/21/23 17:00	02/22/23 20:15	7440-38-2	
Barium	**0.051**	mg/L	0.0050	0.00067	1	02/21/23 17:00	02/22/23 20:15	7440-39-3	
Beryllium	**0.00037J**	mg/L	0.00050	0.000054	1	02/21/23 17:00	02/22/23 20:15	7440-41-7	
Boron	**0.015J**	mg/L	0.040	0.0086	1	02/21/23 17:00	02/22/23 20:15	7440-42-8	
Cadmium	**0.00020J**	mg/L	0.00050	0.00011	1	02/21/23 17:00	02/22/23 20:15	7440-43-9	
Chromium	**0.0020J**	mg/L	0.0050	0.0011	1	02/21/23 17:00	02/22/23 20:15	7440-47-3	
Cobalt	**0.00086J**	mg/L	0.0050	0.00039	1	02/21/23 17:00	02/22/23 20:15	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	02/21/23 17:00	02/22/23 20:15	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	02/21/23 17:00	02/22/23 20:15	7439-92-1	
Lithium	**0.0023J**	mg/L	0.030	0.00073	1	02/21/23 17:00	02/22/23 20:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/21/23 17:00	02/22/23 20:15	7439-98-7	
Nickel	**0.0028J**	mg/L	0.0050	0.00071	1	02/21/23 17:00	02/22/23 20:15	7440-02-0	
Selenium	**0.025**	mg/L	0.0050	0.0014	1	02/21/23 17:00	02/22/23 20:15	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/21/23 17:00	02/22/23 20:15	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	02/21/23 17:00	02/22/23 20:15	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	02/21/23 17:00	02/22/23 20:15	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	02/21/23 17:00	02/22/23 20:15	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 11:23	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**1400**	mg/L	25.0	25.0	1		02/13/23 11:04		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

Sample: YAT-GWC-1R **Lab ID: 92651415003** Collected: 02/07/23 14:35 Received: 02/08/23 09:06 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**10.3**	mg/L	5.0	5.0	1		02/15/23 21:19		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 21:19		
Alkalinity, Total as CaCO3	**10.3**	mg/L	5.0	5.0	1		02/15/23 21:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.2**	mg/L	1.0	0.60	1		02/10/23 14:33	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/10/23 14:33	16984-48-8	
Sulfate	**922**	mg/L	18.0	9.0	18		02/11/23 07:05	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

Sample: YAT-GWC-3R **Lab ID: 92651415004** Collected: 02/08/23 11:30 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 09:59		
Collected By	**Mark Chest**				1		03/03/23 09:59		
Collected Date	**02/08/23**				1		03/03/23 09:59		
Collected Time	**11:30**				1		03/03/23 09:59		
pH	**5.21**	Std. Units			1		03/03/23 09:59		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**11.2**	mg/L	1.0	0.12	1	02/22/23 13:52	02/22/23 20:05	7440-70-2	
Potassium	**0.30**	mg/L	0.20	0.15	1	02/22/23 13:52	02/22/23 20:05	7440-09-7	
Sodium	**5.0**	mg/L	1.0	0.58	1	02/22/23 13:52	02/22/23 20:05	7440-23-5	
Magnesium	**4.0**	mg/L	0.050	0.012	1	02/22/23 13:52	02/22/23 20:05	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	02/21/23 17:00	02/22/23 20:27	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/21/23 17:00	02/22/23 20:27	7440-38-2	
Barium	**0.0089**	mg/L	0.0050	0.00067	1	02/21/23 17:00	02/22/23 20:27	7440-39-3	
Beryllium	**0.00033J**	mg/L	0.00050	0.000054	1	02/21/23 17:00	02/22/23 20:27	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/21/23 17:00	02/22/23 20:27	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/21/23 17:00	02/22/23 20:27	7440-43-9	
Chromium	**0.0017J**	mg/L	0.0050	0.0011	1	02/21/23 17:00	02/22/23 20:27	7440-47-3	
Cobalt	**0.00085J**	mg/L	0.0050	0.00039	1	02/21/23 17:00	02/22/23 20:27	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	02/21/23 17:00	02/22/23 20:27	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	02/21/23 17:00	02/22/23 20:27	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/21/23 17:00	02/22/23 20:27	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/21/23 17:00	02/22/23 20:27	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	02/21/23 17:00	02/22/23 20:27	7440-02-0	
Selenium	**0.0020J**	mg/L	0.0050	0.0014	1	02/21/23 17:00	02/22/23 20:27	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/21/23 17:00	02/22/23 20:27	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	02/21/23 17:00	02/22/23 20:27	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	02/21/23 17:00	02/22/23 20:27	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	02/21/23 17:00	02/22/23 20:27	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 11:26	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**101**	mg/L	25.0	25.0	1		02/14/23 11:59		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

Sample: YAT-GWC-3R **Lab ID: 92651415004** Collected: 02/08/23 11:30 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**8.4**	mg/L	5.0	5.0	1		02/17/23 12:32		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 12:32		
Alkalinity, Total as CaCO3	**8.4**	mg/L	5.0	5.0	1		02/17/23 12:32		
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		02/14/23 02:26	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		02/14/23 02:26	16984-48-8	
Sulfate	**43.3**	mg/L	1.0	0.50	1		02/14/23 02:26	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

Sample: YAT-GWC-4R **Lab ID: 92651415005** Collected: 02/08/23 13:23 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 09:59		
Collected By	**Mark Chest**				1		03/03/23 09:59		
Collected Date	**02/08/23**				1		03/03/23 09:59		
Collected Time	**13:23**				1		03/03/23 09:59		
pH	**5.64**	Std. Units			1		03/03/23 09:59		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**39.0**	mg/L	1.0	0.12	1	02/22/23 13:52	02/22/23 20:10	7440-70-2	
Potassium	**1.4**	mg/L	0.20	0.15	1	02/22/23 13:52	02/22/23 20:10	7440-09-7	
Sodium	**14.7**	mg/L	1.0	0.58	1	02/22/23 13:52	02/22/23 20:10	7440-23-5	
Magnesium	**34.9**	mg/L	0.050	0.012	1	02/22/23 13:52	02/22/23 20:10	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	02/21/23 17:00	02/22/23 20:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/21/23 17:00	02/22/23 20:33	7440-38-2	
Barium	**0.034**	mg/L	0.0050	0.00067	1	02/21/23 17:00	02/22/23 20:33	7440-39-3	
Beryllium	**0.00013J**	mg/L	0.00050	0.000054	1	02/21/23 17:00	02/22/23 20:33	7440-41-7	
Boron	**2.7**	mg/L	0.040	0.0086	1	02/21/23 17:00	02/22/23 20:33	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/21/23 17:00	02/22/23 20:33	7440-43-9	
Chromium	**0.0012J**	mg/L	0.0050	0.0011	1	02/21/23 17:00	02/22/23 20:33	7440-47-3	
Cobalt	**0.00060J**	mg/L	0.0050	0.00039	1	02/21/23 17:00	02/22/23 20:33	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	02/21/23 17:00	02/22/23 20:33	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	02/21/23 17:00	02/22/23 20:33	7439-92-1	
Lithium	**0.00098J**	mg/L	0.030	0.00073	1	02/21/23 17:00	02/22/23 20:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/21/23 17:00	02/22/23 20:33	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	02/21/23 17:00	02/22/23 20:33	7440-02-0	
Selenium	**0.0029J**	mg/L	0.0050	0.0014	1	02/21/23 17:00	02/22/23 20:33	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/21/23 17:00	02/22/23 20:33	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	02/21/23 17:00	02/22/23 20:33	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	02/21/23 17:00	02/22/23 20:33	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	02/21/23 17:00	02/22/23 20:33	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00020J**	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 11:34	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**718**	mg/L	25.0	25.0	1		02/14/23 12:00		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

Sample: YAT-GWC-4R **Lab ID: 92651415005** Collected: 02/08/23 13:23 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**33.3**	mg/L	5.0	5.0	1		02/17/23 12:38		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 12:38		
Alkalinity, Total as CaCO3	**33.3**	mg/L	5.0	5.0	1		02/17/23 12:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**121**	mg/L	3.0	1.8	3		02/14/23 15:24	16887-00-6	
Fluoride	**0.050J**	mg/L	0.10	0.050	1		02/14/23 02:40	16984-48-8	
Sulfate	**87.8**	mg/L	1.0	0.50	1		02/14/23 02:40	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

Sample: YAT-GWC-2R **Lab ID: 92651415006** Collected: 02/08/23 14:55 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 10:00		
Collected By	**Mark Chest**				1		03/03/23 10:00		
Collected Date	**02/08/23**				1		03/03/23 10:00		
Collected Time	**14:55**				1		03/03/23 10:00		
pH	**4.96**	Std. Units			1		03/03/23 10:00		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**48.0**	mg/L	1.0	0.12	1	02/22/23 13:52	02/22/23 20:15	7440-70-2	
Potassium	**2.3**	mg/L	0.20	0.15	1	02/22/23 13:52	02/22/23 20:15	7440-09-7	
Sodium	**17.1**	mg/L	1.0	0.58	1	02/22/23 13:52	02/22/23 20:15	7440-23-5	
Magnesium	**39.2**	mg/L	0.050	0.012	1	02/22/23 13:52	02/22/23 20:15	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	02/21/23 17:00	02/22/23 20:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/21/23 17:00	02/22/23 20:39	7440-38-2	
Barium	**0.027**	mg/L	0.0050	0.00067	1	02/21/23 17:00	02/22/23 20:39	7440-39-3	
Beryllium	**0.00025J**	mg/L	0.00050	0.000054	1	02/21/23 17:00	02/22/23 20:39	7440-41-7	
Boron	**0.22**	mg/L	0.040	0.0086	1	02/21/23 17:00	02/22/23 20:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/21/23 17:00	02/22/23 20:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/21/23 17:00	02/22/23 20:39	7440-47-3	
Cobalt	**0.00052J**	mg/L	0.0050	0.00039	1	02/21/23 17:00	02/22/23 20:39	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	02/21/23 17:00	02/22/23 20:39	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	02/21/23 17:00	02/22/23 20:39	7439-92-1	
Lithium	**0.0038J**	mg/L	0.030	0.00073	1	02/21/23 17:00	02/22/23 20:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/21/23 17:00	02/22/23 20:39	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	02/21/23 17:00	02/22/23 20:39	7440-02-0	
Selenium	**0.0043J**	mg/L	0.0050	0.0014	1	02/21/23 17:00	02/22/23 20:39	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/21/23 17:00	02/22/23 20:39	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	02/21/23 17:00	02/22/23 20:39	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	02/21/23 17:00	02/22/23 20:39	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	02/21/23 17:00	02/22/23 20:39	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	0.00013	1	02/24/23 07:00	02/24/23 11:36	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**540**	mg/L	25.0	25.0	1		02/14/23 12:01		

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

Sample: YAT-GWC-2R **Lab ID: 92651415006** Collected: 02/08/23 14:55 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**9.2**	mg/L	5.0	5.0	1		02/17/23 12:55		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 12:55		
Alkalinity, Total as CaCO3	**9.2**	mg/L	5.0	5.0	1		02/17/23 12:55		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**12.3**	mg/L	1.0	0.60	1		02/14/23 02:55	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/14/23 02:55	16984-48-8	
Sulfate	**288**	mg/L	6.0	3.0	6		02/14/23 15:39	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

Sample: YAT-GLF-EB-1 **Lab ID: 92651415007** Collected: 02/08/23 15:20 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	02/22/23 13:52	02/22/23 20:20	7440-70-2	
Potassium	ND	mg/L	0.20	0.15	1	02/22/23 13:52	02/22/23 20:20	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/22/23 13:52	02/22/23 20:20	7440-23-5	
Magnesium	ND	mg/L	0.050	0.012	1	02/22/23 13:52	02/22/23 20:20	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	02/21/23 17:00	02/22/23 20:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/21/23 17:00	02/22/23 20:57	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/21/23 17:00	02/22/23 20:57	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/21/23 17:00	02/22/23 20:57	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/21/23 17:00	02/23/23 14:33	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/21/23 17:00	02/22/23 20:57	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/21/23 17:00	02/22/23 20:57	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/21/23 17:00	02/22/23 20:57	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	02/21/23 17:00	02/22/23 20:57	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	02/21/23 17:00	02/22/23 20:57	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/21/23 17:00	02/22/23 20:57	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/21/23 17:00	02/22/23 20:57	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	02/21/23 17:00	02/22/23 20:57	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	02/21/23 17:00	02/22/23 20:57	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/21/23 17:00	02/22/23 20:57	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	02/21/23 17:00	02/22/23 20:57	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	02/21/23 17:00	02/22/23 20:57	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	02/21/23 17:00	02/22/23 20:57	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 11:39	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**34.0**	mg/L	25.0	25.0	1		02/14/23 12:01		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 13:01		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 13:01		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/17/23 13:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/14/23 03:10	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/14/23 03:10	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

Sample: YAT-GLF-EB-1 **Lab ID: 92651415007** Collected: 02/08/23 15:20 Received: 02/09/23 12:35 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	ND	mg/L	1.0	0.50	1		02/14/23 03:10	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

Sample: YAT-GLF-FB-1 **Lab ID: 92651415008** Collected: 02/08/23 11:35 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	02/22/23 13:52	02/22/23 20:25	7440-70-2	
Potassium	ND	mg/L	0.20	0.15	1	02/22/23 13:52	02/22/23 20:25	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/22/23 13:52	02/22/23 20:25	7440-23-5	
Magnesium	ND	mg/L	0.050	0.012	1	02/22/23 13:52	02/22/23 20:25	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	02/21/23 17:00	02/22/23 21:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/21/23 17:00	02/22/23 21:03	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/21/23 17:00	02/22/23 21:03	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/21/23 17:00	02/22/23 21:03	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/21/23 17:00	02/23/23 14:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/21/23 17:00	02/22/23 21:03	7440-43-9	
Chromium	**0.0013J**	mg/L	0.0050	0.0011	1	02/21/23 17:00	02/22/23 21:03	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/21/23 17:00	02/22/23 21:03	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	02/21/23 17:00	02/22/23 21:03	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	02/21/23 17:00	02/22/23 21:03	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/21/23 17:00	02/22/23 21:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/21/23 17:00	02/22/23 21:03	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	02/21/23 17:00	02/22/23 21:03	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	02/21/23 17:00	02/22/23 21:03	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/21/23 17:00	02/22/23 21:03	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	02/21/23 17:00	02/22/23 21:03	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	02/21/23 17:00	02/22/23 21:03	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	02/21/23 17:00	02/22/23 21:03	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 11:42	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/14/23 12:02		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 13:05		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 13:05		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/17/23 13:05		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/14/23 03:55	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/14/23 03:55	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

Sample: YAT-GLF-FB-1 **Lab ID: 92651415008** Collected: 02/08/23 11:35 Received: 02/09/23 12:35 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	ND	mg/L	1.0	0.50	1		02/14/23 03:55	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

Sample: YAT-GLF-FD-1 **Lab ID: 92651415009** Collected: 02/08/23 00:00 Received: 02/09/23 12:35 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	**38.9**	mg/L	1.0	0.12	1	02/22/23 13:52	02/22/23 20:29	7440-70-2	
Potassium	**1.3**	mg/L	0.20	0.15	1	02/22/23 13:52	02/22/23 20:29	7440-09-7	
Sodium	**14.8**	mg/L	1.0	0.58	1	02/22/23 13:52	02/22/23 20:29	7440-23-5	
Magnesium	**35.0**	mg/L	0.050	0.012	1	02/22/23 13:52	02/22/23 20:29	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	02/21/23 17:00	02/22/23 21:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/21/23 17:00	02/22/23 21:09	7440-38-2	
Barium	**0.035**	mg/L	0.0050	0.00067	1	02/21/23 17:00	02/22/23 21:09	7440-39-3	
Beryllium	**0.00014J**	mg/L	0.00050	0.000054	1	02/21/23 17:00	02/22/23 21:09	7440-41-7	
Boron	**3.1**	mg/L	0.20	0.043	5	02/21/23 17:00	02/23/23 14:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/21/23 17:00	02/22/23 21:09	7440-43-9	
Chromium	**0.0012J**	mg/L	0.0050	0.0011	1	02/21/23 17:00	02/22/23 21:09	7440-47-3	
Cobalt	**0.00059J**	mg/L	0.0050	0.00039	1	02/21/23 17:00	02/22/23 21:09	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	02/21/23 17:00	02/22/23 21:09	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	02/21/23 17:00	02/22/23 21:09	7439-92-1	
Lithium	**0.0010J**	mg/L	0.030	0.00073	1	02/21/23 17:00	02/22/23 21:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/21/23 17:00	02/22/23 21:09	7439-98-7	
Nickel	ND	mg/L	0.0050	0.00071	1	02/21/23 17:00	02/22/23 21:09	7440-02-0	
Selenium	**0.0034J**	mg/L	0.0050	0.0014	1	02/21/23 17:00	02/22/23 21:09	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/21/23 17:00	02/22/23 21:09	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	02/21/23 17:00	02/22/23 21:09	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	02/21/23 17:00	02/22/23 21:09	7440-62-2	
Zinc	ND	mg/L	0.010	0.0070	1	02/21/23 17:00	02/22/23 21:09	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00020**	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 11:44	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**520**	mg/L	25.0	25.0	1		02/14/23 12:02		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**39.6**	mg/L	5.0	5.0	1		02/17/23 13:09		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 13:09		
Alkalinity, Total as CaCO3	**39.6**	mg/L	5.0	5.0	1		02/17/23 13:09		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**123**	mg/L	3.0	1.8	3		02/14/23 15:54	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/14/23 04:10	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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

ANALYTICAL RESULTS

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

Sample: YAT-GLF-FD-1 **Lab ID: 92651415009** Collected: 02/08/23 00:00 Received: 02/09/23 12:35 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	**93.2**	mg/L	1.0	0.50	1		02/14/23 04:10	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

QC Batch: 757276
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651415001, 92651415002, 92651415003

METHOD BLANK: 3934070 Matrix: Water
Associated Lab Samples: 92651415001, 92651415002, 92651415003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/22/23 17:03	
Magnesium	mg/L	ND	0.050	0.012	02/22/23 17:03	
Potassium	mg/L	ND	0.20	0.15	02/22/23 17:03	
Sodium	mg/L	ND	1.0	0.58	02/22/23 17:03	

LABORATORY CONTROL SAMPLE: 3934071

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	
Magnesium	mg/L	1	1.0	101	80-120	
Potassium	mg/L	1	0.99	99	80-120	
Sodium	mg/L	1	0.98J	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3934072 3934073

Parameter	Units	92651415003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	179	1	1	187	190	757	1090	75-125	2	20	M1
Magnesium	mg/L	117	1	1	122	124	519	698	75-125	1	20	
Potassium	mg/L	2.7	1	1	3.9	3.9	115	115	75-125	0	20	
Sodium	mg/L	7.0	1	1	8.2	8.4	126	144	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.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

QC Batch: 757456
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651415004, 92651415005, 92651415006, 92651415007, 92651415008, 92651415009

METHOD BLANK: 3934803 Matrix: Water
Associated Lab Samples: 92651415004, 92651415005, 92651415006, 92651415007, 92651415008, 92651415009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/22/23 19:18	
Magnesium	mg/L	ND	0.050	0.012	02/22/23 19:18	
Potassium	mg/L	ND	0.20	0.15	02/22/23 19:18	
Sodium	mg/L	ND	1.0	0.58	02/22/23 19:18	

LABORATORY CONTROL SAMPLE: 3934804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.97J	97	80-120	
Magnesium	mg/L	1	0.98	98	80-120	
Potassium	mg/L	1	1.0	100	80-120	
Sodium	mg/L	1	0.94J	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3934805 3934806

Parameter	Units	92651576001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	11.9	1	1	13.1	13.1	126	119	75-125	0	20	M1
Magnesium	mg/L	10.7	1	1	12.0	11.9	125	118	75-125	1	20	
Potassium	mg/L	9.1	1	1	10.3	10.3	122	121	75-125	0	20	
Sodium	mg/L	14.9	1	1	16.2	16.1	135	123	75-125	1	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.

REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

QC Batch: 757280
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651415001, 92651415002, 92651415003, 92651415004, 92651415005, 92651415006, 92651415007, 92651415008, 92651415009

METHOD BLANK: 3934100 Matrix: Water
Associated Lab Samples: 92651415001, 92651415002, 92651415003, 92651415004, 92651415005, 92651415006, 92651415007, 92651415008, 92651415009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/22/23 18:34	
Arsenic	mg/L	ND	0.0050	0.0022	02/22/23 18:34	
Barium	mg/L	ND	0.0050	0.00067	02/22/23 18:34	
Beryllium	mg/L	ND	0.00050	0.000054	02/22/23 18:34	
Boron	mg/L	ND	0.040	0.0086	02/22/23 18:34	
Cadmium	mg/L	ND	0.00050	0.00011	02/22/23 18:34	
Chromium	mg/L	ND	0.0050	0.0011	02/22/23 18:34	
Cobalt	mg/L	ND	0.0050	0.00039	02/22/23 18:34	
Copper	mg/L	ND	0.0050	0.0010	02/22/23 18:34	
Lead	mg/L	ND	0.0010	0.00089	02/22/23 18:34	
Lithium	mg/L	ND	0.030	0.00073	02/22/23 18:34	
Molybdenum	mg/L	ND	0.010	0.00074	02/22/23 18:34	
Nickel	mg/L	ND	0.0050	0.00071	02/22/23 18:34	
Selenium	mg/L	ND	0.0050	0.0014	02/22/23 18:34	
Silver	mg/L	ND	0.0050	0.00044	02/22/23 18:34	
Thallium	mg/L	ND	0.0010	0.00018	02/22/23 18:34	
Vanadium	mg/L	ND	0.010	0.0019	02/22/23 18:34	
Zinc	mg/L	ND	0.010	0.0070	02/22/23 18:34	

LABORATORY CONTROL SAMPLE: 3934101

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	108	80-120	
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.10	103	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Copper	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Nickel	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	
Silver	mg/L	0.1	0.10	102	80-120	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

LABORATORY CONTROL SAMPLE: 3934101

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Thallium	mg/L	0.1	0.10	100	80-120	
Vanadium	mg/L	0.1	0.10	101	80-120	
Zinc	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3934102 3934103

Parameter	Units	92650184005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	109	109	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	102	104	75-125	2	20	
Barium	mg/L	0.024	0.1	0.1	0.13	0.13	104	104	75-125	0	20	
Beryllium	mg/L	0.00098	0.1	0.1	0.093	0.094	92	93	75-125	2	20	
Boron	mg/L	1.9	1	1	2.8	2.8	91	93	75-125	1	20	
Cadmium	mg/L	0.00093	0.1	0.1	0.10	0.11	100	104	75-125	4	20	
Chromium	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20	
Cobalt	mg/L	0.0043J	0.1	0.1	0.10	0.10	97	98	75-125	1	20	
Copper	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.096	0.099	96	99	75-125	3	20	
Lithium	mg/L	0.0041J	0.1	0.1	0.10	0.10	98	99	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Nickel	mg/L	0.0051	0.1	0.1	0.10	0.10	98	99	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.11	103	107	75-125	4	20	
Silver	mg/L	ND	0.1	0.1	0.096	0.098	96	98	75-125	3	20	
Thallium	mg/L	ND	0.1	0.1	0.097	0.10	97	100	75-125	3	20	
Vanadium	mg/L	ND	0.1	0.1	0.099	0.10	99	100	75-125	1	20	
Zinc	mg/L	0.0070J	0.1	0.1	0.10	0.11	97	100	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

QC Batch: 757772
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651415001, 92651415002, 92651415003, 92651415004, 92651415005, 92651415006, 92651415007, 92651415008, 92651415009

METHOD BLANK: 3936482 Matrix: Water
Associated Lab Samples: 92651415001, 92651415002, 92651415003, 92651415004, 92651415005, 92651415006, 92651415007, 92651415008, 92651415009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/24/23 11:05	

LABORATORY CONTROL SAMPLE: 3936483

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3936484 3936485

Parameter	Units	92651415001 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	0.0021	0.0021	83	84	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

QC Batch: 755432
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651415001, 92651415002, 92651415003

METHOD BLANK: 3924925 Matrix: Water
Associated Lab Samples: 92651415001, 92651415002, 92651415003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/13/23 11:02	

LABORATORY CONTROL SAMPLE: 3924926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	389	97	80-120	

SAMPLE DUPLICATE: 3924927

Parameter	Units	92651382008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	78.0	72.0	8	10	

SAMPLE DUPLICATE: 3924928

Parameter	Units	92650182022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	489	496	1	10	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

QC Batch: 755730 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651415004, 92651415005, 92651415006, 92651415007, 92651415008, 92651415009

METHOD BLANK: 3926329 Matrix: Water
Associated Lab Samples: 92651415004, 92651415005, 92651415006, 92651415007, 92651415008, 92651415009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/14/23 11:56	

LABORATORY CONTROL SAMPLE: 3926330

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	396	99	80-120	

SAMPLE DUPLICATE: 3926331

Parameter	Units	92651580013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	190	203	7	10	

SAMPLE DUPLICATE: 3926332

Parameter	Units	92651382012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	141	138	2	10	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

QC Batch: 755797
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92651415001, 92651415002, 92651415003

METHOD BLANK: 3926737 Matrix: Water
Associated Lab Samples: 92651415001, 92651415002, 92651415003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/15/23 18:18	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/15/23 18:18	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/15/23 18:18	

LABORATORY CONTROL SAMPLE: 3926738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.3	101	80-120	

LABORATORY CONTROL SAMPLE: 3926739

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.9	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926740 3926741

Parameter	Units	92651415002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	53.5	53.8	102	102	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926742 3926743

Parameter	Units	92651415003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	10.3	50	50	62.8	63.4	105	106	80-120	1	25	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

QC Batch: 756119
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92651415004, 92651415005, 92651415006, 92651415007, 92651415008, 92651415009

METHOD BLANK: 3928501 Matrix: Water
Associated Lab Samples: 92651415004, 92651415005, 92651415006, 92651415007, 92651415008, 92651415009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/17/23 11:43	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 11:43	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 11:43	

LABORATORY CONTROL SAMPLE: 3928502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.5	101	80-120	

LABORATORY CONTROL SAMPLE: 3928503

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3928504 3928505

Parameter	Units	92651771001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	219	50	50	262	271	86	104	80-120	3	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3928506 3928507

Parameter	Units	92651771002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	242	50	50	287	284	90	83	80-120	1	25	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

QC Batch: 755106
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92651415001, 92651415002, 92651415003

METHOD BLANK: 3923327 Matrix: Water
Associated Lab Samples: 92651415001, 92651415002, 92651415003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/10/23 12:53	
Fluoride	mg/L	ND	0.10	0.050	02/10/23 12:53	
Sulfate	mg/L	ND	1.0	0.50	02/10/23 12:53	

LABORATORY CONTROL SAMPLE: 3923328

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.8	104	90-110	
Fluoride	mg/L	2.5	2.7	109	90-110	
Sulfate	mg/L	50	52.8	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3923329 3923330

Parameter	Units	92651415001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	7.9	50	50	58.6	58.5	101	101	90-110	0	10	
Fluoride	mg/L	0.070J	2.5	2.5	2.5	2.5	98	98	90-110	0	10	
Sulfate	mg/L	110	50	50	158	158	96	96	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3923331 3923332

Parameter	Units	92651103002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	99.4	50	50	144	147	90	95	90-110	2	10	
Fluoride	mg/L	7.0	2.5	2.5	9.0	9.2	82	87	90-110	1	10	M1
Sulfate	mg/L	16.3	50	50	68.3	70.6	104	109	90-110	3	10	

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REPORT OF LABORATORY ANALYSIS

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

QUALITY CONTROL DATA

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

QC Batch: 755595
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92651415004, 92651415005, 92651415006, 92651415007, 92651415008, 92651415009

METHOD BLANK: 3925880 Matrix: Water
Associated Lab Samples: 92651415004, 92651415005, 92651415006, 92651415007, 92651415008, 92651415009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/13/23 22:52	
Fluoride	mg/L	ND	0.10	0.050	02/13/23 22:52	
Sulfate	mg/L	ND	1.0	0.50	02/13/23 22:52	

LABORATORY CONTROL SAMPLE: 3925881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.1	102	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925882 3925883

Parameter	Units	92651580015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.8	50	50	53.5	56.1	99	105	90-110	5	10	
Fluoride	mg/L	0.050J	2.5	2.5	3.0	3.0	117	117	90-110	0	10	M1
Sulfate	mg/L	368	50	50	417	420	99	104	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925884 3925885

Parameter	Units	92651415007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	51.3	52.7	103	105	90-110	3	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	106	107	90-110	1	10	
Sulfate	mg/L	ND	50	50	51.3	53.3	102	106	90-110	4	10	

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REPORT OF LABORATORY ANALYSIS

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

QUALIFIERS

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651415001	**YAT-GWC-6R**				
92651415002	**YAT-GWC-5R**				
92651415003	**YAT-GWC-1R**				
92651415004	**YAT-GWC-3R**				
92651415005	**YAT-GWC-4R**				
92651415006	**YAT-GWC-2R**				
92651415001	**YAT-GWC-6R**	EPA 3010A	757276	EPA 6010D	757302
92651415002	**YAT-GWC-5R**	EPA 3010A	757276	EPA 6010D	757302
92651415003	**YAT-GWC-1R**	EPA 3010A	757276	EPA 6010D	757302
92651415004	**YAT-GWC-3R**	EPA 3010A	757456	EPA 6010D	757555
92651415005	**YAT-GWC-4R**	EPA 3010A	757456	EPA 6010D	757555
92651415006	**YAT-GWC-2R**	EPA 3010A	757456	EPA 6010D	757555
92651415007	**YAT-GLF-EB-1**	EPA 3010A	757456	EPA 6010D	757555
92651415008	**YAT-GLF-FB-1**	EPA 3010A	757456	EPA 6010D	757555
92651415009	**YAT-GLF-FD-1**	EPA 3010A	757456	EPA 6010D	757555
92651415001	**YAT-GWC-6R**	EPA 3005A	757280	EPA 6020B	757303
92651415002	**YAT-GWC-5R**	EPA 3005A	757280	EPA 6020B	757303
92651415003	**YAT-GWC-1R**	EPA 3005A	757280	EPA 6020B	757303
92651415004	**YAT-GWC-3R**	EPA 3005A	757280	EPA 6020B	757303
92651415005	**YAT-GWC-4R**	EPA 3005A	757280	EPA 6020B	757303
92651415006	**YAT-GWC-2R**	EPA 3005A	757280	EPA 6020B	757303
92651415007	**YAT-GLF-EB-1**	EPA 3005A	757280	EPA 6020B	757303
92651415008	**YAT-GLF-FB-1**	EPA 3005A	757280	EPA 6020B	757303
92651415009	**YAT-GLF-FD-1**	EPA 3005A	757280	EPA 6020B	757303
92651415001	**YAT-GWC-6R**	EPA 7470A	757772	EPA 7470A	757938
92651415002	**YAT-GWC-5R**	EPA 7470A	757772	EPA 7470A	757938
92651415003	**YAT-GWC-1R**	EPA 7470A	757772	EPA 7470A	757938
92651415004	**YAT-GWC-3R**	EPA 7470A	757772	EPA 7470A	757938
92651415005	**YAT-GWC-4R**	EPA 7470A	757772	EPA 7470A	757938
92651415006	**YAT-GWC-2R**	EPA 7470A	757772	EPA 7470A	757938
92651415007	**YAT-GLF-EB-1**	EPA 7470A	757772	EPA 7470A	757938
92651415008	**YAT-GLF-FB-1**	EPA 7470A	757772	EPA 7470A	757938
92651415009	**YAT-GLF-FD-1**	EPA 7470A	757772	EPA 7470A	757938
92651415001	**YAT-GWC-6R**	SM 2540C-2015	755432		
92651415002	**YAT-GWC-5R**	SM 2540C-2015	755432		
92651415003	**YAT-GWC-1R**	SM 2540C-2015	755432		
92651415004	**YAT-GWC-3R**	SM 2540C-2015	755730		
92651415005	**YAT-GWC-4R**	SM 2540C-2015	755730		
92651415006	**YAT-GWC-2R**	SM 2540C-2015	755730		
92651415007	**YAT-GLF-EB-1**	SM 2540C-2015	755730		
92651415008	**YAT-GLF-FB-1**	SM 2540C-2015	755730		
92651415009	**YAT-GLF-FD-1**	SM 2540C-2015	755730		
92651415001	**YAT-GWC-6R**	SM 2320B-2011	755797		
92651415002	**YAT-GWC-5R**	SM 2320B-2011	755797		
92651415003	**YAT-GWC-1R**	SM 2320B-2011	755797		

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

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Gypsum LF
Pace Project No.: 92651415

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651415004	**YAT-GWC-3R**	SM 2320B-2011	756119		
92651415005	**YAT-GWC-4R**	SM 2320B-2011	756119		
92651415006	**YAT-GWC-2R**	SM 2320B-2011	756119		
92651415007	**YAT-GLF-EB-1**	SM 2320B-2011	756119		
92651415008	**YAT-GLF-FB-1**	SM 2320B-2011	756119		
92651415009	**YAT-GLF-FD-1**	SM 2320B-2011	756119		
92651415001	**YAT-GWC-6R**	EPA 300.0 Rev 2.1 1993	755106		
92651415002	**YAT-GWC-5R**	EPA 300.0 Rev 2.1 1993	755106		
92651415003	**YAT-GWC-1R**	EPA 300.0 Rev 2.1 1993	755106		
92651415004	**YAT-GWC-3R**	EPA 300.0 Rev 2.1 1993	755595		
92651415005	**YAT-GWC-4R**	EPA 300.0 Rev 2.1 1993	755595		
92651415006	**YAT-GWC-2R**	EPA 300.0 Rev 2.1 1993	755595		
92651415007	**YAT-GLF-EB-1**	EPA 300.0 Rev 2.1 1993	755595		
92651415008	**YAT-GLF-FB-1**	EPA 300.0 Rev 2.1 1993	755595		
92651415009	**YAT-GLF-FD-1**	EPA 300.0 Rev 2.1 1993	755595		

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

aboratory receiving samples:

Asheville ☐ **Eden** ☐ **Greenwood** ☐ **Huntersville** ☐ **Raleigh** ☐ **Mechanicsville** ☐ **Atlanta** ☑ **Kernersville** ☐

Sample Condition Upon Receipt

Client Name: G-P Power

Project #: **WO# : 92651415**

92651415

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

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

Date/Initials Person Examining Contents: 2/8/23 DM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.7 **Correction Factor:** Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 4.8

Temp should be above freezing to 6°C

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

USDA Regulated Soil (☐ N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 60614

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

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

*Bottom half of box is to list number of bottles

**Check all unpreserved Nitrates for chlorine

Project #

WO# : 92651415

PM: BV Due Date: 02/22/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9M-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																		2				
2		2	1			1																		2				
3		2	1			1																		2				
4																												
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12																												

pH Adjustment Log for Preserved Samples

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

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

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mec

WO#: 92651415
PM: BV Due Date: 02/22/23
CLIENT: GA-GA Power

Sample Condition Upon Receipt

Client Name: GA Power Project #:

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

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

Date/Initials Person Examining Contents: 2/9/23 CA

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.1 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): 2.2

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

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

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

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

***Check all unpreserved Nitrates for chlorine

Project # WO#: 92651415

PM: BV Due Date: 02/22/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			2				
2		2	1			1																			2				
3		2	1			1																			2				
4		2	1			1																			2				
5		2	1			1																			2				
6		2	1			1																			2				
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A
Required Client Information:

Company: GA Power
Address: Atlanta, GA
Email To: laucoker@southernco.com
Phone: 470.620.6176 Fax:
Requested Due Date: Standard TAT

Section B
Required Project Information:

Report To: SCS Contacts
Copy To: Arcadis Contacts
Task No: YAT-CCR-ASSMT-202361
Purchase Order #:
Project Name: Plant Yates Gypsum Landfill
Project Number:

Section C
Invoice Information:

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

Regulatory Agency:
State / Location: Georgia

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

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

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	Analyses Test	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651415
1	YAT-GWC-6R	WG	G	2/7/23	1330	-	-		6	3		3							X	X	X	X	X	X		pH: 4.31 GW
2	YAT-GWC-5R	WG	G	2/7/23	1610	-	-		6	3		3							X	X	X	X	X	X		pH: 4.62 GW
3	YAT-GWC-1R	WG	G	2/7/23	1455	-	-		6	3		3							X	X	X	X	X	X		pH: 6.66 GW
4	YAT-GWC-3R	WG	G			-	-		6	3		3							X	X	X	X	X	X		pH:
5	YAT-GWC-4R	WG	G			-	-		6	3		3							X	X	X	X	X	X		pH:
6	YAT-GWC-2R	WG	G			-	-		6	3		3							X	X	X	X	X	X		pH:
7	YAT-GLF-EB-1	WG	G			-	-		6	3		3							X	X	X	X	X	X		pH:
8	YAT-GLF-FB-1	WG	G			-	-		6	3		3							X	X	X	X	X	X		pH:
9	YAT-GLF-FD-1	WG	G			-	-		6	3		3							X	X	X	X	X	X		pH:
10						-	-																			pH:
11						-	-																			
12						-	-																			

ADDITIONAL COMMENTS

Anions Suite 300.0 (Cl, F, Sulfate)
App III Metals: Boron 6020B, Ca 6010D;
App I/II 6020B: Zn, Ag, Ni, V
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)
7040A: Mercury (Hg). Also add Ca, Na, K for this event.
Alkalinity - report total, carbonate, and bicarbonate

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Mark Chest /Arcadis	2/9/23	0800	Ryan Williams / Pace	2/9/23	0906
Ryan Williams / Pace	2/9/23	1240			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) - Mark Chest
SIGNATURE of SAMPLER: (Arcadis) -
DATE Signed: 2/8/23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 Of 1

Section A
Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucuker@southernco.com
Phone:	470.620.6176 Fax:
Requested Due Date:	Standard TAT

Section B
Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-202381
Purchase Order #:	
Project Name:	Plant Yates Gypsum Landfill
Project Number:	

Section C
Invoice Information:

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

Regulatory Agency

State / Location: Georgia

92651415

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

SAMPLE ID: One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

ITEM #	SAMPLE ID	MATRIX CODE	SAMPLE TYPE (G=GRAB C=COMP)	Start Date	Start Time	End Date	End Time	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)
1	YAT-GWC-6R	WG	G			-	-		6	3		3						X	X	X	X	X	X	
2	YAT-GWC-5R	WG	G			-	-		6	3		3						X	X	X	X	X	X	
3	YAT-GWC-1R	WG	G			-	-		6	3		3						X	X	X	X	X	X	
4	YAT-GWC-3R	WG	G	2/8/23	1130	-	-		6	3		3						X	X	X	X	X	X	
5	YAT-GWC-4R	WG	G	2/7/23	1323	-	-		6	3		3						X	X	X	X	X	X	
6	YAT-GWC-2R	WG	G	2/9/23	1153	-	-		6	3		3						X	X	X	X	X	X	
7	YAT-GLF-EB-1	WG	G	2/9/23	1520	-	-		6	3		3						X	X	X	X	X	X	
8	YAT-GLF-FB-1	WG	G	2/8/23	1135	-	-		6	3		3						X	X	X	X	X	X	
9	YAT-GLF-FD-1	WG	G	2/8/23	—	-	-		6	3		3						X	X	X	X	X	X	
10						-	-																	
11						-	-																	
12						-	-																	

pH entries (as written):
pH:
pH:
pH:
pH: 5.21 004
pH: 5.64 050
pH: 4.94 [illegible]
pH: - 057
pH: - 058
pH: - 059

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate) App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	[signature] /Arcadis	2/9/23	0920	Ryan William / Pace	2/9/23	0920	
	Ryan William / Pace	2/9/23	1235	[signature]	2/9/23	1235	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) - Mark Chest

SIGNATURE of SAMPLER: (Arcadis) - [signature] DATE Signed: 2/9/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

March 23, 2023

Ms. Lauren Petty
Southern Company
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: Plant Yates Gypsum LF RADS
Pace Project No.: 92651423

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 08, 2023 and February 09, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Noelia Gangi, Georgia Power
Geoffrey Gay, ARCADIS - Atlanta
Ben Hodges, Georgia Power-CCR
Kristen Jurinko
Laura Midkiff, Georgia Power
Alex Simpson, Arcadis
Michael Smilley, Georgia Power
Becky Steever, Arcadis
Tina Sullivan, ERM
Jessica Ware, ARCADIS - Atlanta
Albert Zumbuhl, Arcadis

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Yates Gypsum LF RADS
Pace Project No.: 92651423

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: Plant Yates Gypsum LF RADS
Pace Project No.: 92651423

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92651423001	**YAT-GWC-6R**	Water	02/07/23 13:30	02/08/23 09:00
92651423002	**YAT-GWC-5R**	Water	02/07/23 16:10	02/08/23 09:00
92651423003	**YAT-GWC-1R**	Water	02/07/23 14:35	02/08/23 09:00
92651423004	**YAT-GWC-3R**	Water	02/08/23 11:30	02/09/23 12:35
92651423005	**YAT-GWC-4R**	Water	02/08/23 13:23	02/09/23 12:35
92651423006	**YAT-GWC-2R**	Water	02/08/23 14:55	02/09/23 12:35
92651423007	**YAT-GLF-EB-1**	Water	02/08/23 15:20	02/09/23 12:35
92651423008	**YAT-GLF-FB-1**	Water	02/08/23 11:35	02/09/23 12:35
92651423009	**YAT-GLF-FD-1**	Water	02/08/23 00:00	02/09/23 12:35

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SAMPLE ANALYTE COUNT

Project: Plant Yates Gypsum LF RADS
Pace Project No.: 92651423

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92651423001	**YAT-GWC-6R**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651423002	**YAT-GWC-5R**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651423003	**YAT-GWC-1R**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651423004	**YAT-GWC-3R**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651423005	**YAT-GWC-4R**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651423006	**YAT-GWC-2R**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651423007	**YAT-GLF-EB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651423008	**YAT-GLF-FB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651423009	**YAT-GLF-FD-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JGH	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: Plant Yates Gypsum LF RADS
Pace Project No.: 92651423

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651423001	**YAT-GWC-6R**					
EPA 9315	Radium-226	0.0114 ± 0.0946 (0.256) C:92% T:NA	pCi/L		02/20/23 08:57	
EPA 9320	Radium-228	0.709 ± 0.418 (0.784) C:92% T:89%	pCi/L		02/20/23 15:17	
Total Radium Calculation	Total Radium	0.720 ± 0.513 (1.04)	pCi/L		03/21/23 16:16	
92651423002	**YAT-GWC-5R**					
EPA 9315	Radium-226	0.0231 ± 0.0927 (0.242) C:91% T:NA	pCi/L		02/20/23 08:58	
EPA 9320	Radium-228	0.848 ± 0.402 (0.695) C:94% T:92%	pCi/L		02/20/23 15:17	
Total Radium Calculation	Total Radium	0.871 ± 0.495 (0.937)	pCi/L		03/21/23 16:16	
92651423003	**YAT-GWC-1R**					
EPA 9315	Radium-226	0.166 ± 0.156 (0.293) C:89% T:NA	pCi/L		02/20/23 08:58	
EPA 9320	Radium-228	1.000 ± 0.417 (0.673) C:90% T:94%	pCi/L		02/20/23 15:17	
Total Radium Calculation	Total Radium	1.17 ± 0.573 (0.966)	pCi/L		03/21/23 16:16	
92651423004	**YAT-GWC-3R**					
EPA 9315	Radium-226	0.0452 ± 0.103 (0.245) C:80% T:NA	pCi/L		03/06/23 11:17	
EPA 9320	Radium-228	-0.00524 ± 0.290 (0.686) C:77% T:81%	pCi/L		03/01/23 16:06	
Total Radium Calculation	Total Radium	0.0452 ± 0.393 (0.931)	pCi/L		03/06/23 16:18	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates Gypsum LF RADS
Pace Project No.: 92651423

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651423005	**YAT-GWC-4R**					
EPA 9315	Radium-226	0.180 ± 0.132 (0.217) C:80% T:NA	pCi/L		03/06/23 11:17	
EPA 9320	Radium-228	0.273 ± 0.343 (0.728) C:80% T:85%	pCi/L		03/01/23 16:06	
Total Radium Calculation	Total Radium	0.453 ± 0.475 (0.945)	pCi/L		03/06/23 16:18	
92651423006	**YAT-GWC-2R**					
EPA 9315	Radium-226	0.243 ± 0.139 (0.191) C:88% T:NA	pCi/L		03/06/23 11:17	
EPA 9320	Radium-228	0.210 ± 0.300 (0.643) C:76% T:90%	pCi/L		03/01/23 16:07	
Total Radium Calculation	Total Radium	0.453 ± 0.439 (0.834)	pCi/L		03/06/23 16:18	
92651423007	**YAT-GLF-EB-1**					
EPA 9315	Radium-226	0.00814 ± 0.101 (0.265) C:84% T:NA	pCi/L		03/06/23 11:17	
EPA 9320	Radium-228	-0.248 ± 0.245 (0.651) C:77% T:83%	pCi/L		03/01/23 16:07	
Total Radium Calculation	Total Radium	0.00814 ± 0.346 (0.916)	pCi/L		03/06/23 16:18	
92651423008	**YAT-GLF-FB-1**					
EPA 9315	Radium-226	-0.0577 ± 0.0585 (0.230) C:83% T:NA	pCi/L		03/06/23 11:17	
EPA 9320	Radium-228	0.106 ± 0.282 (0.636) C:78% T:82%	pCi/L		03/01/23 16:07	
Total Radium Calculation	Total Radium	0.106 ± 0.341 (0.866)	pCi/L		03/06/23 16:18	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates Gypsum LF RADS
Pace Project No.: 92651423

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651423009	**YAT-GLF-FD-1**					
EPA 9315	Radium-226	0.124 ± 0.115 (0.213) C:86% T:NA	pCi/L		03/06/23 11:17	
EPA 9320	Radium-228	-0.0541 ± 0.269 (0.647) C:86% T:75%	pCi/L		03/06/23 12:12	
Total Radium Calculation	Total Radium	0.124 ± 0.384 (0.860)	pCi/L		03/06/23 16:18	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RADS
Pace Project No.: 92651423

Sample: YAT-GWC-6R **Lab ID: 92651423001** Collected: 02/07/23 13:30 Received: 02/08/23 09:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0114 ± 0.0946 (0.256) C:92% T:NA**	pCi/L	02/20/23 08:57	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.709 ± 0.418 (0.784) C:92% T:89%**	pCi/L	02/20/23 15:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.720 ± 0.513 (1.04)**	pCi/L	03/21/23 16:16	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RADS
Pace Project No.: 92651423

Sample: YAT-GWC-5R **Lab ID: 92651423002** Collected: 02/07/23 16:10 Received: 02/08/23 09:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0231 ± 0.0927 (0.242) C:91% T:NA**	pCi/L	02/20/23 08:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.848 ± 0.402 (0.695) C:94% T:92%**	pCi/L	02/20/23 15:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.871 ± 0.495 (0.937)**	pCi/L	03/21/23 16:16	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RADS
Pace Project No.: 92651423

Sample: YAT-GWC-1R **Lab ID: 92651423003** Collected: 02/07/23 14:35 Received: 02/08/23 09:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.166 ± 0.156 (0.293) C:89% T:NA**	pCi/L	02/20/23 08:58	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.000 ± 0.417 (0.673) C:90% T:94%**	pCi/L	02/20/23 15:17	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.17 ± 0.573 (0.966)**	pCi/L	03/21/23 16:16	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RADS
Pace Project No.: 92651423

Sample: YAT-GWC-3R **Lab ID: 92651423004** Collected: 02/08/23 11:30 Received: 02/09/23 12:35 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	**0.0452 ± 0.103 (0.245) C:80% T:NA**	pCi/L	03/06/23 11:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.00524 ± 0.290 (0.686) C:77% T:81%**	pCi/L	03/01/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0452 ± 0.393 (0.931)**	pCi/L	03/06/23 16:18	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RADS
Pace Project No.: 92651423

Sample: YAT-GWC-4R **Lab ID: 92651423005** Collected: 02/08/23 13:23 Received: 02/09/23 12:35 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	**0.180 ± 0.132 (0.217) C:80% T:NA**	pCi/L	03/06/23 11:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.273 ± 0.343 (0.728) C:80% T:85%**	pCi/L	03/01/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.453 ± 0.475 (0.945)**	pCi/L	03/06/23 16:18	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RADS
Pace Project No.: 92651423

Sample: YAT-GWC-2R **Lab ID: 92651423006** Collected: 02/08/23 14:55 Received: 02/09/23 12:35 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	**0.243 ± 0.139 (0.191) C:88% T:NA**	pCi/L	03/06/23 11:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.210 ± 0.300 (0.643) C:76% T:90%**	pCi/L	03/01/23 16:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.453 ± 0.439 (0.834)**	pCi/L	03/06/23 16:18	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RADS
Pace Project No.: 92651423

Sample: YAT-GLF-EB-1 **Lab ID: 92651423007** Collected: 02/08/23 15:20 Received: 02/09/23 12:35 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	**0.00814 ± 0.101 (0.265) C:84% T:NA**	pCi/L	03/06/23 11:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.248 ± 0.245 (0.651) C:77% T:83%**	pCi/L	03/01/23 16:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.00814 ± 0.346 (0.916)**	pCi/L	03/06/23 16:18	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RADS
Pace Project No.: 92651423

Sample: YAT-GLF-FB-1 **Lab ID: 92651423008** Collected: 02/08/23 11:35 Received: 02/09/23 12:35 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	**-0.0577 ± 0.0585 (0.230) C:83% T:NA**	pCi/L	03/06/23 11:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.106 ± 0.282 (0.636) C:78% T:82%**	pCi/L	03/01/23 16:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.106 ± 0.341 (0.866)**	pCi/L	03/06/23 16:18	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RADS
Pace Project No.: 92651423

Sample: YAT-GLF-FD-1 **Lab ID: 92651423009** Collected: 02/08/23 00:00 Received: 02/09/23 12:35 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	**0.124 ± 0.115 (0.213) C:86% T:NA**	pCi/L	03/06/23 11:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0541 ± 0.269 (0.647) C:86% T:75%**	pCi/L	03/06/23 12:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.124 ± 0.384 (0.860)**	pCi/L	03/06/23 16:18	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RADS
Pace Project No.: 92651423

QC Batch: 567003
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92651423001, 92651423002, 92651423003

METHOD BLANK: 2753256 Matrix: Water
Associated Lab Samples: 92651423001, 92651423002, 92651423003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0414 ± 0.0994 (0.240) C:92% T:NA	pCi/L	02/20/23 10:18	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RADS
Pace Project No.: 92651423

QC Batch: 567132
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92651423004, 92651423005, 92651423006, 92651423007, 92651423008, 92651423009

METHOD BLANK: 2754458 Matrix: Water
Associated Lab Samples: 92651423004, 92651423005, 92651423006, 92651423007, 92651423008, 92651423009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0411 ± 0.0925 (0.219) C:93% T:NA	pCi/L	03/06/23 08:52	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RADS
Pace Project No.: 92651423

QC Batch: 567134
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92651423004, 92651423005, 92651423006, 92651423007, 92651423008, 92651423009

METHOD BLANK: 2754459 Matrix: Water
Associated Lab Samples: 92651423004, 92651423005, 92651423006, 92651423007, 92651423008, 92651423009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.267 ± 0.220 (0.602) C:77% T:85%	pCi/L	03/01/23 16:03	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Gypsum LF RADS
Pace Project No.: 92651423

QC Batch: 567006
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92651423001, 92651423002, 92651423003

METHOD BLANK: 2753261 Matrix: Water
Associated Lab Samples: 92651423001, 92651423002, 92651423003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.472 ± 0.269 (0.470) C:89% T:96%	pCi/L	02/20/23 15:18	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant Yates Gypsum LF RADS
Pace Project No.: 92651423

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Gypsum LF RADS
Pace Project No.: 92651423

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651423001	**YAT-GWC-6R**	EPA 9315	567003		
92651423002	**YAT-GWC-5R**	EPA 9315	567003		
92651423003	**YAT-GWC-1R**	EPA 9315	567003		
92651423004	**YAT-GWC-3R**	EPA 9315	567132		
92651423005	**YAT-GWC-4R**	EPA 9315	567132		
92651423006	**YAT-GWC-2R**	EPA 9315	567132		
92651423007	**YAT-GLF-EB-1**	EPA 9315	567132		
92651423008	**YAT-GLF-FB-1**	EPA 9315	567132		
92651423009	**YAT-GLF-FD-1**	EPA 9315	567132		
92651423001	**YAT-GWC-6R**	EPA 9320	567006		
92651423002	**YAT-GWC-5R**	EPA 9320	567006		
92651423003	**YAT-GWC-1R**	EPA 9320	567006		
92651423004	**YAT-GWC-3R**	EPA 9320	567134		
92651423005	**YAT-GWC-4R**	EPA 9320	567134		
92651423006	**YAT-GWC-2R**	EPA 9320	567134		
92651423007	**YAT-GLF-EB-1**	EPA 9320	567134		
92651423008	**YAT-GLF-FB-1**	EPA 9320	567134		
92651423009	**YAT-GLF-FD-1**	EPA 9320	567134		
92651423001	**YAT-GWC-6R**	Total Radium Calculation	575358		
92651423002	**YAT-GWC-5R**	Total Radium Calculation	575358		
92651423003	**YAT-GWC-1R**	Total Radium Calculation	575358		
92651423004	**YAT-GWC-3R**	Total Radium Calculation	571849		
92651423005	**YAT-GWC-4R**	Total Radium Calculation	571849		
92651423006	**YAT-GWC-2R**	Total Radium Calculation	571849		
92651423007	**YAT-GLF-EB-1**	Total Radium Calculation	571849		
92651423008	**YAT-GLF-FB-1**	Total Radium Calculation	571849		
92651423009	**YAT-GLF-FD-1**	Total Radium Calculation	571849		

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

aboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project # WO# : 92651423

92651423

Courier: ☐ Commercial ☑ Pace ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/8/23 CM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.7 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): 4.8

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 89614

Pace

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

WO#: 92651423

Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Project #

PM: BV **Due Date: 03/01/23**

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**

****Check all unpreserved Nitrates for chlorine**

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9 3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1 ✓																		2					
2		2	1			1 ✓																		2					
3		2	1			1 ✓																		2					
4																													
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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.

Qualtrax ID: 69614

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A — Required Client Information:

Company: GA Power
Address: Atlanta, GA
Email To: bucorkar@southernco.com
Phone: 470.620.6176 Fax
Requested Due Date: Standard TAT

Section B — Required Project Information:

Report To: SCS Contacts
Copy To: Arcadis Contacts
Task No: YAT-CCR-ASSMT-202351
Purchase Order #:
Project Name: Plant Yates Gypsum Landfill
Project Number:

Section C — Invoice Information:

Attention: Southern Co.
Company Name:
Address:
Pace Quote:
Pace Project Manager: Bonnie Vang
Pace Profile #: 10840

Regulatory Agency:
State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651423
1	YAT-GWC-6R	WG	G	2/7/23	1350	--	--		6	3		3						X	X	X	X	X	X		pH: 4.31 GOI
2	YAT-GWC-5R	WG	G	2/7/23	1610	--	--		6	3		3						X	X	X	X	X	X		pH: 4.62 GOI
3	YAT-GWC-1R	WG	G	2/7/23	1435	--	--		6	3		3						X	X	X	X	X	X		pH: 6.66 GOI
4	YAT-GWC-3R	WG	G			--	--		6	3		3						X	X	X	X	X	X		pH:
5	YAT-GWC-4R	WG	G			--	--		6	3		3						X	X	X	X	X	X		pH:
6	YAT-GWC-2R	WG	G			--	--		6	3		3						X	X	X	X	X	X		pH:
7	YAT-GLF-EB-1	WG	G			--	--		6	3		3						X	X	X	X	X	X		pH:
8	YAT-GLF-FB-1	WG	G			--	--		6	3		3						X	X	X	X	X	X		pH:
9	YAT-GLF-FD-1	WG	G			--	--		6	3		3						X	X	X	X	X	X		pH:
10						--	--																		pH:
11						--	--																		
12						--	--																		

ADDITIONAL COMMENTS

Anions Suite 300.0 (Cl, F, Sulfate)
App III Metals: Boron 6020B, Ca 6010D;
App I/II 6020B: Zn, Ag, Ni, V
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Mark Chest /Arcadis	2/8/23	0802	Ryan William / Pace	2/8/23	0906
Ryan William / Pace	2/8/23	1240			

SAMPLE CONDITIONS: TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) - Mark Chest
SIGNATURE of SAMPLER: (Arcadis) - DATE Signed: 2/8/23

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Me... ☐ ... ☑

Sample Condition Upon Receipt

Client Name: GA Power

Project #

WO#: 92651423

PM: BV Due Date: 03/01/23

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: 2/9/23 CA

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.1 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): 2.2

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project # **WO#: 92651423**

PM: BV **Due Date: 03/01/23**

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			2				
2		2	1			1																			2				
3		2	1			1																			2				
4		2	1			1																			2				
5		2	1			1																			2				
6		2	1			1																			2				
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10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 Of 1

Section A – Required Client Information:
Company: GA Power
Address: Atlanta, GA
Email To: laucoker@southernco.com
Phone: 470.620.6176 Fax:
Requested Due Date: Standard TAT

Section B – Required Project Information:
Report To: SCS Contacts
Copy To: Arcadis Contacts
Task No: YAT-CCR-ASSMT-202351
Purchase Order #:
Project Name: Plant Yates Gypsum Landfill
Project Number:

Section C – Invoice Information:
Attention: Southern Co.
Company Name:
Address:
Pace Quote:
Pace Project Manager: Bonnie Vang
Pace Profile #: 10840

Regulatory Agency:
State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651423
1	YAT-GWC-6R	WG	G			--	--		6	3		3							X	X	X	X	X	X		pH:
2	YAT-GWC-5R	WG	G			--	--		6	3		3							X	X	X	X	X	X		pH:
3	YAT-GWC-1R	WG	G			--	--		6	3		3							X	X	X	X	X	X		pH:
4	YAT-GWC-3R	WG	G	2/8/23	1130	--	--		6	3		3							X	X	X	X	X	X		pH: 5.21 004
5	YAT-GWC-4R	WG	G	2/7/23	1323	--	--		6	3		3							X	X	X	X	X	X		pH: 5.67 006
6	YAT-GWC-2R	WG	G	2/8/23	1451	--	--		6	3		3							X	X	X	X	X	X		pH: 4.96 Mple
7	YAT-GLF-EB-1	WG	G	2/9/23	1512	--	--		6	3		3							X	X	X	X	X	X		pH: — 007
8	YAT-GLF-FB-1	WG	G	2/9/23	1135	--	--		6	3		3							X	X	X	X	X	X		pH: — 009
9	YAT-GLF-FD-1	WG	G	2/8/23	—	--	--		6	3		3							X	X	X	X	X	X		pH: — 009
10						--	--																			
11						--	--																			
12						--	--																			

ADDITIONAL COMMENTS

Anions Suite 300.0 (Cl, F, Sulfate)

App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V

App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.**

Alkalinity - report total, carbonate, and bicarbonate

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
/Arcadis	2/9/23	0900	Kyan William / Pace	2/9/23	0920
Kyan William / Pace	2/9/23	1235	Chuck Hunt	2/9/23	235

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) - Mark Chest

SIGNATURE of SAMPLER: (Arcadis) -

DATE Signed: 2/9/23

SAMPLE CONDITIONS			
TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Upgradient Wells

February 2023

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92651382 and 92651421

Analyses Performed By:
Pace Analytical Services – Asheville, North Carolina
Pace Analytical Services – Peachtree Corners, Georgia
Pace Analytical Services – Greensburg, Pennsylvania

Report #49109R
Review Level: Tier II
Project: 30143607.3B

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92651382 and 92651421 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-YGWA-1I	92651382001 92651421001	Water	2/7/2023		X	X	X
YAT-YGWA-1D	92651382002 92651421002	Water	2/7/2023		X	X	X
YAT-YGWA-2I	92651382003 92651421003	Water	2/7/2023		X	X	X
YAT-GWA-2	92651382004 92651421004	Water	2/7/2023		X	X	X
YAT-YGWA-5D	92651382005 92651421005	Water	2/7/2023		X	X	X
YAT-YGWA-20S	92651382006 92651421006	Water	2/7/2023		X	X	X
YAT-YGWA-21I	92651382007 92651421007	Water	2/7/2023		X	X	X
YAT-YGWA-17S	92651382008 92651421008	Water	2/7/2023		X	X	X
YAT-YGWA-18S	92651382009 92651421009	Water	2/7/2023		X	X	X
YAT-YGWA-18I	92651382010 92651421010	Water	2/7/2023		X	X	X
YAT-YGWA-39	92651382011 92651421011	Water	2/7/2023		X	X	X
YAT-YGWA-47	92651382012 92651421012	Water	2/8/2023		X	X	X

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-YGWA-30I	92651382013 92651421013	Water	2/8/2023		X	X	X
YAT-YGWA-14S	92651382014 92651421014	Water	2/8/2023		X	X	X
YAT-YGWA-3I	92651382015 92651421015	Water	2/8/2023		X	X	X
YAT-YGWA-3D	92651382016 92651421016	Water	2/8/2023		X	X	X
YAT-YGWA-40	92651382017 92651421017	Water	2/8/2023		X	X	X
YAT-YGWA-4I	92651382018 92651421018	Water	2/9/2023		X	X	X
YAT-YGWA-5I	92651382019 92651421019	Water	2/9/2023		X	X	X

Notes:

1. Metals and total dissolved solids (TDS) analysis performed by Pace Analytical Services – Peachtree Corners, Georgia.
2. Alkalinity and 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, 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 USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-45, October 2004, as appropriate).

The data review process is an evaluation of data on a technical basis rather than a determination of contract compliance. As such, the standards against which the data are being weighed may differ from those specified in the analytical method. It is assumed that the data package represents the best efforts of the laboratory and that it was already subjected to adequate and sufficient quality review prior to submission.

During the review process, laboratory qualified and unqualified data are verified against the supporting documentation. Based on this evaluation, qualifier codes may be added, deleted, or modified by the data reviewer. Results are qualified with the following codes in accordance with the USEPA National Functional Guidelines:

- Concentration (C) Qualifiers
  - U The analyte was analyzed for but not detected. The associated value is the analyte instrument detection limit.
  - J The reported value was obtained from a reading less than the reporting limit (RL), but greater than or equal to the method detection limit (MDL).
- Quantitation (Q) Qualifiers
  - E The reported value is estimated due to the presence of interference.
  - N Spiked sample recovery is not within control limits.
  - * Duplicate analysis is not within control limits.
- Validation Qualifiers
  - J The analyte was positively identified; however, the associated numerical value is an estimated concentration only.
  - UJ The analyte was not detected above the reporting limit. However, the reported limit is approximate and may or may not represent the actual limit of detection.
  - UB Analyte considered non-detect at the listed value due to associated blank contamination.
  - R The sample results are rejected.

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.

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 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 was performed using sample YAT-YGWA-2I in association with SW-846 6010D analysis, however the concentrations of calcium and sodium in the unspiked sample were greater than four-times the spike concentration. The MS/MSD sample results were not evaluated.

The MS/MSD analysis performed using sample YAT-YGWA-21I in association with SW-846 6020B analysis exhibited recoveries within the control limits.

MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 7470A analysis.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with SW-846 6010D and SW-846 6020B. The MS/MSD recoveries exhibited acceptable RPDs.

Laboratory duplicate or MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 7470A analysis.

4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. A control limit of 35% for water matrices is applied to the RPD between the parent sample and the field duplicate. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of two times the RL is applied for water matrices.

A field duplicate sample was not collected in association with this SDG.

5. Laboratory Control Sample (LCS) Analysis

The LCS analysis is used to assess the accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS analysis must exhibit a percent recovery between the control limits of 80% and 120%.

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Metals

METALS: SW-846 6010D/6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) Atomic Absorption – Manual Cold Vapor (CV)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks	X				X
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)	X				X

Notes:

%R Percent recovery

RPD Relative percent difference

General Chemistry Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
pH by SM4500-H+ B	Water	ASAP	Cool to <6°C
Total Dissolved Solids (TDS) by SM2540C	Water	7 days from collection to analysis	Cool to <6°C
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 samples YAT-YGWA-1I, YAT-YGWA-1D, YAT-YGWA-4I, and YAT-YGWA-5I in association with alkalinity analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using samples YAT-YGWA-18I and YAT-YGWA-3I in association with anions analysis exhibited recoveries within the control limits.

3.2 Laboratory Duplicate Analysis

The laboratory duplicate relative percent difference (RPD) criterion is applied when parent and duplicate sample concentrations are greater than or equal to 5 times the RL. A control limit of 20% for water matrices is applied when the criteria above is true. In the instance when the parent and/or duplicate sample concentrations are less than or equal to 5 times the RL, a control limit of one times the RL is applied for water matrices.

The laboratory duplicate analysis performed using samples YAT-YGWA-17S and YAT-YGWA-47 in association with TDS analysis exhibited an RPD or difference in the results within the control limit.

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with 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.

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, SM2540C, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks	X				X
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)	X				X

Notes:

%R Percent recovery

RPD Relative percent difference

Radiological Analyses

1. Holding Times

The specified holding times for the following methods are presented in the following table.

Method	Matrix	Holding Time	Preservation
Radium-226 by SW-846 9315	Water	180 days from collection to analysis	Preserved to a pH of less than 2 s.u.
Radium-228 by SW-846 9320	Water	180 days from collection to analysis	Preserved to a pH of less than 2 s.u.

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

Quality assurance (QA) blanks (i.e., method and field/rinse blanks) are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field/rinse blanks measure contamination of samples during field operations.

Blank results should be verified to be accurately reported and that tolerance limits (±2 sigma or standard deviation) were not exceeded; and blank results verified to be less than the minimum detectable concentration (MDC).

For blanks to be considered not applicable, verify net blank results are less than the associated uncertainty by evaluating the blank results based on the following three criteria. If either of these criteria is true, the blank is considered not suspect of contamination (or non-detect).

1. Is the blank result less than the uncertainty and less than the MDC?
2. Does the blank have an uncertainty greater than the result (or indistinguishable from background) or does the blank result fall between its uncertainty and its MDC?

If the blank QC results fall outside the appropriate tolerance limits or if the net blank results are not less than the associated uncertainty, the following equation for normalized absolute difference (NAD) should be used in determining the effect of possible blank contamination on the sample results:

$$Normalized\ \ absolute\ difference_{\ MethodBlank} = \frac{|\ Sample\ -\ Blank\ |}{\sqrt{(U_{Sample}\ )^2 + (U_{Blank}\ )^2}}$$

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

Normalized Absolute Difference	Qualification
> 2.58	None
1.96 > x < 2.58	J
x < 1.96	J*

Note:
* = Minimally the result should be qualified as estimated, J; however, if other quality indicators are deficient the validator may determine the result should be qualified as rejected, R

Radium-226 was detected in the method blank, however, the activity was measured as less than the uncertainty and MDC. Hence, the blank results are considered non-detect and no qualification of the results was required.

Radium-228 was detected in the method blank at an activity greater than the uncertainty and MDC. The NAD was calculated for each sample. The Radium-228 results in samples YAT-GWA-2, YAT-YGWA-5D, YAT-YGWA-21I, YAT-YGWA-39, YAT-YGWA-3I, and YAT-YGWA-3D were qualified as "J" since the NAD were less than 1.96. No qualifiers were assigned to the Radium-228 results in samples YAT-YGWA-1I, YAT-YGWA-1D, YAT-YGWA-2I, YAT-YGWA-20S, YAT-YGWA-17S, YAT-YGWA-18S, YAT-YGWA-18I, YAT-YGWA-47, YAT-YGWA-30I, and YAT-YGWA-14S since the activities were less than the MDC.

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

MS and laboratory duplicate data are used to assess the precision and accuracy of the analytical method.

3.1 MS Analysis

MS samples are not typically analyzed for gamma spectral content due to the inability of the laboratory to homogenize spike material with the sample.

If performed, the spike analysis must exhibit a percent recovery within the control limits of 70% to 130%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits.

In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of < ±3 sigma for either.

The numerical performance indicator for a matrix spike sample is calculated by:

$$Z_{MS} = \frac{x - x_0 - c}{\sqrt{u^2(x) + u^2(x_0) + u^2(c)}}$$

Where:

x = measured concentration of the spiked sample.

x_0 = measured concentration of the unspiked sample.

c = spike concentration added.

$u^2(x)$, $u^2(x0)$, $u^2(c)$ = the squares of the respective standard uncertainties of these values.

MS performance for all matrices is acceptable when the numerical performance indicator calculation yields a value between ±3 sigma. Warning limits have been established as ±2 sigma.

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:

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:

- YAT-GWA-2 – Radium-226
- YAT-YGWA-4I – Radium-228
- YAT-YGWA-1I, YAT-YGWA-1D, YAT-YGWA-2I, YAT-YGWA-20S, YAT-YGWA-17S, YAT-YGWA-18S, YAT-YGWA-18I, YAT-YGWA-47, YAT-YGWA-30I, YAT-YGWA-14S, YAT-YGWA-5I – Radium-226, Radium-228, and total Radium

8. System Performance and Overall Assessment

Overall system performance was acceptable. Other than for those deviations specifically mentioned in this review, the overall data quality is within the guidelines specified in the method.

Data Validation Checklist for Radiologicals

Radiologicals: SW-846 9315/9320	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Activity, +/- uncertainty, MDC/MDA		X		X	
Blanks					
A. Method Blanks		X	X		
B. Equipment/Field Blanks	X				X
Carrier (Surrogate) %R		X		X	
Tracer (Surrogate) %R		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)	X				X

Notes:

%R Percent recovery

RPD Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE: 

DATE: April 24, 2023

PEER REVIEW: Joseph C. Houser

DATE: May 8, 2023

Chain of Custody / Data Qualifier Summary Table

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A
Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax
Requested Due Date:	Standard TAT

Section B
Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-2023S1
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C
Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	~~Nicole D'Oleo~~ Bonnie Vang
Pace Profile #:	10840

Page : 1 Of 1

Regulatory Agency
State / Location
Georgia

SAMPLE ID
One Character per box.
(A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N Analyses Test	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651421
1	YAT-YGWA-39	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
2	YAT-YGWA-40	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
3	YAT-YGWA-1I	WG	G	2/7/23	1145	--	--		6	3		3							X	X	X	X	X			pH: 6.53 001
4	YAT-YGWA-1D	WG	G	2/7/23	1340	--	--		6	3		3							X	X	X	X	X			pH: 7.86 002
5	YAT-YGWA-2I	WG	G	2/7/23	1540	--	--		6	3		3							X	X	X	X	X			pH: 6.94 003
6	YAT-YGWA-3I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-3D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
8						--	--																			pH:
9						--	--																			pH:
10						--	--																			pH:
11						--	--																			pH:
12						--	--																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jake Swanson /Arcadis	2/8/23	0800	[signature] Arcadis	2/8/23	0800	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	[signature] /Arcadis	2/8/23	0900	Ryan Williams / Pace	2/8/23	0900	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**	Ryan Williams / Pace	2/8/23	1240				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) - Jake Swanson

SIGNATURE of SAMPLER: (Arcadis) - [signature] DATE Signed: 2/8/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax
Requested Due Date:	Standard TAT

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-2023S1
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	~~Nicole D'Oleo~~ Bonnie Vu
Pace Profile #:	10840

Regulatory Agency:

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651421
1	YAT-YGWA-47	WG	G			--	--		6	3		3						X	X	X	X	X				
2	YAT-GWA-2	WG	G	2/1/23	1148	--	--		6	3		3						X	X	X	X	X	X			pH: 5.94
3	YAT-YGWA-4I	WG	G			--	--		6	3		3						X	X	X	X	X				pH: 6.04
4	YAT-YGWA-5I	WG	G			--	--		6	3		3						X	X	X	X	X				pH:
5	YAT-YGWA-5D	WG	G			--	--		6	3		3						X	X	X	X	X				pH:
6	YAT-YGWA-17S	WG	G			--	--		6	3		3						X	X	X	X	X				pH:
7	YAT-YGWA-18S	WG	G			--	--		6	3		3						X	X	X	X	X				pH:
8	YAT-YGWA-18I	WG	G			--	--		6	3		3						X	X	X	X	X				pH:
9	YAT-YGWA-20S	WG	G			--	--		6	3		3						X	X	X	X	X				pH:
10	YAT-YGWA-21I	WG	G			--	--		6	3		3						X	X	X	X	X				pH:
11	YAT-YGWA-30I	WG	G			--	--		6	3		3						X	X	X	X	X				pH:
12	YAT-YGWA-14S	WG	G			--	--		6	3		3						X	X	X	X	X				pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Mark Chost /Arcadis	2/8/23	0900	Ryan Williams / Pace	2/8/23	0900	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	Ryan Williams / Pace	2/8/23	1240				
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chost - Arcadis

SIGNATURE of SAMPLER: Arcadis Mark Chost DATE Signed: 2/3/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S1	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole D'Olio~~ Bonnie Young
Requested Due Date:	Std TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651421
1	YAT-YGWA-47	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
2	YAT-GWA-2	WG	G			--	--		6	3		3							X	X	X	X	X	X		pH:
3	YAT-YGWA-4I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
4	YAT-YGWA-5I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
5	YAT-YGWA-5D	WG	G	2/7/23	1622	--	--		6	3		3							X	X	X	X	X			pH: 6.04 005
6	YAT-YGWA-17S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-18S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
8	YAT-YGWA-18I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
9	YAT-YGWA-20S	WG	G	2/7/23	1450	--	--		6	3		3							X	X	X	X	X			pH: 5.63 006
10	YAT-YGWA-21I	WG	G	2/7/23	1248	--	--		6	3		3							X	X	X	X	X			pH: 6.82 007
11	YAT-YGWA-30I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
12	YAT-YGWA-14S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/8/23	0800		2/8/23	0800
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V		2/8/23	0900	Ryan William / Pace	2/8/23	0960
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**	Ryan William / Pace	2/8/23	1240			

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Kim Lapszynski		
SIGNATURE of SAMPLER:		DATE Signed:	2/8/23

SAMPLE CONDITIONS			
TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page: 1 of 2

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax
Requested Due Date:	Std TAT

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-2023S1
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	~~Nicole D'Oleo~~ Bonnie Yang
Pace Profile #:	10840

Regulatory Agency: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	926542 1
1	YAT-YGWA-47	WG	G			--	--		6	3		3						X	X	X	X	X				pH:
2	YAT-GWA-2	WG	G			--	--		6	3		3						X	X	X	X	X	X			pH:
3	YAT-YGWA-4I	WG	G			--	--		6	3		3						X	X	X	X	X				pH:
4	YAT-YGWA-5I	WG	G			--	--		6	3		3						X	X	X	X	X				pH:
5	YAT-YGWA-5D	WG	G			--	--		6	3		3						X	X	X	X	X				pH:
6	YAT-YGWA-17S	WG	G	2/7/23	1116	--	--		6	3		3						X	X	X	X	X				pH: 5.47 006
7	YAT-YGWA-18S	WG	G	2/7	1348	--	--		6	3		3						X	X	X	X	X				pH: 5.03 009
8	YAT-YGWA-18I	WG	G	2/7	1231	--	--		6	3		3						X	X	X	X	X				pH: 6.00 010
9	YAT-YGWA-20S	WG	G			--	--		6	3		3						X	X	X	X	X				pH:
10	YAT-YGWA-21I	WG	G			--	--		6	3		3						X	X	X	X	X				pH:
11	YAT-YGWA-30I	WG	G			--	--		6	3		3						X	X	X	X	X				pH:
12	YAT-YGWA-14S	WG	G			--	--		6	3		3						X	X	X	X	X				pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/8/23	0800	/AECOM	2/9/23	0800
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	/AECOM	2/9/23	0900	Ryan William /PACE	2/8/23	0900
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**	Ryan William /PACE	2/8/23	1240			

SAMPLE CONDITIONS			
TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware - Arcadis

SIGNATURE of SAMPLER: Jessica Ware (Arcadis) DATE Signed: 2/8/23

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 2 of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S1	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency	
State / Location	Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N): Y/N	Analyses Test	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YAT-YGWA-39	WG	G	2/7	1615	--	--		6	3		3							X	X	X	X	X				pH: 5.49 ok
2	YAT-YGWA-40	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
3	YAT-YGWA-1I	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
4	YAT-YGWA-1D	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
5	YAT-YGWA-2I	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
6	YAT-YGWA-3I	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
7	YAT-YGWA-3D	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
8						--	--																				pH:
9						--	--																				pH:
10						--	--																				pH:
11						--	--																				
12						--	--																				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware /Arcadis	2/8/23	0800	[signature] 2/8/23	2/8/23	0800	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	[signature] /Arc	2/8/23	0800	Ryan William / Pace	2/9/23	0900	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**	Ryan William / Pace	2/8/23	1240				

SAMPLER NAME AND SIGNATURE						
PRINT Name of SAMPLER:	(Arcadis) - Jessica Ware					
SIGNATURE of SAMPLER:	(Arcadis) [signature]	DATE Signed: 2/8/23	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax
Requested Due Date:	STD TAT

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-2023S1
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	~~Nicole D'Oleo~~ Brianne Vann
Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

SAMPLE ID
One Character per box. (A-Z, 0-9 / , -)
Sample Ids must be unique

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YAT-YGWA-47	WG	G	2/2/23	1702	--	--		6	3		3							X	X	X	X	X			pH: 5.22 0012
2	YAT-GWA-2	WG	G			--	--		6	3		3							X	X	X	X	X	X		pH:
3	YAT-YGWA-4I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
4	YAT-YGWA-5I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
5	YAT-YGWA-5D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
6	YAT-YGWA-17S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-18S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
8	YAT-YGWA-18I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
9	YAT-YGWA-20S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
10	YAT-YGWA-21I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
11	YAT-YGWA-30I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
12	YAT-YGWA-14S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:

GW 61382

ADDITIONAL COMMENTS

Anions Suite 300.0 (Cl, F, Sulfate)

App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V

App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.**

Alkalinity - report total, carbonate, and bicarbonate

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
[signature] /Arcadis	2/9/23	0920	Ryan Williams / Pace	2/9/23	0920
Ryan Williams / Pace	2/9/23	1235	[signature]	2/9/23	1235

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chest - Arcadis

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/9/23

SAMPLE CONDITIONS

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 2

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S1	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:	STD TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

Matrix codes: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	9605382
1	YAT-YGWA-47	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
2	YAT-GWA-2	WG	G			--	--		6	3		3							X	X	X	X	X	X			pH:
3	YAT-YGWA-4I	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
4	YAT-YGWA-5I	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
5	YAT-YGWA-5D	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
6	YAT-YGWA-17S	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
7	YAT-YGWA-18S	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
8	YAT-YGWA-18I	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
9	YAT-YGWA-20S	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
10	YAT-YGWA-21I	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
11	YAT-YGWA-30I	WG	G	2/8	1510	--	--		6	3		3							X	X	X	X	X				pH: 6.43 013
12	YAT-YGWA-14S	WG	G	2/8	1350	--	--		6	3		3							X	X	X	X	X				pH: 5.39 014

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/23	830	/AUS	2/9/23	0830	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	/AUS	2/9/23	920	Ryan Williams / Pace	2/9/23	0920	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**	Ryan Williams / Pace	2/9/23	1235		2/9/23	1235	

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:	Jake Swanson					
SIGNATURE of SAMPLER:		DATE Signed: 2/9/23				

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:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S1	Address:	
Email To:	jaucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:	STD TAT	Project Number:		Pace Profile #:	10840

Requested Agency: | State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651382
1	YAT-YGWA-39	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
2	YAT-YGWA-40	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
3	YAT-YGWA-1I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
4	YAT-YGWA-1D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
5	YAT-YGWA-2I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
6	YAT-YGWA-3I	WG	G	2/8	1000	--	--		6	3		3							X	X	X	X	X			pH: 7.73 OK
7	YAT-YGWA-3D	WG	G	2/8	1140	--	--		6	3		3							X	X	X	X	X			pH: 7.88 OK
8						--	--																			pH:
9						--	--																			pH:
10						--	--																			pH:
11						--	--																			
12						--	--																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/23	830	/AWS	2/9/23	0833	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	/AWS	2/9/23	0820	Ryan William /Pace	2/9/23	0900	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	Ryan William /Pace	2/9/23	1235		2/9/23	1235	

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	(Arcadis) -	Jake Swanson	
SIGNATURE of SAMPLER:	(Arcadis) -		DATE Signed: 2/9/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A – Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax:
Requested Due Date:	5-10 TAT

Section B – Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-2023S1
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C – Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	~~Nicole O'Dea~~ Ronnie Vans
Pace Profile #:	10840

Regulatory Agency: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 903.1/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651382
1	YAT-YGWA-39	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
2	YAT-YGWA-40	WG	G	2/8/23	1202	--	--		6	3		3							X	X	X	X	X			pH: 5.71 OK
3	YAT-YGWA-1I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
4	YAT-YGWA-1D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
5	YAT-YGWA-2I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
6	YAT-YGWA-3I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-3D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
8						--	--																			pH:
9						--	--																			pH:
10						--	--																			pH:
11						--	--																			
12						--	--																			

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/23	0900	/Pace	2/9/23	0900	
App III Metals: Boron 6020B, Ca 6010D; App IV 6020B: Zn, Ag, Ni, V		2/9/23	0920	/Pace	2/9/23	0920	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**	/Pace	2/9/23	1235		2/9/23	1235	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) -

SIGNATURE of SAMPLER: (Arcadis) - DATE Signed: 2/9/23

TEMP in C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : | Of |

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-292351	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole D'Otero~~ Bonnie Vann
Requested Due Date:	Std TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651382
1	YAT-YGWA-47	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
2	YAT-GWA-2	WG	G			--	--		6	3		3							X	X	X	X	X	X		pH:
3	YAT-YGWA-4I	WG	G	2/1/23	0955	--	--		6	3		3							X	X	X	X	X			pH: 6.23 018
4	YAT-YGWA-5I	WG	G	2/1/23	1126	--	--		6	3		3							X	X	X	X	X			pH: 5.90 119
5	YAT-YGWA-5D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
6	YAT-YGWA-17S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-18S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
8	YAT-YGWA-18I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
9	YAT-YGWA-20S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
10	YAT-YGWA-21I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
11	YAT-YGWA-30I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
12	YAT-YGWA-14S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Kim Lapszynski /Arcadis	2/10/23	1200	/Arcadis	2/10/23	1200	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V							
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonates, and bicarbonate	/Arcadis	2/10/23	1400		2/10/23	1400	

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:	Kim Lapszynski					
SIGNATURE of SAMPLER:		DATE Signed: 2/10/23				

WO#: 92651382

PM: BV Due Date: 02/22/23

CLIENT: GA-GA Power

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92651382	No qualifiers assigned						
92651421	YAT-GWA-2	SW846 9320	Radium-228	0.749 +/- 0.364	pCi/L	J	Blank contamination
	YAT-YGWA-5D	SW846 9320	Radium-228	1.68 +/- 0.524	pCi/L	J	Blank contamination
	YAT-YGWA-21I	SW846 9320	Radium-228	1.07 +/- 0.475	pCi/L	J	Blank contamination
	YAT-YGWA-39	SW846 9320	Radium-228	0.707 +/- 0.366	pCi/L	J	Blank contamination
	YAT-YGWA-3I	SW846 9320	Radium-228	0.775 +/- 0.381	pCi/L	J	Blank contamination
	YAT-YGWA-3D	SW846 9320	Radium-228	1.72 +/- 0.524	pCi/L	J	Blank contamination

Abbreviations:
pCi/L = picoCuries per liter

Qualifiers:
J = estimated result

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

March 19, 2023

Ms. Lauren Petty
Southern Company
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 08, 2023 and February 10, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Noelia Gangi, Georgia Power
Geoffrey Gay, ARCADIS - Atlanta
Ben Hodges, Georgia Power-CCR
Kristen Jurinko
Laura Midkiff, Georgia Power
Alex Simpson, Arcadis
Michael Smilley, Georgia Power
Becky Steever, Arcadis
Tina Sullivan, ERM
Jessica Ware, ARCADIS - Atlanta
Albert Zumbuhl, Arcadis

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991
Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 460198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92651421001	**YAT-YGWA-1I**	Water	02/07/23 11:45	02/08/23 09:00
92651421002	**YAT-YGWA-1D**	Water	02/07/23 13:40	02/08/23 09:00
92651421003	**YAT-YGWA-2I**	Water	02/07/23 15:40	02/08/23 09:00
92651421004	**YAT-GWA-2**	Water	02/07/23 11:48	02/08/23 09:00
92651421005	**YAT-YGWA-5D**	Water	02/07/23 16:22	02/08/23 09:00
92651421006	**YAT-YGWA-20S**	Water	02/07/23 14:50	02/08/23 09:00
92651421007	**YAT-YGWA-21I**	Water	02/07/23 12:48	02/08/23 09:00
92651421008	**YAT-YGWA-17S**	Water	02/07/23 11:16	02/08/23 09:00
92651421009	**YAT-YGWA-18S**	Water	02/07/23 13:48	02/08/23 09:00
92651421010	**YAT-YGWA-18I**	Water	02/07/23 12:31	02/08/23 09:00
92651421011	**YAT-YGWA-39**	Water	02/07/23 16:15	02/08/23 09:00
92651421012	**YAT-YGWA-47**	Water	02/08/23 17:02	02/09/23 12:35
92651421013	**YAT-YGWA-30I**	Water	02/08/23 15:10	02/09/23 12:35
92651421014	**YAT-YGWA-14S**	Water	02/08/23 13:50	02/09/23 12:35
92651421015	**YAT-YGWA-3I**	Water	02/08/23 10:00	02/09/23 12:35
92651421016	**YAT-YGWA-3D**	Water	02/08/23 11:40	02/09/23 12:35
92651421017	**YAT-YGWA-40**	Water	02/08/23 12:02	02/09/23 12:35
92651421018	**YAT-YGWA-4I**	Water	02/09/23 09:55	02/10/23 14:00
92651421019	**YAT-YGWA-5I**	Water	02/09/23 11:26	02/10/23 14:00

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92651421001	**YAT-YGWA-1I**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421002	**YAT-YGWA-1D**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421003	**YAT-YGWA-2I**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421004	**YAT-GWA-2**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421005	**YAT-YGWA-5D**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421006	**YAT-YGWA-20S**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421007	**YAT-YGWA-21I**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421008	**YAT-YGWA-17S**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421009	**YAT-YGWA-18S**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421010	**YAT-YGWA-18I**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421011	**YAT-YGWA-39**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421012	**YAT-YGWA-47**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421013	**YAT-YGWA-30I**	EPA 9315	RMS	1	PASI-PA

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421014	**YAT-YGWA-14S**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421015	**YAT-YGWA-3I**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421016	**YAT-YGWA-3D**	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421017	**YAT-YGWA-40**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421018	**YAT-YGWA-4I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421019	**YAT-YGWA-5I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651421001	**YAT-YGWA-1I**					
EPA 9315	Radium-226	0.154 ± 0.213 (0.464) C:91% T:NA	pCi/L		03/02/23 08:32	
EPA 9320	Radium-228	0.507 ± 0.358 (0.686) C:76% T:84%	pCi/L		02/28/23 12:41	
Total Radium Calculation	Total Radium	0.661 ± 0.571 (1.15)	pCi/L		03/02/23 15:06	
92651421002	**YAT-YGWA-1D**					
EPA 9315	Radium-226	0.282 ± 0.218 (0.382) C:89% T:NA	pCi/L		03/02/23 08:32	
EPA 9320	Radium-228	0.638 ± 0.374 (0.676) C:78% T:86%	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	0.920 ± 0.592 (1.06)	pCi/L		03/02/23 15:06	
92651421003	**YAT-YGWA-2I**					
EPA 9315	Radium-226	0.0443 ± 0.127 (0.314) C:93% T:NA	pCi/L		03/02/23 08:32	
EPA 9320	Radium-228	0.492 ± 0.308 (0.559) C:81% T:89%	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	0.536 ± 0.435 (0.873)	pCi/L		03/02/23 15:06	
92651421004	**YAT-GWA-2**					
EPA 9315	Radium-226	0.254 ± 0.191 (0.314) C:94% T:NA	pCi/L		03/02/23 08:32	
EPA 9320	Radium-228	0.749 ± 0.364 (0.596) C:81% T:82%	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	1.00 ± 0.555 (0.910)	pCi/L		03/02/23 15:06	

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651421005	**YAT-YGWA-5D**					
EPA 9315	Radium-226	2.31 ± 0.576 (0.258) C:91% T:NA	pCi/L		03/02/23 08:32	
EPA 9320	Radium-228	1.68 ± 0.524 (0.615) C:84% T:81%	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	3.99 ± 1.10 (0.873)	pCi/L		03/02/23 15:06	
92651421006	**YAT-YGWA-20S**					
EPA 9315	Radium-226	0.123 ± 0.145 (0.290) C:102% T:NA	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	0.671 ± 0.421 (0.801) C:81% T:87%	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	0.794 ± 0.566 (1.09)	pCi/L		03/02/23 15:06	
92651421007	**YAT-YGWA-21I**					
EPA 9315	Radium-226	0.457 ± 0.228 (0.252) C:98% T:NA	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	1.07 ± 0.475 (0.795) C:82% T:81%	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	1.53 ± 0.703 (1.05)	pCi/L		03/02/23 15:06	
92651421008	**YAT-YGWA-17S**					
EPA 9315	Radium-226	-0.135 ± 0.0961 (0.402) C:94% T:NA	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	0.367 ± 0.403 (0.846) C:79% T:88%	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	0.367 ± 0.499 (1.25)	pCi/L		03/02/23 15:06	

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651421009	**YAT-YGWA-18S**					
EPA 9315	Radium-226	0.0706 ± 0.136 (0.314) C:93% T:NA	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	0.585 ± 0.433 (0.859) C:80% T:89%	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	0.656 ± 0.569 (1.17)	pCi/L		03/02/23 15:06	
92651421010	**YAT-YGWA-18I**					
EPA 9315	Radium-226	0.0453 ± 0.136 (0.339) C:87% T:NA	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	0.440 ± 0.347 (0.687) C:81% T:91%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	0.485 ± 0.483 (1.03)	pCi/L		03/02/23 15:06	
92651421011	**YAT-YGWA-39**					
EPA 9315	Radium-226	0.700 ± 0.299 (0.345) C:94% T:NA	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	0.707 ± 0.366 (0.629) C:77% T:90%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	1.41 ± 0.665 (0.974)	pCi/L		03/02/23 15:06	
92651421012	**YAT-YGWA-47**					
EPA 9315	Radium-226	0.146 ± 0.149 (0.267) C:88% T:NA	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	0.229 ± 0.339 (0.731) C:71% T:84%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	0.375 ± 0.488 (0.998)	pCi/L		03/02/23 15:06	

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651421013	**YAT-YGWA-30I**					
EPA 9315	Radium-226	-0.00593 ± 0.0878 (0.274) C:92% T:NA	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	0.417 ± 0.354 (0.703) C:73% T:89%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	0.417 ± 0.442 (0.977)	pCi/L		03/02/23 15:06	
92651421014	**YAT-YGWA-14S**					
EPA 9315	Radium-226	0.0964 ± 0.190 (0.439) C:85% T:NA	pCi/L		03/01/23 20:01	
EPA 9320	Radium-228	0.734 ± 0.414 (0.749) C:79% T:83%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	0.830 ± 0.604 (1.19)	pCi/L		03/02/23 15:06	
92651421015	**YAT-YGWA-3I**					
EPA 9315	Radium-226	0.402 ± 0.235 (0.311) C:93% T:NA	pCi/L		03/01/23 20:03	
EPA 9320	Radium-228	0.775 ± 0.381 (0.638) C:75% T:88%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	1.18 ± 0.616 (0.949)	pCi/L		03/02/23 15:06	
92651421016	**YAT-YGWA-3D**					
EPA 9315	Radium-226	1.02 ± 0.369 (0.322) C:91% T:NA	pCi/L		03/01/23 20:04	
EPA 9320	Radium-228	1.72 ± 0.524 (0.622) C:78% T:92%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	2.74 ± 0.893 (0.944)	pCi/L		03/02/23 15:06	

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651421017	**YAT-YGWA-40**					
EPA 9315	Radium-226	0.450 ± 0.200 (0.230) C:98% T:NA	pCi/L		03/03/23 09:54	
EPA 9320	Radium-228	1.11 ± 0.501 (0.817) C:78% T:85%	pCi/L		02/28/23 17:08	
Total Radium Calculation	Total Radium	1.56 ± 0.701 (1.05)	pCi/L		03/06/23 14:37	
92651421018	**YAT-YGWA-4I**					
EPA 9315	Radium-226	0.698 ± 0.253 (0.228) C:93% T:NA	pCi/L		03/03/23 09:54	
EPA 9320	Radium-228	0.419 ± 0.399 (0.815) C:75% T:88%	pCi/L		02/28/23 17:09	
Total Radium Calculation	Total Radium	1.12 ± 0.652 (1.04)	pCi/L		03/06/23 14:37	
92651421019	**YAT-YGWA-5I**					
EPA 9315	Radium-226	0.0549 ± 0.0861 (0.185) C:94% T:NA	pCi/L		03/03/23 09:54	
EPA 9320	Radium-228	0.0266 ± 0.380 (0.881) C:78% T:83%	pCi/L		02/28/23 17:09	
Total Radium Calculation	Total Radium	0.0815 ± 0.466 (1.07)	pCi/L		03/06/23 14:37	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-1I **Lab ID: 92651421001** Collected: 02/07/23 11:45 Received: 02/08/23 09:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.154 ± 0.213 (0.464) C:91% T:NA**	pCi/L	03/02/23 08:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.507 ± 0.358 (0.686) C:76% T:84%**	pCi/L	02/28/23 12:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.661 ± 0.571 (1.15)**	pCi/L	03/02/23 15:06	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-1D **Lab ID: 92651421002** Collected: 02/07/23 13:40 Received: 02/08/23 09:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.282 ± 0.218 (0.382) C:89% T:NA**	pCi/L	03/02/23 08:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.638 ± 0.374 (0.676) C:78% T:86%**	pCi/L	02/28/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.920 ± 0.592 (1.06)**	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-2I **Lab ID: 92651421003** Collected: 02/07/23 15:40 Received: 02/08/23 09:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0443 ± 0.127 (0.314) C:93% T:NA**	pCi/L	03/02/23 08:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.492 ± 0.308 (0.559) C:81% T:89%**	pCi/L	02/28/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.536 ± 0.435 (0.873)**	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-GWA-2 **Lab ID: 92651421004** Collected: 02/07/23 11:48 Received: 02/08/23 09:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.254 ± 0.191 (0.314) C:94% T:NA**	pCi/L	03/02/23 08:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.749 ± 0.364 (0.596) C:81% T:82%**	pCi/L	02/28/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.00 ± 0.555 (0.910)**	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-5D **Lab ID: 92651421005** Collected: 02/07/23 16:22 Received: 02/08/23 09:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**2.31 ± 0.576 (0.258) C:91% T:NA**	pCi/L	03/02/23 08:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.68 ± 0.524 (0.615) C:84% T:81%**	pCi/L	02/28/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.99 ± 1.10 (0.873)**	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-20S **Lab ID: 92651421006** Collected: 02/07/23 14:50 Received: 02/08/23 09:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.123 ± 0.145 (0.290) C:102% T:NA**	pCi/L	03/02/23 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.671 ± 0.421 (0.801) C:81% T:87%**	pCi/L	02/28/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.794 ± 0.566 (1.09)**	pCi/L	03/02/23 15:06	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-21I **Lab ID: 92651421007** Collected: 02/07/23 12:48 Received: 02/08/23 09:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.457 ± 0.228 (0.252) C:98% T:NA**	pCi/L	03/02/23 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.07 ± 0.475 (0.795) C:82% T:81%**	pCi/L	02/28/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.53 ± 0.703 (1.05)**	pCi/L	03/02/23 15:06	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-17S **Lab ID: 92651421008** Collected: 02/07/23 11:16 Received: 02/08/23 09:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.135 ± 0.0961 (0.402) C:94% T:NA**	pCi/L	03/02/23 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.367 ± 0.403 (0.846) C:79% T:88%**	pCi/L	02/28/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.367 ± 0.499 (1.25)**	pCi/L	03/02/23 15:06	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-18S **Lab ID: 92651421009** Collected: 02/07/23 13:48 Received: 02/08/23 09:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0706 ± 0.136 (0.314) C:93% T:NA**	pCi/L	03/02/23 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.585 ± 0.433 (0.859) C:80% T:89%**	pCi/L	02/28/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.656 ± 0.569 (1.17)**	pCi/L	03/02/23 15:06	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-18I **Lab ID: 92651421010** Collected: 02/07/23 12:31 Received: 02/08/23 09:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0453 ± 0.136 (0.339) C:87% T:NA**	pCi/L	03/02/23 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.440 ± 0.347 (0.687) C:81% T:91%**	pCi/L	02/28/23 16:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.485 ± 0.483 (1.03)**	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-39 **Lab ID: 92651421011** Collected: 02/07/23 16:15 Received: 02/08/23 09:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.700 ± 0.299 (0.345) C:94% T:NA**	pCi/L	03/02/23 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.707 ± 0.366 (0.629) C:77% T:90%**	pCi/L	02/28/23 16:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.41 ± 0.665 (0.974)**	pCi/L	03/02/23 15:06	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-47 **Lab ID: 92651421012** Collected: 02/08/23 17:02 Received: 02/09/23 12:35 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	**0.146 ± 0.149 (0.267) C:88% T:NA**	pCi/L	03/02/23 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.229 ± 0.339 (0.731) C:71% T:84%**	pCi/L	02/28/23 16:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.375 ± 0.488 (0.998)**	pCi/L	03/02/23 15:06	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-30I **Lab ID: 92651421013** Collected: 02/08/23 15:10 Received: 02/09/23 12:35 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	**-0.00593 ± 0.0878 (0.274) C:92% T:NA**	pCi/L	03/02/23 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.417 ± 0.354 (0.703) C:73% T:89%**	pCi/L	02/28/23 16:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.417 ± 0.442 (0.977)**	pCi/L	03/02/23 15:06	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-14S **Lab ID: 92651421014** Collected: 02/08/23 13:50 Received: 02/09/23 12:35 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	**0.0964 ± 0.190 (0.439) C:85% T:NA**	pCi/L	03/01/23 20:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.734 ± 0.414 (0.749) C:79% T:83%**	pCi/L	02/28/23 16:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.830 ± 0.604 (1.19)**	pCi/L	03/02/23 15:06	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-3I **Lab ID: 92651421015** Collected: 02/08/23 10:00 Received: 02/09/23 12:35 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	**0.402 ± 0.235 (0.311) C:93% T:NA**	pCi/L	03/01/23 20:03	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.775 ± 0.381 (0.638) C:75% T:88%**	pCi/L	02/28/23 16:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.18 ± 0.616 (0.949)**	pCi/L	03/02/23 15:06	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-3D **Lab ID: 92651421016** Collected: 02/08/23 11:40 Received: 02/09/23 12:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**1.02 ± 0.369 (0.322) C:91% T:NA**	pCi/L	03/01/23 20:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.72 ± 0.524 (0.622) C:78% T:92%**	pCi/L	02/28/23 16:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.74 ± 0.893 (0.944)**	pCi/L	03/02/23 15:06	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-40 **Lab ID: 92651421017** Collected: 02/08/23 12:02 Received: 02/09/23 12:35 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	**0.450 ± 0.200 (0.230) C:98% T:NA**	pCi/L	03/03/23 09:54	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.11 ± 0.501 (0.817) C:78% T:85%**	pCi/L	02/28/23 17:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.56 ± 0.701 (1.05)**	pCi/L	03/06/23 14:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-4I **Lab ID: 92651421018** Collected: 02/09/23 09:55 Received: 02/10/23 14:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.698 ± 0.253 (0.228) C:93% T:NA**	pCi/L	03/03/23 09:54	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.419 ± 0.399 (0.815) C:75% T:88%**	pCi/L	02/28/23 17:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.12 ± 0.652 (1.04)**	pCi/L	03/06/23 14:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Sample: YAT-YGWA-5I **Lab ID: 92651421019** Collected: 02/09/23 11:26 Received: 02/10/23 14:00 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0549 ± 0.0861 (0.185) C:94% T:NA**	pCi/L	03/03/23 09:54	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0266 ± 0.380 (0.881) C:78% T:83%**	pCi/L	02/28/23 17:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0815 ± 0.466 (1.07)**	pCi/L	03/06/23 14:37	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

QC Batch: 567031
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92651421001, 92651421002, 92651421003, 92651421004, 92651421005, 92651421006, 92651421007, 92651421008, 92651421009, 92651421010, 92651421011, 92651421012, 92651421013, 92651421014, 92651421015, 92651421016

METHOD BLANK: 2753389
Matrix: Water
Associated Lab Samples: 92651421001, 92651421002, 92651421003, 92651421004, 92651421005, 92651421006, 92651421007, 92651421008, 92651421009, 92651421010, 92651421011, 92651421012, 92651421013, 92651421014, 92651421015, 92651421016

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0316 ± 0.106 (0.272) C:91% T:NA	pCi/L	03/02/23 10:00	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

QC Batch: 567129
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92651421017, 92651421018, 92651421019

METHOD BLANK: 2754449 Matrix: Water
Associated Lab Samples: 92651421017, 92651421018, 92651421019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.353 ± 0.207 (0.369) C:83% T:82%	pCi/L	03/03/23 11:44	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

QC Batch: 567128
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92651421017, 92651421018, 92651421019

METHOD BLANK: 2754448 Matrix: Water
Associated Lab Samples: 92651421017, 92651421018, 92651421019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.113 ± 0.105 (0.185) C:106% T:NA	pCi/L	03/03/23 09:54	

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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(770)734-4200

QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

QC Batch: 567032
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92651421001, 92651421002, 92651421003, 92651421004, 92651421005, 92651421006, 92651421007, 92651421008, 92651421009, 92651421010, 92651421011, 92651421012, 92651421013, 92651421014, 92651421015, 92651421016

METHOD BLANK: 2753395
Matrix: Water
Associated Lab Samples: 92651421001, 92651421002, 92651421003, 92651421004, 92651421005, 92651421006, 92651421007, 92651421008, 92651421009, 92651421010, 92651421011, 92651421012, 92651421013, 92651421014, 92651421015, 92651421016

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.623 ± 0.341 (0.611) C:84% T:91%	pCi/L	02/28/23 12:40	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALIFIERS

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651421001	YAT-YGWA-1I	EPA 9315	567031		
92651421002	YAT-YGWA-1D	EPA 9315	567031		
92651421003	YAT-YGWA-2I	EPA 9315	567031		
92651421004	YAT-GWA-2	EPA 9315	567031		
92651421005	YAT-YGWA-5D	EPA 9315	567031		
92651421006	YAT-YGWA-20S	EPA 9315	567031		
92651421007	YAT-YGWA-21I	EPA 9315	567031		
92651421008	YAT-YGWA-17S	EPA 9315	567031		
92651421009	YAT-YGWA-18S	EPA 9315	567031		
92651421010	YAT-YGWA-18I	EPA 9315	567031		
92651421011	YAT-YGWA-39	EPA 9315	567031		
92651421012	YAT-YGWA-47	EPA 9315	567031		
92651421013	YAT-YGWA-30I	EPA 9315	567031		
92651421014	YAT-YGWA-14S	EPA 9315	567031		
92651421015	YAT-YGWA-3I	EPA 9315	567031		
92651421016	YAT-YGWA-3D	EPA 9315	567031		
92651421017	YAT-YGWA-40	EPA 9315	567128		
92651421018	YAT-YGWA-4I	EPA 9315	567128		
92651421019	YAT-YGWA-5I	EPA 9315	567128		
92651421001	YAT-YGWA-1I	EPA 9320	567032		
92651421002	YAT-YGWA-1D	EPA 9320	567032		
92651421003	YAT-YGWA-2I	EPA 9320	567032		
92651421004	YAT-GWA-2	EPA 9320	567032		
92651421005	YAT-YGWA-5D	EPA 9320	567032		
92651421006	YAT-YGWA-20S	EPA 9320	567032		
92651421007	YAT-YGWA-21I	EPA 9320	567032		
92651421008	YAT-YGWA-17S	EPA 9320	567032		
92651421009	YAT-YGWA-18S	EPA 9320	567032		
92651421010	YAT-YGWA-18I	EPA 9320	567032		
92651421011	YAT-YGWA-39	EPA 9320	567032		
92651421012	YAT-YGWA-47	EPA 9320	567032		
92651421013	YAT-YGWA-30I	EPA 9320	567032		
92651421014	YAT-YGWA-14S	EPA 9320	567032		
92651421015	YAT-YGWA-3I	EPA 9320	567032		
92651421016	YAT-YGWA-3D	EPA 9320	567032		
92651421017	YAT-YGWA-40	EPA 9320	567129		
92651421018	YAT-YGWA-4I	EPA 9320	567129		
92651421019	YAT-YGWA-5I	EPA 9320	567129		
92651421001	YAT-YGWA-1I	Total Radium Calculation	571130		
92651421002	YAT-YGWA-1D	Total Radium Calculation	571130		
92651421003	YAT-YGWA-2I	Total Radium Calculation	571130		
92651421004	YAT-GWA-2	Total Radium Calculation	571130		
92651421005	YAT-YGWA-5D	Total Radium Calculation	571130		
92651421006	YAT-YGWA-20S	Total Radium Calculation	571130		
92651421007	YAT-YGWA-21I	Total Radium Calculation	571130		
92651421008	YAT-YGWA-17S	Total Radium Calculation	571130		
92651421009	YAT-YGWA-18S	Total Radium Calculation	571130		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgrad RADS
Pace Project No.: 92651421

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651421010	**YAT-YGWA-18I**	Total Radium Calculation	571130		
92651421011	**YAT-YGWA-39**	Total Radium Calculation	571130		
92651421012	**YAT-YGWA-47**	Total Radium Calculation	571130		
92651421013	**YAT-YGWA-30I**	Total Radium Calculation	571130		
92651421014	**YAT-YGWA-14S**	Total Radium Calculation	571130		
92651421015	**YAT-YGWA-3I**	Total Radium Calculation	571130		
92651421016	**YAT-YGWA-3D**	Total Radium Calculation	571130		
92651421017	**YAT-YGWA-40**	Total Radium Calculation	571751		
92651421018	**YAT-YGWA-4I**	Total Radium Calculation	571751		
92651421019	**YAT-YGWA-5I**	Total Radium Calculation	571751		

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mech ☐ ☐ ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92651421

92651421

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/8/23 DM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Thermometer: ☑ IR Gun ID: 214

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.7 Correction Factor: Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 4.8

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3R-250 mL Plastic (NH2)2SO4 (9 3-9 7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																		2				
2		2	1			1																		2				
3		2	1			1																		2				
4																								2				
5																												
6																												
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202391	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole D'Olea~~ Boris Uruj
Requested Due Date:	Standard TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651421
1	YAT-YGWA-39	WG	G			--	--		6	3		3						X	X	X	X	X				
2	YAT-YGWA-40	WG	G			--	--		6	3		3						X	X	X	X	X				pH:
3	YAT-YGWA-1I	WG	G	2/7/23	1145	--	--		6	3		3						X	X	X	X	X				pH:
4	YAT-YGWA-1D	WG	G	2/7/23	1340	--	--		6	3		3						X	X	X	X	X				pH: 6.53 001
5	YAT-YGWA-2I	WG	G	2/7/23	1540	--	--		6	3		3						X	X	X	X	X				pH: 7.86 002
6	YAT-YGWA-3I	WG	G			--	--		6	3		3						X	X	X	X	X				pH: 6.94 003
7	YAT-YGWA-3D	WG	G			--	--		6	3		3						X	X	X	X	X				pH:
8						--	--																			pH:
9						--	--																			pH:
10						--	--																			pH:
11						--	--																			pH:
12						--	--																			

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jake Swanson /Arcadis	2/8/23	0800	[illegible] /Arcadis	2/8/23	0800	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	[illegible] /Arcadis	2/8/23	0900	Ryan Williams /Pace	2/9/23	0900	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**	Ryan Williams /Pace	2/9/23	1240				

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:	(Arcadis) - Jake Swanson					
SIGNATURE of SAMPLER:	(Arcadis) - [signature]	DATE Signed: 2/8/23				

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mec ☐ ☐ ☑ ☐

Sample Condition Upon Receipt

WO# : 92651421

PM: BV Due Date: 03/01/23

CLIENT: GA-GA Power

Client Name: GA Power Project #:

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/8/23 CM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Thermometer: ☑ IR Gun ID: 214

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.7 Correction Factor: Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 4.8

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Bottom half of box is to list number of bottles

**Check all unpreserved Nitrates for chlorine

Project #

WO# : 92651421

PM: BV Due Date: 03/01/23

CLIENT: GA-GA Power

Item #	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
		2	1			1 ✓																			2				
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 Of 1

Section A – Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax:
Requested Due Date:	Standard TAT

Section B – Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-2023S1
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C – Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	[illegible] ~~Nicole D'Oleo~~ Bonnie Vang
Pace Profile #:	10840

Regulatory Agency:

State / Location: Georgia

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID – One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gpysum only)	Residual Chlorine (Y/N) 92651421
1	YAT-YGWA-47	WG	G			--	--		6	3		3							X	X	X	X	X		pH: 5.74
2	YAT-GWA-2	WG	G	2/7/23	1148	--	--		6	3		3							X	X	X	X	X	X	pH: 064
3	YAT-YGWA-4I	WG	G			--	--		6	3		3							X	X	X	X	X		pH:
4	YAT-YGWA-5I	WG	G			--	--		6	3		3							X	X	X	X	X		pH:
5	YAT-YGWA-5D	WG	G			--	--		6	3		3							X	X	X	X	X		pH:
6	YAT-YGWA-17S	WG	G			--	--		6	3		3							X	X	X	X	X		pH:
7	YAT-YGWA-18S	WG	G			--	--		6	3		3							X	X	X	X	X		pH:
8	YAT-YGWA-18I	WG	G			--	--		6	3		3							X	X	X	X	X		pH:
9	YAT-YGWA-20S	WG	G			--	--		6	3		3							X	X	X	X	X		pH:
10	YAT-YGWA-21I	WG	G			--	--		6	3		3							X	X	X	X	X		pH:
11	YAT-YGWA-30I	WG	G			--	--		6	3		3							X	X	X	X	X		pH:
12	YAT-YGWA-14S	WG	G			--	--		6	3		3							X	X	X	X	X		pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Mark Chest /Arcadis	2/8/23	0900	Ryan William / Pace	2/8/23	0900	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	Ryan William / Pace	2/9/23	1240				
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Chest - Arcadis

SIGNATURE of SAMPLER: Arcadis [signature] DATE Signed: 2/3/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

Pace	DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt
	Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92651421

PM: BV Due Date: 03/01/23

CLIENT: GA-GA Power

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☑ Pace ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/8/23 DM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.7 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): 4.8

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

WO#: 92651421

PM: BV Due Date: 03/01/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9 3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																							
2		2	1			1																			2				
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Qualtrax ID: 69614

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S1	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole D'Olio~~ Bonnie Young
Requested Due Date:	Std TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Requested Analysis Filtered (Y/N) Y/N	Analyses Test: App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651421
1	YAT-YGWA-47	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
2	YAT-GWA-2	WG	G			--	--		6	3		3							X	X	X	X	X	X		pH:
3	YAT-YGWA-4I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
4	YAT-YGWA-5I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
5	YAT-YGWA-5D	WG	G	2/7/23	1622	--	--		6	3		3							X	X	X	X	X			pH: 6.04 005
6	YAT-YGWA-17S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-18S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
8	YAT-YGWA-18I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
9	YAT-YGWA-20S	WG	G	2/7/23	1450	--	--		6	3		3							X	X	X	X	X			pH: 5.63 006
10	YAT-YGWA-21I	WG	G	2/7/23	1248	--	--		6	3		3							X	X	X	X	X			pH: 6.82 007
11	YAT-YGWA-30I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
12	YAT-YGWA-14S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/8/23	0800		2/8/23	0800
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V		2/8/23	0900	Ryan William / Pace	2/8/23	0960
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**	Ryan William / Pace	2/8/23	1240			

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Kim Lapszynski		
SIGNATURE of SAMPLER:		DATE Signed:	2/8/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/8/23 CM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.7 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): 4.8

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

Qualtrax ID: 69614

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	GP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1 1																		2 2	BP1N			
2		2	1			1 1																		2 2				
3		2	1			1 1																		2 2				
4		2	1			1 1																		2 2				
5																								2				
6																												
7																												
8																												
9																												
10																												
11																												
12																												

pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: 1 of 2

Section A – Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax
Requested Due Date:	Std TAT

Section B – Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-2023S1
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C – Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	~~Nicole D'Oleo~~ Bonnie Yang
Pace Profile #:	10840

Regulatory Agency: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	926S421
1	YAT-YGWA-47	WG	G			--	--		6	3		3						X	X	X	X	X	X			pH:
2	YAT-GWA-2	WG	G			--	--		6	3		3						X	X	X	X	X	X	X		pH:
3	YAT-YGWA-4I	WG	G			--	--		6	3		3						X	X	X	X	X				pH:
4	YAT-YGWA-5I	WG	G			--	--		6	3		3						X	X	X	X	X				pH:
5	YAT-YGWA-5D	WG	G			--	--		6	3		3						X	X	X	X	X				pH:
6	YAT-YGWA-17S	WG	G	2/7/23	1116	--	--		6	3		3						X	X	X	X	X				pH: 5.47 006
7	YAT-YGWA-18S	WG	G	2/7	1348	--	--		6	3		3						X	X	X	X	X				pH: 5.03 009
8	YAT-YGWA-18I	WG	G	2/7	1231	--	--		6	3		3						X	X	X	X	X				pH: 6.00 010
9	YAT-YGWA-20S	WG	G			--	--		6	3		3						X	X	X	X	X				pH:
10	YAT-YGWA-21I	WG	G			--	--		6	3		3						X	X	X	X	X				pH:
11	YAT-YGWA-30I	WG	G			--	--		6	3		3						X	X	X	X	X				pH:
12	YAT-YGWA-14S	WG	G			--	--		6	3		3						X	X	X	X	X				pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/8/23	0800	/AECOM	2/9/23	0800
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	/AECOM	2/9/23	0900	Ryan William /PACE	2/8/23	0900
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**	Ryan William /PACE	2/8/23	1240			

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Jessica Ware - Arcadis

SIGNATURE of SAMPLER: Jessica Ware (Arcadis) DATE Signed: 2/8/23

SAMPLE CONDITIONS			
TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 2 of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S1	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency	
State / Location	Georgia

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique MATRIX: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YAT-YGWA-39	WG	G	2/7	1615	--	--		6	3		3						X	X	X	X	X				pH: 5.49 ok
2	YAT-YGWA-40	WG	G			--	--		6	3		3						X	X	X	X	X				pH:
3	YAT-YGWA-1I	WG	G			--	--		6	3		3						X	X	X	X	X				pH:
4	YAT-YGWA-1D	WG	G			--	--		6	3		3						X	X	X	X	X				pH:
5	YAT-YGWA-2I	WG	G			--	--		6	3		3						X	X	X	X	X				pH:
6	YAT-YGWA-3I	WG	G			--	--		6	3		3						X	X	X	X	X				pH:
7	YAT-YGWA-3D	WG	G			--	--		6	3		3						X	X	X	X	X				pH:
8						--	--																			pH:
9						--	--																			pH:
10						--	--																			pH:
11						--	--																			
12						--	--																			

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware /Arcadis	2/8/23	0800	[signature] 2/8/23	2/8/23	0800	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	[signature] /Arcadis	2/8/23	0800	Ryan William / Pace	2/9/23	0900	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**	Ryan William / Pace	2/8/23	1240				

SAMPLER NAME AND SIGNATURE					
PRINT Name of SAMPLER:	(Arcadis) - Jessica Ware		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SIGNATURE of SAMPLER:	(Arcadis) [signature]	DATE Signed: 2/8/23				

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

March 21, 2023

Ms. Lauren Petty
Southern Company
42 Inverness Center Parkway
Birmingham, AL 35242

RE: Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between February 08, 2023 and February 10, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
(704)875-9092
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR
Lauren Coker, Georgia Pwer
Noelia Gangi, Georgia Power
Geoffrey Gay, ARCADIS - Atlanta
Ben Hodges, Georgia Power-CCR
Kristen Jurinko
Laura Midkiff, Georgia Power
Alex Simpson, Arcadis
Michael Smilley, Georgia Power
Becky Steever, Arcadis
Tina Sullivan, ERM
Jessica Ware, ARCADIS - Atlanta
Albert Zumbuhl, Arcadis

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

CERTIFICATIONS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Pace Analytical Services Charlotte
South Carolina Laboratory ID: 99006
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Laboratory ID: 99006
South Carolina Certification #: 99006001
South Carolina Drinking Water Cert. #: 99006003
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
Louisiana DoH Drinking Water #: LA029
Virginia/VELAP Certification #: 460221

Pace Analytical Services Asheville
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Laboratory ID: 99030
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

Pace Analytical Services Peachtree Corners
110 Technology Pkwy, Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
North Carolina Certification #: 381
South Carolina Certification #: 98011001

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE SUMMARY

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92651382001	**YAT-YGWA-1I**	Water	02/07/23 11:45	02/08/23 09:00
92651382002	**YAT-YGWA-1D**	Water	02/07/23 13:40	02/08/23 09:00
92651382003	**YAT-YGWA-2I**	Water	02/07/23 15:40	02/08/23 09:00
92651382004	**YAT-GWA-2**	Water	02/07/23 11:48	02/08/23 09:00
92651382005	**YAT-YGWA-5D**	Water	02/07/23 16:22	02/08/23 09:00
92651382006	**YAT-YGWA-20S**	Water	02/07/23 14:50	02/08/23 09:00
92651382007	**YAT-YGWA-21I**	Water	02/07/23 12:48	02/08/23 09:00
92651382008	**YAT-YGWA-17S**	Water	02/07/23 11:16	02/08/23 09:00
92651382009	**YAT-YGWA-18S**	Water	02/07/23 13:48	02/08/23 09:00
92651382010	**YAT-YGWA-18I**	Water	02/07/23 12:31	02/08/23 09:00
92651382011	**YAT-YGWA-39**	Water	02/07/23 16:15	02/08/23 09:00
92651382012	**YAT-YGWA-47**	Water	02/08/23 17:02	02/09/23 12:35
92651382013	**YAT-YGWA-30I**	Water	02/08/23 15:10	02/09/23 12:35
92651382014	**YAT-YGWA-14S**	Water	02/08/23 13:50	02/09/23 12:35
92651382015	**YAT-YGWA-3I**	Water	02/08/23 10:00	02/09/23 12:35
92651382016	**YAT-YGWA-3D**	Water	02/08/23 11:40	02/09/23 12:35
92651382017	**YAT-YGWA-40**	Water	02/08/23 12:02	02/09/23 12:35
92651382018	**YAT-YGWA-4I**	Water	02/09/23 09:55	02/10/23 14:00
92651382019	**YAT-YGWA-5I**	Water	02/09/23 11:26	02/10/23 14:00

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92651382001	**YAT-YGWA-1I**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382002	**YAT-YGWA-1D**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382003	**YAT-YGWA-2I**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382004	**YAT-GWA-2**	EPA 6010D	MS	4
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382005	**YAT-YGWA-5D**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382006	**YAT-YGWA-20S**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382007	**YAT-YGWA-21I**	EPA 6010D	MS	4

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382008	**YAT-YGWA-17S**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382009	**YAT-YGWA-18S**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382010	**YAT-YGWA-18I**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382011	**YAT-YGWA-39**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382012	**YAT-YGWA-47**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382013	**YAT-YGWA-30I**	EPA 6010D	MS	4
		EPA 6020B	CW1	13

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382014	**YAT-YGWA-14S**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382015	**YAT-YGWA-3I**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382016	**YAT-YGWA-3D**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382017	**YAT-YGWA-40**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382018	**YAT-YGWA-4I**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651382019	**YAT-YGWA-5I**	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3

PASI-A = Pace Analytical Services - Asheville
PASI-C = Pace Analytical Services - Charlotte
PASI-GA = Pace Analytical Services - Peachtree Corners, GA

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651382001	**YAT-YGWA-1I**					
	Performed by	Client			03/03/23 10:59	
	Collected By	Jake Swanson			03/03/23 10:59	
	Collected Date	02/07/23			03/03/23 10:59	
	Collected Time	11:45			03/03/23 10:59	
	pH	6.53	Std. Units		03/03/23 10:59	
EPA 6010D	Potassium	2.0	mg/L	0.20	02/21/23 16:05	
EPA 6010D	Sodium	5.6	mg/L	1.0	02/21/23 16:05	
EPA 6010D	Calcium	2.2	mg/L	1.0	02/21/23 16:05	
EPA 6010D	Magnesium	1.5	mg/L	0.050	02/21/23 16:05	
EPA 6020B	Barium	0.21	mg/L	0.0050	02/21/23 17:54	
EPA 6020B	Beryllium	0.00054	mg/L	0.00050	02/21/23 17:54	
EPA 6020B	Chromium	0.0013J	mg/L	0.0050	02/21/23 17:54	
EPA 6020B	Cobalt	0.0048J	mg/L	0.0050	02/21/23 17:54	
EPA 6020B	Lithium	0.0029J	mg/L	0.030	02/21/23 17:54	
SM 2540C-2015	Total Dissolved Solids	121	mg/L	25.0	02/10/23 20:18	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	20.4	mg/L	5.0	02/15/23 17:28	
SM 2320B-2011	Alkalinity, Total as CaCO3	20.4	mg/L	5.0	02/15/23 17:28	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	02/10/23 21:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.071J	mg/L	0.10	02/10/23 21:29	
EPA 300.0 Rev 2.1 1993	Sulfate	6.6	mg/L	1.0	02/10/23 21:29	
92651382002	**YAT-YGWA-1D**					
	Performed by	Client			03/03/23 11:00	
	Collected By	Jake Swanson			03/03/23 11:00	
	Collected Date	02/07/23			03/03/23 11:00	
	Collected Time	13:40			03/03/23 11:00	
	pH	7.86	Std. Units		03/03/23 11:00	
EPA 6010D	Potassium	4.8	mg/L	0.20	02/21/23 16:10	
EPA 6010D	Sodium	11.5	mg/L	1.0	02/21/23 16:10	
EPA 6010D	Calcium	15.0	mg/L	1.0	02/21/23 16:10	
EPA 6010D	Magnesium	1.9	mg/L	0.050	02/21/23 16:10	
EPA 6020B	Barium	0.14	mg/L	0.0050	02/21/23 18:00	
EPA 6020B	Beryllium	0.0011	mg/L	0.00050	02/21/23 18:00	
EPA 6020B	Cobalt	0.00097J	mg/L	0.0050	02/21/23 18:00	
EPA 6020B	Lithium	0.0060J	mg/L	0.030	02/21/23 18:00	
SM 2540C-2015	Total Dissolved Solids	131	mg/L	25.0	02/10/23 20:18	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	65.4	mg/L	5.0	02/15/23 17:46	
SM 2320B-2011	Alkalinity, Total as CaCO3	65.4	mg/L	5.0	02/15/23 17:46	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	02/10/23 21:44	
EPA 300.0 Rev 2.1 1993	Fluoride	0.093J	mg/L	0.10	02/10/23 21:44	
EPA 300.0 Rev 2.1 1993	Sulfate	10.6	mg/L	1.0	02/10/23 21:44	
92651382003	**YAT-YGWA-2I**					
	Performed by	Client			03/03/23 11:00	
	Collected By	Jake Swanson			03/03/23 11:00	
	Collected Date	02/07/23			03/03/23 11:00	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651382003	**YAT-YGWA-2I**					
	Collected Time	15:40			03/03/23 11:00	
	pH	6.94	Std. Units		03/03/23 11:00	
EPA 6010D	Potassium	5.1	mg/L	0.20	02/21/23 16:15	
EPA 6010D	Sodium	9.0	mg/L	1.0	02/21/23 16:15	M1
EPA 6010D	Calcium	25.6	mg/L	1.0	02/21/23 16:15	M1
EPA 6010D	Magnesium	4.1	mg/L	0.050	02/21/23 16:15	
EPA 6020B	Barium	0.0026J	mg/L	0.0050	02/21/23 18:06	
EPA 6020B	Lithium	0.0047J	mg/L	0.030	02/21/23 18:06	
EPA 6020B	Molybdenum	0.0061J	mg/L	0.010	02/21/23 18:06	
SM 2540C-2015	Total Dissolved Solids	159	mg/L	25.0	02/10/23 20:18	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	87.6	mg/L	5.0	02/15/23 18:36	
SM 2320B-2011	Alkalinity, Total as CaCO3	87.6	mg/L	5.0	02/15/23 18:36	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	02/10/23 21:59	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	02/10/23 21:59	
EPA 300.0 Rev 2.1 1993	Sulfate	17.8	mg/L	1.0	02/10/23 21:59	
92651382004	**YAT-GWA-2**					
	Performed by	Client			03/03/23 11:01	
	Collected By	Jake Swanson			03/03/23 11:01	
	Collected Date	02/07/23			03/03/23 11:01	
	Collected Time	11:48			03/03/23 11:01	
	pH	5.94	Std. Units		03/03/23 11:01	
EPA 6010D	Potassium	9.5	mg/L	0.20	02/21/23 17:00	
EPA 6010D	Sodium	8.1	mg/L	1.0	02/21/23 17:00	
EPA 6010D	Calcium	22.3	mg/L	1.0	02/21/23 17:00	
EPA 6010D	Magnesium	19.3	mg/L	0.050	02/21/23 17:00	
EPA 6020B	Barium	0.034	mg/L	0.0050	02/21/23 18:12	
EPA 6020B	Cadmium	0.00012J	mg/L	0.00050	02/21/23 18:12	
EPA 6020B	Cobalt	0.034	mg/L	0.0050	02/21/23 18:12	
EPA 6020B	Lithium	0.0022J	mg/L	0.030	02/21/23 18:12	
EPA 6020B	Nickel	0.0096	mg/L	0.0050	02/21/23 18:12	
EPA 6020B	Zinc	0.0072J	mg/L	0.010	02/21/23 18:12	
EPA 7470A	Mercury	0.00013J	mg/L	0.00020	02/24/23 12:03	
SM 2540C-2015	Total Dissolved Solids	207	mg/L	25.0	02/10/23 20:18	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	62.4	mg/L	5.0	02/15/23 18:45	
SM 2320B-2011	Alkalinity, Total as CaCO3	62.4	mg/L	5.0	02/15/23 18:45	
EPA 300.0 Rev 2.1 1993	Chloride	6.1	mg/L	1.0	02/10/23 22:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.095J	mg/L	0.10	02/10/23 22:14	
EPA 300.0 Rev 2.1 1993	Sulfate	82.4	mg/L	1.0	02/10/23 22:14	
92651382005	**YAT-YGWA-5D**					
	Performed by	Client			03/03/23 11:05	
	Collected By	Jake Swanson			03/03/23 11:05	
	Collected Date	02/07/23			03/03/23 11:05	
	Collected Time	16:22			03/03/23 11:05	
	pH	6.64	Std. Units		03/03/23 11:05	
EPA 6010D	Potassium	3.7	mg/L	0.20	02/21/23 17:05	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651382005	**YAT-YGWA-5D**					
EPA 6010D	Sodium	9.7	mg/L	1.0	02/21/23 17:05	
EPA 6010D	Calcium	26.6	mg/L	1.0	02/21/23 17:05	
EPA 6010D	Magnesium	4.6	mg/L	0.050	02/21/23 17:05	
EPA 6020B	Arsenic	0.0030J	mg/L	0.0050	02/21/23 18:18	
EPA 6020B	Barium	0.0075	mg/L	0.0050	02/21/23 18:18	
EPA 6020B	Lithium	0.0059J	mg/L	0.030	02/21/23 18:18	
EPA 6020B	Molybdenum	0.00095J	mg/L	0.010	02/21/23 18:18	
SM 2540C-2015	Total Dissolved Solids	180	mg/L	25.0	02/10/23 20:19	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	96.5	mg/L	5.0	02/15/23 18:52	
SM 2320B-2011	Alkalinity, Total as CaCO3	96.5	mg/L	5.0	02/15/23 18:52	
EPA 300.0 Rev 2.1 1993	Chloride	3.3	mg/L	1.0	02/10/23 22:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.082J	mg/L	0.10	02/10/23 22:29	
EPA 300.0 Rev 2.1 1993	Sulfate	5.2	mg/L	1.0	02/10/23 22:29	
92651382006	**YAT-YGWA-20S**					
	Performed by	Client			03/03/23 11:05	
	Collected By	Jake Swanson			03/03/23 11:05	
	Collected Date	02/07/23			03/03/23 11:05	
	Collected Time	14:50			03/03/23 11:05	
	pH	5.63	Std. Units		03/03/23 11:05	
EPA 6010D	Potassium	0.55	mg/L	0.20	02/21/23 17:10	
EPA 6010D	Sodium	8.7	mg/L	1.0	02/21/23 17:10	
EPA 6010D	Calcium	2.4	mg/L	1.0	02/21/23 17:10	
EPA 6010D	Magnesium	0.58	mg/L	0.050	02/21/23 17:10	
EPA 6020B	Barium	0.014	mg/L	0.0050	02/21/23 18:24	
EPA 6020B	Beryllium	0.000074J	mg/L	0.00050	02/21/23 18:24	
EPA 7470A	Mercury	0.00015J	mg/L	0.00020	02/24/23 12:08	
SM 2540C-2015	Total Dissolved Solids	89.0	mg/L	25.0	02/10/23 20:19	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	23.3	mg/L	5.0	02/15/23 19:00	
SM 2320B-2011	Alkalinity, Total as CaCO3	23.3	mg/L	5.0	02/15/23 19:00	
EPA 300.0 Rev 2.1 1993	Chloride	2.9	mg/L	1.0	02/10/23 23:14	
92651382007	**YAT-YGWA-21I**					
	Performed by	Client			03/03/23 11:06	
	Collected By	Jake Swanson			03/03/23 11:06	
	Collected Date	02/07/23			03/03/23 11:06	
	Collected Time	12:48			03/03/23 11:06	
	pH	6.82	Std. Units		03/03/23 11:06	
EPA 6010D	Potassium	3.2	mg/L	0.20	02/21/23 17:14	
EPA 6010D	Sodium	20.4	mg/L	1.0	02/21/23 17:14	
EPA 6010D	Calcium	7.5	mg/L	1.0	02/21/23 17:14	
EPA 6010D	Magnesium	3.9	mg/L	0.050	02/21/23 17:14	
EPA 6020B	Arsenic	0.0028J	mg/L	0.0050	02/21/23 18:30	
EPA 6020B	Barium	0.010	mg/L	0.0050	02/21/23 18:30	
EPA 6020B	Cadmium	0.00012J	mg/L	0.00050	02/21/23 18:30	
EPA 6020B	Cobalt	0.014	mg/L	0.0050	02/21/23 18:30	
EPA 6020B	Lithium	0.0059J	mg/L	0.030	02/21/23 18:30	

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651382007	**YAT-YGWA-21I**					
EPA 7470A	Mercury	0.00017J	mg/L	0.00020	02/24/23 12:11	
SM 2540C-2015	Total Dissolved Solids	163	mg/L	25.0	02/10/23 20:19	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	78.4	mg/L	5.0	02/15/23 19:06	
SM 2320B-2011	Alkalinity, Total as CaCO3	78.4	mg/L	5.0	02/15/23 19:06	
EPA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	02/10/23 23:28	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	02/10/23 23:28	
EPA 300.0 Rev 2.1 1993	Sulfate	3.8	mg/L	1.0	02/10/23 23:28	
92651382008	**YAT-YGWA-17S**					
	Performed by	Client			03/03/23 11:12	
	Collected By	Jake Swanson			03/03/23 11:12	
	Collected Date	02/07/23			03/03/23 11:12	
	Collected Time	11:16			03/03/23 11:12	
	pH	5.47	Std. Units		03/03/23 11:12	
EPA 6010D	Potassium	0.41	mg/L	0.20	02/22/23 15:47	
EPA 6010D	Sodium	14.2	mg/L	1.0	02/21/23 17:19	
EPA 6010D	Calcium	2.9	mg/L	1.0	02/21/23 17:19	
EPA 6010D	Magnesium	0.98	mg/L	0.050	02/21/23 17:19	
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	02/21/23 19:05	
EPA 6020B	Barium	0.017	mg/L	0.0050	02/21/23 19:05	
EPA 6020B	Beryllium	0.000096J	mg/L	0.00050	02/21/23 19:05	
EPA 6020B	Boron	0.014J	mg/L	0.040	02/21/23 19:05	
EPA 7470A	Mercury	0.00018J	mg/L	0.00020	02/24/23 12:13	
SM 2540C-2015	Total Dissolved Solids	78.0	mg/L	25.0	02/13/23 11:02	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	15.6	mg/L	5.0	02/15/23 19:14	
SM 2320B-2011	Alkalinity, Total as CaCO3	15.6	mg/L	5.0	02/15/23 19:14	
EPA 300.0 Rev 2.1 1993	Chloride	11.4	mg/L	1.0	02/10/23 23:43	
EPA 300.0 Rev 2.1 1993	Sulfate	4.9	mg/L	1.0	02/10/23 23:43	
92651382009	**YAT-YGWA-18S**					
	Performed by	Client			03/03/23 11:14	
	Collected By	Jake Swanson			03/03/23 11:14	
	Collected Date	02/07/23			03/03/23 11:14	
	Collected Time	13:48			03/03/23 11:14	
	pH	5.03	Std. Units		03/03/23 11:14	
EPA 6010D	Sodium	7.8	mg/L	1.0	02/21/23 17:24	
EPA 6010D	Calcium	0.79J	mg/L	1.0	02/21/23 17:24	
EPA 6010D	Magnesium	0.91	mg/L	0.050	02/21/23 17:24	
EPA 6010D	Potassium	0.50	mg/L	0.20	02/22/23 15:52	
EPA 6020B	Barium	0.012	mg/L	0.0050	02/21/23 19:11	
EPA 6020B	Beryllium	0.000071J	mg/L	0.00050	02/21/23 19:11	
EPA 6020B	Chromium	0.0016J	mg/L	0.0050	02/21/23 19:11	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	02/21/23 19:11	
EPA 7470A	Mercury	0.00017J	mg/L	0.00020	02/24/23 12:16	
SM 2540C-2015	Total Dissolved Solids	55.0	mg/L	25.0	02/13/23 11:02	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	9.3	mg/L	5.0	02/15/23 19:20	
SM 2320B-2011	Alkalinity, Total as CaCO3	9.3	mg/L	5.0	02/15/23 19:20	

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651382009	**YAT-YGWA-18S**					
EPA 300.0 Rev 2.1 1993	Chloride	6.4	mg/L	1.0	02/10/23 23:58	
EPA 300.0 Rev 2.1 1993	Sulfate	1.2	mg/L	1.0	02/10/23 23:58	
92651382010	**YAT-YGWA-18I**					
	Performed by	Client			03/03/23 11:16	
	Collected By	Jake Swanson			03/03/23 11:16	
	Collected Date	02/07/23			03/03/23 11:16	
	Collected Time	12:31			03/03/23 11:16	
	pH	6.00	Std. Units		03/03/23 11:16	
EPA 6010D	Potassium	0.96	mg/L	0.20	02/21/23 17:29	
EPA 6010D	Sodium	12.6	mg/L	1.0	02/21/23 17:29	
EPA 6010D	Calcium	5.5	mg/L	1.0	02/21/23 17:29	
EPA 6010D	Magnesium	3.1	mg/L	0.050	02/21/23 17:29	
EPA 6020B	Barium	0.019	mg/L	0.0050	02/21/23 19:17	
EPA 6020B	Lithium	0.0030J	mg/L	0.030	02/21/23 19:17	
EPA 7470A	Mercury	0.00013J	mg/L	0.00020	02/24/23 12:18	
SM 2540C-2015	Total Dissolved Solids	96.0	mg/L	25.0	02/13/23 11:02	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	36.0	mg/L	5.0	02/15/23 19:34	
SM 2320B-2011	Alkalinity, Total as CaCO3	36.0	mg/L	5.0	02/15/23 19:34	
EPA 300.0 Rev 2.1 1993	Chloride	7.4	mg/L	1.0	02/11/23 00:13	
EPA 300.0 Rev 2.1 1993	Sulfate	0.78J	mg/L	1.0	02/11/23 00:13	
92651382011	**YAT-YGWA-39**					
	Performed by	Client			03/03/23 11:17	
	Collected By	Jake Swanson			03/03/23 11:17	
	Collected Date	02/07/23			03/03/23 11:17	
	Collected Time	16:15			03/03/23 11:17	
	pH	5.49	Std. Units		03/03/23 11:17	
EPA 6010D	Potassium	6.6	mg/L	0.20	02/21/23 17:34	
EPA 6010D	Sodium	28.1	mg/L	1.0	02/21/23 17:34	
EPA 6010D	Calcium	16.1	mg/L	1.0	02/21/23 17:34	
EPA 6010D	Magnesium	21.7	mg/L	0.050	02/21/23 17:34	
EPA 6020B	Arsenic	0.0029J	mg/L	0.0050	02/21/23 19:23	
EPA 6020B	Barium	0.030	mg/L	0.0050	02/21/23 19:23	
EPA 6020B	Boron	0.13	mg/L	0.040	02/21/23 19:23	
EPA 6020B	Cadmium	0.00014J	mg/L	0.00050	02/21/23 19:23	
EPA 6020B	Cobalt	0.00066J	mg/L	0.0050	02/21/23 19:23	
EPA 6020B	Lithium	0.0065J	mg/L	0.030	02/21/23 19:23	
EPA 6020B	Molybdenum	0.0045J	mg/L	0.010	02/21/23 19:23	
SM 2540C-2015	Total Dissolved Solids	224	mg/L	25.0	02/13/23 11:02	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	177	mg/L	5.0	02/15/23 19:41	
SM 2320B-2011	Alkalinity, Total as CaCO3	177	mg/L	5.0	02/15/23 19:41	
EPA 300.0 Rev 2.1 1993	Chloride	5.6	mg/L	1.0	02/11/23 00:58	
EPA 300.0 Rev 2.1 1993	Fluoride	0.076J	mg/L	0.10	02/11/23 00:58	
EPA 300.0 Rev 2.1 1993	Sulfate	9.7	mg/L	1.0	02/11/23 00:58	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651382012	**YAT-YGWA-47**					
	Performed by	Client			03/03/23 14:32	
	Collected By	Jake Swanson			03/03/23 14:32	
	Collected Date	02/08/23			03/03/23 14:32	
	Collected Time	17:02			03/03/23 14:32	
	pH	5.22	Std. Units		03/03/23 14:32	
EPA 6010D	Potassium	3.7	mg/L	0.20	02/21/23 17:39	
EPA 6010D	Sodium	11.4	mg/L	1.0	02/21/23 17:39	
EPA 6010D	Calcium	9.2	mg/L	1.0	02/21/23 17:39	
EPA 6010D	Magnesium	10	mg/L	0.050	02/21/23 17:39	
EPA 6020B	Barium	0.031	mg/L	0.0050	02/21/23 19:29	
EPA 6020B	Boron	0.011J	mg/L	0.040	02/21/23 19:29	
EPA 6020B	Cadmium	0.00032J	mg/L	0.00050	02/21/23 19:29	
EPA 6020B	Cobalt	0.0011J	mg/L	0.0050	02/21/23 19:29	
EPA 6020B	Lithium	0.0037J	mg/L	0.030	02/21/23 19:29	
SM 2540C-2015	Total Dissolved Solids	141	mg/L	25.0	02/14/23 12:04	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	37.8	mg/L	5.0	02/17/23 13:25	
SM 2320B-2011	Alkalinity, Total as CaCO3	37.8	mg/L	5.0	02/17/23 13:25	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	02/14/23 05:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.077J	mg/L	0.10	02/14/23 05:10	
EPA 300.0 Rev 2.1 1993	Sulfate	50.5	mg/L	1.0	02/14/23 05:10	
92651382013	**YAT-YGWA-30I**					
	Performed by	Client			03/03/23 14:39	
	Collected By	Jake Swanson			03/03/23 14:39	
	Collected Date	02/08/23			03/03/23 14:39	
	Collected Time	15:10			03/03/23 14:39	
	pH	6.43	Std. Units		03/03/23 14:39	
EPA 6010D	Potassium	0.55	mg/L	0.20	02/21/23 17:44	
EPA 6010D	Sodium	6.0	mg/L	1.0	02/21/23 17:44	
EPA 6010D	Calcium	1.3	mg/L	1.0	02/21/23 17:44	
EPA 6010D	Magnesium	0.92	mg/L	0.050	02/21/23 17:44	
EPA 6020B	Barium	0.0066	mg/L	0.0050	02/21/23 19:35	
EPA 6020B	Chromium	0.0021J	mg/L	0.0050	02/21/23 19:35	
EPA 6020B	Cobalt	0.0031J	mg/L	0.0050	02/21/23 19:35	
EPA 6020B	Lithium	0.0011J	mg/L	0.030	02/21/23 19:35	
SM 2540C-2015	Total Dissolved Solids	43.0	mg/L	25.0	02/14/23 12:05	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	15.4	mg/L	5.0	02/17/23 13:32	
SM 2320B-2011	Alkalinity, Total as CaCO3	15.4	mg/L	5.0	02/17/23 13:32	
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	02/14/23 05:25	
EPA 300.0 Rev 2.1 1993	Fluoride	0.064J	mg/L	0.10	02/14/23 05:25	
EPA 300.0 Rev 2.1 1993	Sulfate	0.96J	mg/L	1.0	02/14/23 05:25	
92651382014	**YAT-YGWA-14S**					
	Performed by	Client			03/03/23 14:54	
	Collected By	Jake Swanson			03/03/23 14:54	
	Collected Date	02/08/23			03/03/23 14:54	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651382014	**YAT-YGWA-14S**					
	Collected Time	13:50			03/03/23 14:54	
	pH	5.39	Std. Units		03/03/23 14:54	
EPA 6010D	Potassium	0.87	mg/L	0.20	02/21/23 17:58	
EPA 6010D	Sodium	9.5	mg/L	1.0	02/21/23 17:58	
EPA 6010D	Calcium	1.5	mg/L	1.0	02/21/23 17:58	
EPA 6010D	Magnesium	1.6	mg/L	0.050	02/21/23 17:58	
EPA 6020B	Barium	0.0089	mg/L	0.0050	02/21/23 19:41	
EPA 6020B	Beryllium	0.00022J	mg/L	0.00050	02/21/23 19:41	
EPA 6020B	Boron	0.015J	mg/L	0.040	02/21/23 19:41	
SM 2540C-2015	Total Dissolved Solids	56.0	mg/L	25.0	02/14/23 12:06	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	13.0	mg/L	5.0	02/17/23 13:37	
SM 2320B-2011	Alkalinity, Total as CaCO3	13.0	mg/L	5.0	02/17/23 13:37	
EPA 300.0 Rev 2.1 1993	Chloride	4.9	mg/L	1.0	02/14/23 05:40	
EPA 300.0 Rev 2.1 1993	Fluoride	0.059J	mg/L	0.10	02/14/23 05:40	
EPA 300.0 Rev 2.1 1993	Sulfate	6.1	mg/L	1.0	02/14/23 05:40	
92651382015	**YAT-YGWA-3I**					
	Performed by	Client			03/03/23 14:55	
	Collected By	Jake Swanson			03/03/23 14:55	
	Collected Date	02/08/23			03/03/23 14:55	
	Collected Time	10:00			03/03/23 14:55	
	pH	7.73	Std. Units		03/03/23 14:55	
EPA 6010D	Potassium	5.3	mg/L	0.20	02/21/23 18:03	
EPA 6010D	Sodium	9.4	mg/L	1.0	02/21/23 18:03	
EPA 6010D	Calcium	23.3	mg/L	1.0	02/21/23 18:03	
EPA 6010D	Magnesium	5.4	mg/L	0.050	02/21/23 18:03	
EPA 6020B	Arsenic	0.0024J	mg/L	0.0050	02/21/23 19:47	
EPA 6020B	Barium	0.0029J	mg/L	0.0050	02/21/23 19:47	
EPA 6020B	Cadmium	0.00013J	mg/L	0.00050	02/21/23 19:47	
EPA 6020B	Lithium	0.018J	mg/L	0.030	02/21/23 19:47	
EPA 6020B	Molybdenum	0.0065J	mg/L	0.010	02/21/23 19:47	
SM 2540C-2015	Total Dissolved Solids	145	mg/L	25.0	02/14/23 12:07	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	92.2	mg/L	5.0	02/17/23 13:43	
SM 2320B-2011	Alkalinity, Total as CaCO3	92.2	mg/L	5.0	02/17/23 13:43	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	02/14/23 06:25	
EPA 300.0 Rev 2.1 1993	Fluoride	0.16	mg/L	0.10	02/14/23 06:25	
EPA 300.0 Rev 2.1 1993	Sulfate	14.7	mg/L	1.0	02/14/23 06:25	
92651382016	**YAT-YGWA-3D**					
	Performed by	Client			03/03/23 14:56	
	Collected By	Jake Swanson			03/03/23 14:56	
	Collected Date	02/08/23			03/03/23 14:56	
	Collected Time	11:40			03/03/23 14:56	
	pH	7.88	Std. Units		03/03/23 14:56	
EPA 6010D	Potassium	3.5	mg/L	0.20	02/21/23 18:08	
EPA 6010D	Sodium	9.9	mg/L	1.0	02/21/23 18:08	
EPA 6010D	Calcium	28.9	mg/L	1.0	02/21/23 18:08	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651382016	**YAT-YGWA-3D**					
EPA 6010D	Magnesium	3.6	mg/L	0.050	02/21/23 18:08	
EPA 6020B	Arsenic	0.0030J	mg/L	0.0050	02/21/23 20:05	
EPA 6020B	Barium	0.0048J	mg/L	0.0050	02/21/23 20:05	
EPA 6020B	Lithium	0.023J	mg/L	0.030	02/21/23 20:05	
EPA 6020B	Molybdenum	0.012	mg/L	0.010	02/21/23 20:05	
SM 2540C-2015	Total Dissolved Solids	144	mg/L	25.0	02/14/23 12:07	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	106	mg/L	5.0	02/17/23 13:51	
SM 2320B-2011	Alkalinity, Total as CaCO3	106	mg/L	5.0	02/17/23 13:51	
EPA 300.0 Rev 2.1 1993	Chloride	1.2	mg/L	1.0	02/14/23 07:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.56	mg/L	0.10	02/14/23 07:10	
EPA 300.0 Rev 2.1 1993	Sulfate	7.5	mg/L	1.0	02/14/23 07:10	
92651382017	**YAT-YGWA-40**					
	Performed by	Client			03/03/23 14:57	
	Collected By	Jake Swanson			03/03/23 14:57	
	Collected Date	02/08/23			03/03/23 14:57	
	Collected Time	12:02			03/03/23 14:57	
	pH	5.71	Std. Units		03/03/23 14:57	
EPA 6010D	Potassium	2.2	mg/L	0.20	02/21/23 18:12	
EPA 6010D	Sodium	10.1	mg/L	1.0	02/21/23 18:12	
EPA 6010D	Calcium	5.9	mg/L	1.0	02/21/23 18:12	
EPA 6010D	Magnesium	3.4	mg/L	0.050	02/21/23 18:12	
EPA 6020B	Barium	0.037	mg/L	0.0050	02/21/23 20:11	
EPA 6020B	Beryllium	0.00026J	mg/L	0.00050	02/21/23 20:11	
EPA 6020B	Boron	0.057	mg/L	0.040	02/21/23 20:11	
EPA 6020B	Lithium	0.00074J	mg/L	0.030	02/21/23 20:11	
SM 2540C-2015	Total Dissolved Solids	115	mg/L	25.0	02/14/23 12:08	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	27.6	mg/L	5.0	02/17/23 14:09	
SM 2320B-2011	Alkalinity, Total as CaCO3	27.6	mg/L	5.0	02/17/23 14:09	
EPA 300.0 Rev 2.1 1993	Chloride	6.9	mg/L	1.0	02/14/23 08:10	
EPA 300.0 Rev 2.1 1993	Sulfate	17.5	mg/L	1.0	02/14/23 08:10	
92651382018	**YAT-YGWA-4I**					
	Performed by	Client			03/03/23 14:57	
	Collected By	Jake Swanson			03/03/23 14:57	
	Collected Date	02/09/23			03/03/23 14:57	
	Collected Time	09:55			03/03/23 14:57	
	pH	6.23	Std. Units		03/03/23 14:57	
EPA 6010D	Potassium	4.1	mg/L	0.20	02/21/23 18:17	
EPA 6010D	Sodium	9.9	mg/L	1.0	02/21/23 18:17	
EPA 6010D	Calcium	9.6	mg/L	1.0	02/21/23 18:17	
EPA 6010D	Magnesium	5.3	mg/L	0.050	02/21/23 18:17	
EPA 6020B	Barium	0.014	mg/L	0.0050	02/21/23 20:17	
EPA 6020B	Lithium	0.014J	mg/L	0.030	02/21/23 20:17	
SM 2540C-2015	Total Dissolved Solids	124	mg/L	25.0	02/15/23 18:40	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	57.7	mg/L	5.0	02/17/23 18:12	
SM 2320B-2011	Alkalinity, Total as CaCO3	57.7	mg/L	5.0	02/17/23 18:12	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92651382018	**YAT-YGWA-4I**					
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	02/14/23 21:36	
EPA 300.0 Rev 2.1 1993	Fluoride	0.067J	mg/L	0.10	02/14/23 21:36	
EPA 300.0 Rev 2.1 1993	Sulfate	8.9	mg/L	1.0	02/14/23 21:36	
92651382019	**YAT-YGWA-5I**					
	Performed by	Client			03/03/23 14:58	
	Collected By	Jake Swanson			03/03/23 14:58	
	Collected Date	02/09/23			03/03/23 14:58	
	Collected Time	11:26			03/03/23 14:58	
	pH	5.90	Std. Units		03/03/23 14:58	
EPA 6010D	Potassium	1.6	mg/L	0.20	02/21/23 18:22	
EPA 6010D	Sodium	10.8	mg/L	1.0	02/21/23 18:22	
EPA 6010D	Calcium	2.8	mg/L	1.0	02/21/23 18:22	
EPA 6010D	Magnesium	2.7	mg/L	0.050	02/21/23 18:22	
EPA 6020B	Barium	0.019	mg/L	0.0050	02/21/23 20:23	
EPA 6020B	Chromium	0.0012J	mg/L	0.0050	02/21/23 20:23	
EPA 6020B	Lithium	0.0036J	mg/L	0.030	02/21/23 20:23	
SM 2540C-2015	Total Dissolved Solids	59.0	mg/L	25.0	02/15/23 18:40	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	26.4	mg/L	5.0	02/17/23 18:31	
SM 2320B-2011	Alkalinity, Total as CaCO3	26.4	mg/L	5.0	02/17/23 18:31	
EPA 300.0 Rev 2.1 1993	Chloride	5.0	mg/L	1.0	02/14/23 21:51	
EPA 300.0 Rev 2.1 1993	Sulfate	2.9	mg/L	1.0	02/14/23 21:51	

Pace Analytical Services, LLC
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ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-1I **Lab ID: 92651382001** Collected: 02/07/23 11:45 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 10:59		
Collected By	**Jake Swanson**				1		03/03/23 10:59		
Collected Date	**02/07/23**				1		03/03/23 10:59		
Collected Time	**11:45**				1		03/03/23 10:59		
pH	**6.53**	Std. Units			1		03/03/23 10:59		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**2.0**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 16:05	7440-09-7	
Sodium	**5.6**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 16:05	7440-23-5	
Calcium	**2.2**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 16:05	7440-70-2	
Magnesium	**1.5**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 16:05	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	02/20/23 17:00	02/21/23 17:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 17:54	7440-38-2	
Barium	**0.21**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 17:54	7440-39-3	
Beryllium	**0.00054**	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 17:54	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 17:54	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 17:54	7440-43-9	
Chromium	**0.0013J**	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 17:54	7440-47-3	
Cobalt	**0.0048J**	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 17:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 17:54	7439-92-1	
Lithium	**0.0029J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 17:54	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 17:54	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 17:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 17:54	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 11:49	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**121**	mg/L	25.0	25.0	1		02/10/23 20:18		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**20.4**	mg/L	5.0	5.0	1		02/15/23 17:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 17:28		
Alkalinity, Total as CaCO3	**20.4**	mg/L	5.0	5.0	1		02/15/23 17:28		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-1I **Lab ID: 92651382001** Collected: 02/07/23 11:45 Received: 02/08/23 09:00 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								
Chloride	**1.5**	mg/L	1.0	0.60	1		02/10/23 21:29	16887-00-6	
Fluoride	**0.071J**	mg/L	0.10	0.050	1		02/10/23 21:29	16984-48-8	
Sulfate	**6.6**	mg/L	1.0	0.50	1		02/10/23 21:29	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-1D **Lab ID: 92651382002** Collected: 02/07/23 13:40 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 11:00		
Collected By	**Jake Swanson**				1		03/03/23 11:00		
Collected Date	**02/07/23**				1		03/03/23 11:00		
Collected Time	**13:40**				1		03/03/23 11:00		
pH	**7.86**	Std. Units			1		03/03/23 11:00		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**4.8**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 16:10	7440-09-7	
Sodium	**11.5**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 16:10	7440-23-5	
Calcium	**15.0**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 16:10	7440-70-2	
Magnesium	**1.9**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 16:10	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	02/20/23 17:00	02/21/23 18:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 18:00	7440-38-2	
Barium	**0.14**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 18:00	7440-39-3	
Beryllium	**0.0011**	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 18:00	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 18:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 18:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 18:00	7440-47-3	
Cobalt	**0.00097J**	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 18:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 18:00	7439-92-1	
Lithium	**0.0060J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 18:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 18:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 18:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 18:00	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 11:52	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**131**	mg/L	25.0	25.0	1		02/10/23 20:18		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**65.4**	mg/L	5.0	5.0	1		02/15/23 17:46		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 17:46		
Alkalinity, Total as CaCO3	**65.4**	mg/L	5.0	5.0	1		02/15/23 17:46		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-1D **Lab ID: 92651382002** Collected: 02/07/23 13:40 Received: 02/08/23 09:00 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								
Chloride	**1.3**	mg/L	1.0	0.60	1		02/10/23 21:44	16887-00-6	
Fluoride	**0.093J**	mg/L	0.10	0.050	1		02/10/23 21:44	16984-48-8	
Sulfate	**10.6**	mg/L	1.0	0.50	1		02/10/23 21:44	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-2I **Lab ID: 92651382003** Collected: 02/07/23 15:40 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 11:00		
Collected By	**Jake Swanson**				1		03/03/23 11:00		
Collected Date	**02/07/23**				1		03/03/23 11:00		
Collected Time	**15:40**				1		03/03/23 11:00		
pH	**6.94**	Std. Units			1		03/03/23 11:00		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**5.1**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 16:15	7440-09-7	
Sodium	**9.0**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 16:15	7440-23-5	M1
Calcium	**25.6**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 16:15	7440-70-2	M1
Magnesium	**4.1**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 16:15	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	02/20/23 17:00	02/21/23 18:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 18:06	7440-38-2	
Barium	**0.0026J**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 18:06	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 18:06	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 18:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 18:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 18:06	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 18:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 18:06	7439-92-1	
Lithium	**0.0047J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 18:06	7439-93-2	
Molybdenum	**0.0061J**	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 18:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 18:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 18:06	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 11:55	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**159**	mg/L	25.0	25.0	1		02/10/23 20:18		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**87.6**	mg/L	5.0	5.0	1		02/15/23 18:36		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 18:36		
Alkalinity, Total as CaCO3	**87.6**	mg/L	5.0	5.0	1		02/15/23 18:36		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-2I **Lab ID: 92651382003** Collected: 02/07/23 15:40 Received: 02/08/23 09:00 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								
Chloride	**1.1**	mg/L	1.0	0.60	1		02/10/23 21:59	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		02/10/23 21:59	16984-48-8	
Sulfate	**17.8**	mg/L	1.0	0.50	1		02/10/23 21:59	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-GWA-2 **Lab ID: 92651382004** Collected: 02/07/23 11:48 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 11:01		
Collected By	**Jake Swanson**				1		03/03/23 11:01		
Collected Date	**02/07/23**				1		03/03/23 11:01		
Collected Time	**11:48**				1		03/03/23 11:01		
pH	**5.94**	Std. Units			1		03/03/23 11:01		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**9.5**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:00	7440-09-7	
Sodium	**8.1**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:00	7440-23-5	
Calcium	**22.3**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:00	7440-70-2	
Magnesium	**19.3**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:00	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	02/20/23 17:00	02/21/23 18:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 18:12	7440-38-2	
Barium	**0.034**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 18:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 18:12	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 18:12	7440-42-8	
Cadmium	**0.00012J**	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 18:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 18:12	7440-47-3	
Cobalt	**0.034**	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 18:12	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	02/20/23 17:00	02/21/23 18:12	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 18:12	7439-92-1	
Lithium	**0.0022J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 18:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 18:12	7439-98-7	
Nickel	**0.0096**	mg/L	0.0050	0.00071	1	02/20/23 17:00	02/21/23 18:12	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 18:12	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/20/23 17:00	02/21/23 18:12	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 18:12	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	02/20/23 17:00	02/21/23 18:12	7440-62-2	
Zinc	**0.0072J**	mg/L	0.010	0.0070	1	02/20/23 17:00	02/21/23 18:12	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00013J**	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 12:03	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**207**	mg/L	25.0	25.0	1		02/10/23 20:18		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-GWA-2 **Lab ID: 92651382004** Collected: 02/07/23 11:48 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**62.4**	mg/L	5.0	5.0	1		02/15/23 18:45		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 18:45		
Alkalinity, Total as CaCO3	**62.4**	mg/L	5.0	5.0	1		02/15/23 18:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.1**	mg/L	1.0	0.60	1		02/10/23 22:14	16887-00-6	
Fluoride	**0.095J**	mg/L	0.10	0.050	1		02/10/23 22:14	16984-48-8	
Sulfate	**82.4**	mg/L	1.0	0.50	1		02/10/23 22:14	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-5D **Lab ID: 92651382005** Collected: 02/07/23 16:22 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 11:05		
Collected By	**Jake Swanson**				1		03/03/23 11:05		
Collected Date	**02/07/23**				1		03/03/23 11:05		
Collected Time	**16:22**				1		03/03/23 11:05		
pH	**6.64**	Std. Units			1		03/03/23 11:05		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**3.7**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:05	7440-09-7	
Sodium	**9.7**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:05	7440-23-5	
Calcium	**26.6**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:05	7440-70-2	
Magnesium	**4.6**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:05	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	02/20/23 17:00	02/21/23 18:18	7440-36-0	
Arsenic	**0.0030J**	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 18:18	7440-38-2	
Barium	**0.0075**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 18:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 18:18	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 18:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 18:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 18:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 18:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 18:18	7439-92-1	
Lithium	**0.0059J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 18:18	7439-93-2	
Molybdenum	**0.00095J**	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 18:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 18:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 18:18	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 12:05	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**180**	mg/L	25.0	25.0	1		02/10/23 20:19		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**96.5**	mg/L	5.0	5.0	1		02/15/23 18:52		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 18:52		
Alkalinity, Total as CaCO3	**96.5**	mg/L	5.0	5.0	1		02/15/23 18:52		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-5D **Lab ID: 92651382005** Collected: 02/07/23 16:22 Received: 02/08/23 09:00 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								
Chloride	**3.3**	mg/L	1.0	0.60	1		02/10/23 22:29	16887-00-6	
Fluoride	**0.082J**	mg/L	0.10	0.050	1		02/10/23 22:29	16984-48-8	
Sulfate	**5.2**	mg/L	1.0	0.50	1		02/10/23 22:29	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-20S **Lab ID: 92651382006** Collected: 02/07/23 14:50 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 11:05		
Collected By	**Jake Swanson**				1		03/03/23 11:05		
Collected Date	**02/07/23**				1		03/03/23 11:05		
Collected Time	**14:50**				1		03/03/23 11:05		
pH	**5.63**	Std. Units			1		03/03/23 11:05		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**0.55**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:10	7440-09-7	
Sodium	**8.7**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:10	7440-23-5	
Calcium	**2.4**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:10	7440-70-2	
Magnesium	**0.58**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:10	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	02/20/23 17:00	02/21/23 18:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 18:24	7440-38-2	
Barium	**0.014**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 18:24	7440-39-3	
Beryllium	**0.000074J**	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 18:24	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 18:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 18:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 18:24	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 18:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 18:24	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 18:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 18:24	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 18:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 18:24	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00015J**	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 12:08	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**89.0**	mg/L	25.0	25.0	1		02/10/23 20:19		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**23.3**	mg/L	5.0	5.0	1		02/15/23 19:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 19:00		
Alkalinity, Total as CaCO3	**23.3**	mg/L	5.0	5.0	1		02/15/23 19:00		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-20S **Lab ID: 92651382006** Collected: 02/07/23 14:50 Received: 02/08/23 09:00 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								
Chloride	**2.9**	mg/L	1.0	0.60	1		02/10/23 23:14	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/10/23 23:14	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/10/23 23:14	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-21I **Lab ID: 92651382007** Collected: 02/07/23 12:48 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 11:06		
Collected By	**Jake Swanson**				1		03/03/23 11:06		
Collected Date	**02/07/23**				1		03/03/23 11:06		
Collected Time	**12:48**				1		03/03/23 11:06		
pH	**6.82**	Std. Units			1		03/03/23 11:06		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**3.2**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:14	7440-09-7	
Sodium	**20.4**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:14	7440-23-5	
Calcium	**7.5**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:14	7440-70-2	
Magnesium	**3.9**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:14	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	02/20/23 17:00	02/21/23 18:30	7440-36-0	
Arsenic	**0.0028J**	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 18:30	7440-38-2	
Barium	**0.010**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 18:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 18:30	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 18:30	7440-42-8	
Cadmium	**0.00012J**	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 18:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 18:30	7440-47-3	
Cobalt	**0.014**	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 18:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 18:30	7439-92-1	
Lithium	**0.0059J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 18:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 18:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 18:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 18:30	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00017J**	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 12:11	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**163**	mg/L	25.0	25.0	1		02/10/23 20:19		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**78.4**	mg/L	5.0	5.0	1		02/15/23 19:06		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 19:06		
Alkalinity, Total as CaCO3	**78.4**	mg/L	5.0	5.0	1		02/15/23 19:06		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-21I **Lab ID: 92651382007** Collected: 02/07/23 12:48 Received: 02/08/23 09:00 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								
Chloride	**2.4**	mg/L	1.0	0.60	1		02/10/23 23:28	16887-00-6	
Fluoride	**0.10**	mg/L	0.10	0.050	1		02/10/23 23:28	16984-48-8	
Sulfate	**3.8**	mg/L	1.0	0.50	1		02/10/23 23:28	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-17S **Lab ID: 92651382008** Collected: 02/07/23 11:16 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 11:12		
Collected By	**Jake Swanson**				1		03/03/23 11:12		
Collected Date	**02/07/23**				1		03/03/23 11:12		
Collected Time	**11:16**				1		03/03/23 11:12		
pH	**5.47**	Std. Units			1		03/03/23 11:12		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**0.41**	mg/L	0.20	0.15	1	02/20/23 17:00	02/22/23 15:47	7440-09-7	
Sodium	**14.2**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:19	7440-23-5	
Calcium	**2.9**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:19	7440-70-2	
Magnesium	**0.98**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:19	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0013J**	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 19:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:05	7440-38-2	
Barium	**0.017**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:05	7440-39-3	
Beryllium	**0.000096J**	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:05	7440-41-7	
Boron	**0.014J**	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:05	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:05	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:05	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00018J**	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 12:13	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**78.0**	mg/L	25.0	25.0	1		02/13/23 11:02		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**15.6**	mg/L	5.0	5.0	1		02/15/23 19:14		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 19:14		
Alkalinity, Total as CaCO3	**15.6**	mg/L	5.0	5.0	1		02/15/23 19:14		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-17S **Lab ID: 92651382008** Collected: 02/07/23 11:16 Received: 02/08/23 09:00 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								
Chloride	**11.4**	mg/L	1.0	0.60	1		02/10/23 23:43	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/10/23 23:43	16984-48-8	
Sulfate	**4.9**	mg/L	1.0	0.50	1		02/10/23 23:43	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-18S **Lab ID: 92651382009** Collected: 02/07/23 13:48 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 11:14		
Collected By	**Jake Swanson**				1		03/03/23 11:14		
Collected Date	**02/07/23**				1		03/03/23 11:14		
Collected Time	**13:48**				1		03/03/23 11:14		
pH	**5.03**	Std. Units			1		03/03/23 11:14		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Sodium	**7.8**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:24	7440-23-5	
Calcium	**0.79J**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:24	7440-70-2	
Magnesium	**0.91**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:24	7439-95-4	
Potassium	**0.50**	mg/L	0.20	0.15	1	02/20/23 17:00	02/22/23 15:52	7440-09-7	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 19:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:11	7440-38-2	
Barium	**0.012**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:11	7440-39-3	
Beryllium	**0.000071J**	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:11	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:11	7440-43-9	
Chromium	**0.0016J**	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:11	7439-92-1	
Lithium	**0.0012J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:11	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00017J**	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 12:16	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**55.0**	mg/L	25.0	25.0	1		02/13/23 11:02		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**9.3**	mg/L	5.0	5.0	1		02/15/23 19:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 19:20		
Alkalinity, Total as CaCO3	**9.3**	mg/L	5.0	5.0	1		02/15/23 19:20		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-18S **Lab ID: 92651382009** Collected: 02/07/23 13:48 Received: 02/08/23 09:00 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								
Chloride	**6.4**	mg/L	1.0	0.60	1		02/10/23 23:58	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/10/23 23:58	16984-48-8	
Sulfate	**1.2**	mg/L	1.0	0.50	1		02/10/23 23:58	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-18I **Lab ID: 92651382010** Collected: 02/07/23 12:31 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 11:16		
Collected By	**Jake Swanson**				1		03/03/23 11:16		
Collected Date	**02/07/23**				1		03/03/23 11:16		
Collected Time	**12:31**				1		03/03/23 11:16		
pH	**6.00**	Std. Units			1		03/03/23 11:16		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**0.96**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:29	7440-09-7	
Sodium	**12.6**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:29	7440-23-5	
Calcium	**5.5**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:29	7440-70-2	
Magnesium	**3.1**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:29	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	02/20/23 17:00	02/21/23 19:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:17	7440-38-2	
Barium	**0.019**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:17	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:17	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:17	7439-92-1	
Lithium	**0.0030J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:17	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00013J**	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 12:18	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**96.0**	mg/L	25.0	25.0	1		02/13/23 11:02		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**36.0**	mg/L	5.0	5.0	1		02/15/23 19:34		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 19:34		
Alkalinity, Total as CaCO3	**36.0**	mg/L	5.0	5.0	1		02/15/23 19:34		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-18I **Lab ID: 92651382010** Collected: 02/07/23 12:31 Received: 02/08/23 09:00 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								
Chloride	**7.4**	mg/L	1.0	0.60	1		02/11/23 00:13	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/11/23 00:13	16984-48-8	
Sulfate	**0.78J**	mg/L	1.0	0.50	1		02/11/23 00:13	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-39 **Lab ID: 92651382011** Collected: 02/07/23 16:15 Received: 02/08/23 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 11:17		
Collected By	**Jake Swanson**				1		03/03/23 11:17		
Collected Date	**02/07/23**				1		03/03/23 11:17		
Collected Time	**16:15**				1		03/03/23 11:17		
pH	**5.49**	Std. Units			1		03/03/23 11:17		
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	02/20/23 17:00	02/21/23 17:34	7440-09-7	
Sodium	**28.1**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:34	7440-23-5	
Calcium	**16.1**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:34	7440-70-2	
Magnesium	**21.7**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:34	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	02/20/23 17:00	02/21/23 19:23	7440-36-0	
Arsenic	**0.0029J**	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:23	7440-38-2	
Barium	**0.030**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:23	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:23	7440-41-7	
Boron	**0.13**	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:23	7440-42-8	
Cadmium	**0.00014J**	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:23	7440-47-3	
Cobalt	**0.00066J**	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:23	7439-92-1	
Lithium	**0.0065J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:23	7439-93-2	
Molybdenum	**0.0045J**	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:23	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 09:15	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**224**	mg/L	25.0	25.0	1		02/13/23 11:02		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**177**	mg/L	5.0	5.0	1		02/15/23 19:41		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 19:41		
Alkalinity, Total as CaCO3	**177**	mg/L	5.0	5.0	1		02/15/23 19:41		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-39 **Lab ID: 92651382011** Collected: 02/07/23 16:15 Received: 02/08/23 09:00 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								
Chloride	**5.6**	mg/L	1.0	0.60	1		02/11/23 00:58	16887-00-6	
Fluoride	**0.076J**	mg/L	0.10	0.050	1		02/11/23 00:58	16984-48-8	
Sulfate	**9.7**	mg/L	1.0	0.50	1		02/11/23 00:58	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-47 **Lab ID: 92651382012** Collected: 02/08/23 17:02 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 14:32		
Collected By	**Jake Swanson**				1		03/03/23 14:32		
Collected Date	**02/08/23**				1		03/03/23 14:32		
Collected Time	**17:02**				1		03/03/23 14:32		
pH	**5.22**	Std. Units			1		03/03/23 14:32		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**3.7**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:39	7440-09-7	
Sodium	**11.4**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:39	7440-23-5	
Calcium	**9.2**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:39	7440-70-2	
Magnesium	**10**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:39	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	02/20/23 17:00	02/21/23 19:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:29	7440-38-2	
Barium	**0.031**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:29	7440-41-7	
Boron	**0.011J**	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:29	7440-42-8	
Cadmium	**0.00032J**	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:29	7440-47-3	
Cobalt	**0.0011J**	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:29	7439-92-1	
Lithium	**0.0037J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:29	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:29	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 09:18	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**141**	mg/L	25.0	25.0	1		02/14/23 12:04		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**37.8**	mg/L	5.0	5.0	1		02/17/23 13:25		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 13:25		
Alkalinity, Total as CaCO3	**37.8**	mg/L	5.0	5.0	1		02/17/23 13:25		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-47 **Lab ID: 92651382012** Collected: 02/08/23 17:02 Received: 02/09/23 12:35 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								
Chloride	**3.5**	mg/L	1.0	0.60	1		02/14/23 05:10	16887-00-6	
Fluoride	**0.077J**	mg/L	0.10	0.050	1		02/14/23 05:10	16984-48-8	
Sulfate	**50.5**	mg/L	1.0	0.50	1		02/14/23 05:10	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-30I **Lab ID: 92651382013** Collected: 02/08/23 15:10 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 14:39		
Collected By	**Jake Swanson**				1		03/03/23 14:39		
Collected Date	**02/08/23**				1		03/03/23 14:39		
Collected Time	**15:10**				1		03/03/23 14:39		
pH	**6.43**	Std. Units			1		03/03/23 14:39		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**0.55**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:44	7440-09-7	
Sodium	**6.0**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:44	7440-23-5	
Calcium	**1.3**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:44	7440-70-2	
Magnesium	**0.92**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:44	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	02/20/23 17:00	02/21/23 19:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:35	7440-38-2	
Barium	**0.0066**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:35	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:35	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:35	7440-43-9	
Chromium	**0.0021J**	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:35	7440-47-3	
Cobalt	**0.0031J**	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:35	7439-92-1	
Lithium	**0.0011J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:35	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 11:17	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**43.0**	mg/L	25.0	25.0	1		02/14/23 12:05		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**15.4**	mg/L	5.0	5.0	1		02/17/23 13:32		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 13:32		
Alkalinity, Total as CaCO3	**15.4**	mg/L	5.0	5.0	1		02/17/23 13:32		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-30I **Lab ID: 92651382013** Collected: 02/08/23 15:10 Received: 02/09/23 12:35 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								
Chloride	**1.6**	mg/L	1.0	0.60	1		02/14/23 05:25	16887-00-6	
Fluoride	**0.064J**	mg/L	0.10	0.050	1		02/14/23 05:25	16984-48-8	
Sulfate	**0.96J**	mg/L	1.0	0.50	1		02/14/23 05:25	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-14S **Lab ID: 92651382014** Collected: 02/08/23 13:50 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 14:54		
Collected By	**Jake Swanson**				1		03/03/23 14:54		
Collected Date	**02/08/23**				1		03/03/23 14:54		
Collected Time	**13:50**				1		03/03/23 14:54		
pH	**5.39**	Std. Units			1		03/03/23 14:54		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**0.87**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:58	7440-09-7	
Sodium	**9.5**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:58	7440-23-5	
Calcium	**1.5**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:58	7440-70-2	
Magnesium	**1.6**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:58	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	02/20/23 17:00	02/21/23 19:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:41	7440-38-2	
Barium	**0.0089**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:41	7440-39-3	
Beryllium	**0.00022J**	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:41	7440-41-7	
Boron	**0.015J**	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:41	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:41	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:41	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:41	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:41	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 11:20	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**56.0**	mg/L	25.0	25.0	1		02/14/23 12:06		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**13.0**	mg/L	5.0	5.0	1		02/17/23 13:37		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 13:37		
Alkalinity, Total as CaCO3	**13.0**	mg/L	5.0	5.0	1		02/17/23 13:37		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-14S **Lab ID: 92651382014** Collected: 02/08/23 13:50 Received: 02/09/23 12:35 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								
Chloride	**4.9**	mg/L	1.0	0.60	1		02/14/23 05:40	16887-00-6	
Fluoride	**0.059J**	mg/L	0.10	0.050	1		02/14/23 05:40	16984-48-8	
Sulfate	**6.1**	mg/L	1.0	0.50	1		02/14/23 05:40	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-3I **Lab ID: 92651382015** Collected: 02/08/23 10:00 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 14:55		
Collected By	**Jake Swanson**				1		03/03/23 14:55		
Collected Date	**02/08/23**				1		03/03/23 14:55		
Collected Time	**10:00**				1		03/03/23 14:55		
pH	**7.73**	Std. Units			1		03/03/23 14:55		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**5.3**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 18:03	7440-09-7	
Sodium	**9.4**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 18:03	7440-23-5	
Calcium	**23.3**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 18:03	7440-70-2	
Magnesium	**5.4**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 18:03	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	02/20/23 17:00	02/21/23 19:47	7440-36-0	
Arsenic	**0.0024J**	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:47	7440-38-2	
Barium	**0.0029J**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:47	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:47	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:47	7440-42-8	
Cadmium	**0.00013J**	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:47	7439-92-1	
Lithium	**0.018J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:47	7439-93-2	
Molybdenum	**0.0065J**	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:47	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:47	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 11:28	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**145**	mg/L	25.0	25.0	1		02/14/23 12:07		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**92.2**	mg/L	5.0	5.0	1		02/17/23 13:43		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 13:43		
Alkalinity, Total as CaCO3	**92.2**	mg/L	5.0	5.0	1		02/17/23 13:43		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-3I **Lab ID: 92651382015** Collected: 02/08/23 10:00 Received: 02/09/23 12:35 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								
Chloride	**1.1**	mg/L	1.0	0.60	1		02/14/23 06:25	16887-00-6	
Fluoride	**0.16**	mg/L	0.10	0.050	1		02/14/23 06:25	16984-48-8	
Sulfate	**14.7**	mg/L	1.0	0.50	1		02/14/23 06:25	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-3D **Lab ID: 92651382016** Collected: 02/08/23 11:40 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 14:56		
Collected By	**Jake Swanson**				1		03/03/23 14:56		
Collected Date	**02/08/23**				1		03/03/23 14:56		
Collected Time	**11:40**				1		03/03/23 14:56		
pH	**7.88**	Std. Units			1		03/03/23 14:56		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**3.5**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 18:08	7440-09-7	
Sodium	**9.9**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 18:08	7440-23-5	
Calcium	**28.9**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 18:08	7440-70-2	
Magnesium	**3.6**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 18:08	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	02/20/23 17:00	02/21/23 20:05	7440-36-0	
Arsenic	**0.0030J**	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 20:05	7440-38-2	
Barium	**0.0048J**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 20:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 20:05	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 20:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 20:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 20:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 20:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 20:05	7439-92-1	
Lithium	**0.023J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 20:05	7439-93-2	
Molybdenum	**0.012**	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 20:05	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 20:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 20:05	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 11:30	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**144**	mg/L	25.0	25.0	1		02/14/23 12:07		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**106**	mg/L	5.0	5.0	1		02/17/23 13:51		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 13:51		
Alkalinity, Total as CaCO3	**106**	mg/L	5.0	5.0	1		02/17/23 13:51		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-3D **Lab ID: 92651382016** Collected: 02/08/23 11:40 Received: 02/09/23 12:35 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								
Chloride	**1.2**	mg/L	1.0	0.60	1		02/14/23 07:10	16887-00-6	
Fluoride	**0.56**	mg/L	0.10	0.050	1		02/14/23 07:10	16984-48-8	
Sulfate	**7.5**	mg/L	1.0	0.50	1		02/14/23 07:10	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-40 **Lab ID: 92651382017** Collected: 02/08/23 12:02 Received: 02/09/23 12:35 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 14:57		
Collected By	**Jake Swanson**				1		03/03/23 14:57		
Collected Date	**02/08/23**				1		03/03/23 14:57		
Collected Time	**12:02**				1		03/03/23 14:57		
pH	**5.71**	Std. Units			1		03/03/23 14:57		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**2.2**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 18:12	7440-09-7	
Sodium	**10.1**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 18:12	7440-23-5	
Calcium	**5.9**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 18:12	7440-70-2	
Magnesium	**3.4**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 18:12	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	02/20/23 17:00	02/21/23 20:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 20:11	7440-38-2	
Barium	**0.037**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 20:11	7440-39-3	
Beryllium	**0.00026J**	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 20:11	7440-41-7	
Boron	**0.057**	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 20:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 20:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 20:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 20:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 20:11	7439-92-1	
Lithium	**0.00074J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 20:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 20:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 20:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 20:11	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 11:33	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**115**	mg/L	25.0	25.0	1		02/14/23 12:08		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**27.6**	mg/L	5.0	5.0	1		02/17/23 14:09		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 14:09		
Alkalinity, Total as CaCO3	**27.6**	mg/L	5.0	5.0	1		02/17/23 14:09		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-40 **Lab ID: 92651382017** Collected: 02/08/23 12:02 Received: 02/09/23 12:35 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								
Chloride	**6.9**	mg/L	1.0	0.60	1		02/14/23 08:10	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/14/23 08:10	16984-48-8	
Sulfate	**17.5**	mg/L	1.0	0.50	1		02/14/23 08:10	14808-79-8	

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-4I **Lab ID: 92651382018** Collected: 02/09/23 09:55 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 14:57		
Collected By	**Jake Swanson**				1		03/03/23 14:57		
Collected Date	**02/09/23**				1		03/03/23 14:57		
Collected Time	**09:55**				1		03/03/23 14:57		
pH	**6.23**	Std. Units			1		03/03/23 14:57		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**4.1**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 18:17	7440-09-7	
Sodium	**9.9**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 18:17	7440-23-5	
Calcium	**9.6**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 18:17	7440-70-2	
Magnesium	**5.3**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 18:17	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	02/20/23 17:00	02/21/23 20:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 20:17	7440-38-2	
Barium	**0.014**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 20:17	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 20:17	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 20:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 20:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 20:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 20:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 20:17	7439-92-1	
Lithium	**0.014J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 20:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 20:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 20:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 20:17	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 11:35	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**124**	mg/L	25.0	25.0	1		02/15/23 18:40		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**57.7**	mg/L	5.0	5.0	1		02/17/23 18:12		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 18:12		
Alkalinity, Total as CaCO3	**57.7**	mg/L	5.0	5.0	1		02/17/23 18:12		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-4I **Lab ID: 92651382018** Collected: 02/09/23 09:55 Received: 02/10/23 14:00 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								
Chloride	**4.5**	mg/L	1.0	0.60	1		02/14/23 21:36	16887-00-6	
Fluoride	**0.067J**	mg/L	0.10	0.050	1		02/14/23 21:36	16984-48-8	
Sulfate	**8.9**	mg/L	1.0	0.50	1		02/14/23 21:36	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-5I **Lab ID: 92651382019** Collected: 02/09/23 11:26 Received: 02/10/23 14:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Charlotte								
Performed by	**Client**				1		03/03/23 14:58		
Collected By	**Jake Swanson**				1		03/03/23 14:58		
Collected Date	**02/09/23**				1		03/03/23 14:58		
Collected Time	**11:26**				1		03/03/23 14:58		
pH	**5.90**	Std. Units			1		03/03/23 14:58		
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**1.6**	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 18:22	7440-09-7	
Sodium	**10.8**	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 18:22	7440-23-5	
Calcium	**2.8**	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 18:22	7440-70-2	
Magnesium	**2.7**	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 18:22	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	02/20/23 17:00	02/21/23 20:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 20:23	7440-38-2	
Barium	**0.019**	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 20:23	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 20:23	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 20:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 20:23	7440-43-9	
Chromium	**0.0012J**	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 20:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 20:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 20:23	7439-92-1	
Lithium	**0.0036J**	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 20:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 20:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 20:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 20:23	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 11:38	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**59.0**	mg/L	25.0	25.0	1		02/15/23 18:40		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**26.4**	mg/L	5.0	5.0	1		02/17/23 18:31		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 18:31		
Alkalinity, Total as CaCO3	**26.4**	mg/L	5.0	5.0	1		02/17/23 18:31		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Sample: YAT-YGWA-5I **Lab ID: 92651382019** Collected: 02/09/23 11:26 Received: 02/10/23 14:00 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								
Chloride	**5.0**	mg/L	1.0	0.60	1		02/14/23 21:51	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/14/23 21:51	16984-48-8	
Sulfate	**2.9**	mg/L	1.0	0.50	1		02/14/23 21:51	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 757001
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011, 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017, 92651382018, 92651382019

METHOD BLANK: 3932792 Matrix: Water
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011, 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017, 92651382018, 92651382019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/21/23 15:56	
Magnesium	mg/L	ND	0.050	0.012	02/21/23 15:56	
Potassium	mg/L	ND	0.20	0.15	02/21/23 15:56	
Sodium	mg/L	ND	1.0	0.58	02/21/23 15:56	

LABORATORY CONTROL SAMPLE: 3932793

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	100	80-120	
Magnesium	mg/L	1	1.0	101	80-120	
Potassium	mg/L	1	0.97	97	80-120	
Sodium	mg/L	1	0.98J	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3932794 3932795

Parameter	Units	92651382003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	25.6	1	1	25.6	26.5	4	88	75-125	3	20	M1
Magnesium	mg/L	4.1	1	1	4.9	5.1	87	101	75-125	3	20	
Potassium	mg/L	5.1	1	1	6.1	6.2	93	103	75-125	2	20	
Sodium	mg/L	9.0	1	1	9.7	10	65	97	75-125	3	20	M1

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 756999
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011, 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017, 92651382018, 92651382019

METHOD BLANK: 3932782
Matrix: Water
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011, 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017, 92651382018, 92651382019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/21/23 17:42	
Arsenic	mg/L	ND	0.0050	0.0022	02/21/23 17:42	
Barium	mg/L	ND	0.0050	0.00067	02/21/23 17:42	
Beryllium	mg/L	ND	0.00050	0.000054	02/21/23 17:42	
Boron	mg/L	ND	0.040	0.0086	02/21/23 17:42	
Cadmium	mg/L	ND	0.00050	0.00011	02/21/23 17:42	
Chromium	mg/L	ND	0.0050	0.0011	02/21/23 17:42	
Cobalt	mg/L	ND	0.0050	0.00039	02/21/23 17:42	
Copper	mg/L	ND	0.0050	0.0010	02/21/23 17:42	
Lead	mg/L	ND	0.0010	0.00089	02/21/23 17:42	
Lithium	mg/L	ND	0.030	0.00073	02/21/23 17:42	
Molybdenum	mg/L	ND	0.010	0.00074	02/21/23 17:42	
Nickel	mg/L	ND	0.0050	0.00071	02/21/23 17:42	
Selenium	mg/L	ND	0.0050	0.0014	02/21/23 17:42	
Silver	mg/L	ND	0.0050	0.00044	02/21/23 17:42	
Thallium	mg/L	ND	0.0010	0.00018	02/21/23 17:42	
Vanadium	mg/L	ND	0.010	0.0019	02/21/23 17:42	
Zinc	mg/L	ND	0.010	0.0070	02/21/23 17:42	

LABORATORY CONTROL SAMPLE: 3932783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	110	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.11	107	80-120	
Boron	mg/L	1	1.1	106	80-120	
Cadmium	mg/L	0.1	0.10	104	80-120	
Chromium	mg/L	0.1	0.10	104	80-120	
Cobalt	mg/L	0.1	0.10	104	80-120	
Copper	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.11	108	80-120	
Molybdenum	mg/L	0.1	0.10	105	80-120	
Nickel	mg/L	0.1	0.10	102	80-120	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

LABORATORY CONTROL SAMPLE: 3932783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Selenium	mg/L	0.1	0.10	103	80-120	
Silver	mg/L	0.1	0.10	104	80-120	
Thallium	mg/L	0.1	0.10	102	80-120	
Vanadium	mg/L	0.1	0.10	102	80-120	
Zinc	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3932784 3932785

Parameter	Units	92651382007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	106	108	75-125	1	20	
Arsenic	mg/L	0.0028J	0.1	0.1	0.10	0.10	100	100	75-125	1	20	
Barium	mg/L	0.010	0.1	0.1	0.11	0.12	103	105	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	1	20	
Boron	mg/L	ND	1	1	1.0	1.0	101	100	75-125	1	20	
Cadmium	mg/L	0.00012J	0.1	0.1	0.10	0.10	105	103	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.11	0.10	106	102	75-125	4	20	
Cobalt	mg/L	0.014	0.1	0.1	0.12	0.11	102	100	75-125	2	20	
Copper	mg/L	ND	0.1	0.1	0.10	0.099	103	99	75-125	4	20	
Lead	mg/L	ND	0.1	0.1	0.097	0.098	97	98	75-125	2	20	
Lithium	mg/L	0.0059J	0.1	0.1	0.11	0.11	99	100	75-125	0	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	0.099	103	99	75-125	4	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20	
Silver	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.099	0.10	99	101	75-125	1	20	
Vanadium	mg/L	0.0024J	0.1	0.1	0.11	0.10	104	103	75-125	2	20	
Zinc	mg/L	0.31	0.1	0.1	0.31	0.30	-1	-11	75-125	3	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 757772
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010

METHOD BLANK: 3936482 Matrix: Water
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/24/23 11:05	

LABORATORY CONTROL SAMPLE: 3936483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3936484 3936485

Parameter	Units	92651415001 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	0.0021	0.0021	83	84	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 758311
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651382011, 92651382012

METHOD BLANK: 3939038 Matrix: Water
Associated Lab Samples: 92651382011, 92651382012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/28/23 08:04	

LABORATORY CONTROL SAMPLE: 3939039

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: 3939040 3939041

Parameter	Units	92650181021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0023	92	93	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 758312
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651382013, 92651382014, 92651382015, 92651382016, 92651382017, 92651382018, 92651382019

METHOD BLANK: 3939045 Matrix: Water
Associated Lab Samples: 92651382013, 92651382014, 92651382015, 92651382016, 92651382017, 92651382018, 92651382019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/28/23 10:25	

LABORATORY CONTROL SAMPLE: 3939046

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3939047 3939048

Parameter	Units	92651576003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0023	89	89	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 755255
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007

METHOD BLANK: 3924151 Matrix: Water
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/10/23 20:11	

LABORATORY CONTROL SAMPLE: 3924152

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	404	101	80-120	

SAMPLE DUPLICATE: 3924153

Parameter	Units	92650830002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	98.0	99.0	1	10	

SAMPLE DUPLICATE: 3924154

Parameter	Units	92651189001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	3260	3540	8	10	

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REPORT OF LABORATORY ANALYSIS

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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 755432
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651382008, 92651382009, 92651382010, 92651382011

METHOD BLANK: 3924925 Matrix: Water
Associated Lab Samples: 92651382008, 92651382009, 92651382010, 92651382011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/13/23 11:02	

LABORATORY CONTROL SAMPLE: 3924926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	389	97	80-120	

SAMPLE DUPLICATE: 3924927

Parameter	Units	92651382008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	78.0	72.0	8	10	

SAMPLE DUPLICATE: 3924928

Parameter	Units	92650182022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	489	496	1	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 755730 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017

METHOD BLANK: 3926329 Matrix: Water
Associated Lab Samples: 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/14/23 11:56	

LABORATORY CONTROL SAMPLE: 3926330

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	396	99	80-120	

SAMPLE DUPLICATE: 3926331

Parameter	Units	92651580013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	190	203	7	10	

SAMPLE DUPLICATE: 3926332

Parameter	Units	92651382012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	141	138	2	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 755997
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92651382018, 92651382019

METHOD BLANK: 3927731 Matrix: Water
Associated Lab Samples: 92651382018, 92651382019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/15/23 18:35	

LABORATORY CONTROL SAMPLE: 3927732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 3927733

Parameter	Units	92651576013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	246	153	47	10	

SAMPLE DUPLICATE: 3927734

Parameter	Units	92651580022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	582	676	15	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 755796
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92651382001, 92651382002

METHOD BLANK: 3926730 Matrix: Water
Associated Lab Samples: 92651382001, 92651382002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/15/23 14:32	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/15/23 14:32	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/15/23 14:32	

LABORATORY CONTROL SAMPLE: 3926731

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.4	99	80-120	

LABORATORY CONTROL SAMPLE: 3926732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.6	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926733 3926734

Parameter	Units	92651382001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	20.4	50	50	69.8	70.8	99	101	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926735 3926736

Parameter	Units	92651382002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	65.4	50	50	117	121	102	111	80-120	4	25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 755797
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011

METHOD BLANK: 3926737 Matrix: Water
Associated Lab Samples: 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/15/23 18:18	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/15/23 18:18	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/15/23 18:18	

LABORATORY CONTROL SAMPLE: 3926738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.3	101	80-120	

LABORATORY CONTROL SAMPLE: 3926739

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.9	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926740 3926741

Parameter	Units	92651415002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	53.5	53.8	102	102	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926742 3926743

Parameter	Units	92651415003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	10.3	50	50	62.8	63.4	105	106	80-120	1	25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 756119
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017

METHOD BLANK: 3928501 Matrix: Water
Associated Lab Samples: 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/17/23 11:43	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 11:43	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 11:43	

LABORATORY CONTROL SAMPLE: 3928502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.5	101	80-120	

LABORATORY CONTROL SAMPLE: 3928503

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3928504 3928505

Parameter	Units	92651771001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	219	50	50	262	271	86	104	80-120	3	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3928506 3928507

Parameter	Units	92651771002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	242	50	50	287	284	90	83	80-120	1	25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
110 Technology Parkway
Peachtree Corners, GA 30092
(770)734-4200

QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 756264
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92651382018, 92651382019

METHOD BLANK: 3929037 Matrix: Water
Associated Lab Samples: 92651382018, 92651382019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/17/23 15:34	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 15:34	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 15:34	

LABORATORY CONTROL SAMPLE: 3929038

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.9	102	80-120	

LABORATORY CONTROL SAMPLE: 3929039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.3	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3929040 3929041

Parameter	Units	92651382018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	57.7	50	50	111	113	107	111	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3929042 3929043

Parameter	Units	92651382019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	26.4	50	50	78.1	79.1	103	105	80-120	1	25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 755105
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011

METHOD BLANK: 3923321 Matrix: Water
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/10/23 20:14	
Fluoride	mg/L	ND	0.10	0.050	02/10/23 20:14	
Sulfate	mg/L	ND	1.0	0.50	02/10/23 20:14	

LABORATORY CONTROL SAMPLE: 3923322

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.5	99	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	48.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3923323 3923324

Parameter	Units	92651536005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.9	50	50	53.7	54.3	100	101	90-110	1	10	
Fluoride	mg/L	0.074J	2.5	2.5	2.5	2.6	98	100	90-110	2	10	
Sulfate	mg/L	5.0	50	50	53.3	54.1	97	98	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3923325 3923326

Parameter	Units	92651382010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	7.4	50	50	55.6	56.6	97	98	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	93	96	90-110	4	10	
Sulfate	mg/L	0.78J	50	50	47.5	48.5	93	96	90-110	2	10	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 755595
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92651382012, 92651382013, 92651382014

METHOD BLANK: 3925880 Matrix: Water
Associated Lab Samples: 92651382012, 92651382013, 92651382014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/13/23 22:52	
Fluoride	mg/L	ND	0.10	0.050	02/13/23 22:52	
Sulfate	mg/L	ND	1.0	0.50	02/13/23 22:52	

LABORATORY CONTROL SAMPLE: 3925881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.1	102	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925882 3925883

Parameter	Units	92651580015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.8	50	50	53.5	56.1	99	105	90-110	5	10	
Fluoride	mg/L	0.050J	2.5	2.5	3.0	3.0	117	117	90-110	0	10	M1
Sulfate	mg/L	368	50	50	417	420	99	104	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925884 3925885

Parameter	Units	92651415007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	51.3	52.7	103	105	90-110	3	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	106	107	90-110	1	10	
Sulfate	mg/L	ND	50	50	51.3	53.3	102	106	90-110	4	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 755597
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92651382015, 92651382016, 92651382017

METHOD BLANK: 3925890 Matrix: Water
Associated Lab Samples: 92651382015, 92651382016, 92651382017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/14/23 05:55	
Fluoride	mg/L	ND	0.10	0.050	02/14/23 05:55	
Sulfate	mg/L	ND	1.0	0.50	02/14/23 05:55	

LABORATORY CONTROL SAMPLE: 3925891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.1	104	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	52.3	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925892 3925893

Parameter	Units	92651382015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.1	50	50	51.8	52.9	101	103	90-110	2	10	
Fluoride	mg/L	0.16	2.5	2.5	2.9	2.9	109	110	90-110	1	10	
Sulfate	mg/L	14.7	50	50	64.8	65.7	100	102	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925894 3925895

Parameter	Units	92651745002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1960	50	50	1980	2000	38	74	90-110	1	10	M1
Fluoride	mg/L	ND	2.5	2.5	ND	0.77	-2	29	90-110		10	M1
Sulfate	mg/L	26.1	50	50	78.9	80.4	106	109	90-110	2	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

QC Batch: 755672
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92651382018, 92651382019

METHOD BLANK: 3926089 Matrix: Water
Associated Lab Samples: 92651382018, 92651382019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/14/23 13:03	
Fluoride	mg/L	ND	0.10	0.050	02/14/23 13:03	
Sulfate	mg/L	ND	1.0	0.50	02/14/23 13:03	

LABORATORY CONTROL SAMPLE: 3926090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	
Fluoride	mg/L	2.5	2.6	105	90-110	
Sulfate	mg/L	50	49.1	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926091 3926092

Parameter	Units	92651576004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	15.1	50	50	65.5	66.8	101	103	90-110	2	10	
Fluoride	mg/L	0.070J	2.5	2.5	2.6	2.7	101	104	90-110	3	10	
Sulfate	mg/L	89.7	50	50	147	148	114	116	90-110	1	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926093 3926094

Parameter	Units	92651614002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.9	50	50	58.0	58.3	104	105	90-110	0	10	
Fluoride	mg/L	0.11	2.5	2.5	2.8	2.8	106	108	90-110	1	10	
Sulfate	mg/L	193	50	50	243	244	101	102	90-110	0	10	

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(770)734-4200

QUALIFIERS

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, LLC
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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651382001	YAT-YGWA-1I				
92651382002	YAT-YGWA-1D				
92651382003	YAT-YGWA-2I				
92651382004	YAT-GWA-2				
92651382005	YAT-YGWA-5D				
92651382006	YAT-YGWA-20S				
92651382007	YAT-YGWA-21I				
92651382008	YAT-YGWA-17S				
92651382009	YAT-YGWA-18S				
92651382010	YAT-YGWA-18I				
92651382011	YAT-YGWA-39				
92651382012	YAT-YGWA-47				
92651382013	YAT-YGWA-30I				
92651382014	YAT-YGWA-14S				
92651382015	YAT-YGWA-3I				
92651382016	YAT-YGWA-3D				
92651382017	YAT-YGWA-40				
92651382018	YAT-YGWA-4I				
92651382019	YAT-YGWA-5I				
92651382001	YAT-YGWA-1I	EPA 3010A	757001	EPA 6010D	757027
92651382002	YAT-YGWA-1D	EPA 3010A	757001	EPA 6010D	757027
92651382003	YAT-YGWA-2I	EPA 3010A	757001	EPA 6010D	757027
92651382004	YAT-GWA-2	EPA 3010A	757001	EPA 6010D	757027
92651382005	YAT-YGWA-5D	EPA 3010A	757001	EPA 6010D	757027
92651382006	YAT-YGWA-20S	EPA 3010A	757001	EPA 6010D	757027
92651382007	YAT-YGWA-21I	EPA 3010A	757001	EPA 6010D	757027
92651382008	YAT-YGWA-17S	EPA 3010A	757001	EPA 6010D	757027
92651382009	YAT-YGWA-18S	EPA 3010A	757001	EPA 6010D	757027
92651382010	YAT-YGWA-18I	EPA 3010A	757001	EPA 6010D	757027
92651382011	YAT-YGWA-39	EPA 3010A	757001	EPA 6010D	757027
92651382012	YAT-YGWA-47	EPA 3010A	757001	EPA 6010D	757027
92651382013	YAT-YGWA-30I	EPA 3010A	757001	EPA 6010D	757027
92651382014	YAT-YGWA-14S	EPA 3010A	757001	EPA 6010D	757027
92651382015	YAT-YGWA-3I	EPA 3010A	757001	EPA 6010D	757027
92651382016	YAT-YGWA-3D	EPA 3010A	757001	EPA 6010D	757027
92651382017	YAT-YGWA-40	EPA 3010A	757001	EPA 6010D	757027
92651382018	YAT-YGWA-4I	EPA 3010A	757001	EPA 6010D	757027
92651382019	YAT-YGWA-5I	EPA 3010A	757001	EPA 6010D	757027
92651382001	YAT-YGWA-1I	EPA 3005A	756999	EPA 6020B	757022
92651382002	YAT-YGWA-1D	EPA 3005A	756999	EPA 6020B	757022
92651382003	YAT-YGWA-2I	EPA 3005A	756999	EPA 6020B	757022
92651382004	YAT-GWA-2	EPA 3005A	756999	EPA 6020B	757022
92651382005	YAT-YGWA-5D	EPA 3005A	756999	EPA 6020B	757022
92651382006	YAT-YGWA-20S	EPA 3005A	756999	EPA 6020B	757022
92651382007	YAT-YGWA-21I	EPA 3005A	756999	EPA 6020B	757022
92651382008	YAT-YGWA-17S	EPA 3005A	756999	EPA 6020B	757022
92651382009	YAT-YGWA-18S	EPA 3005A	756999	EPA 6020B	757022
92651382010	YAT-YGWA-18I	EPA 3005A	756999	EPA 6020B	757022

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651382011	**YAT-YGWA-39**	EPA 3005A	756999	EPA 6020B	757022
92651382012	**YAT-YGWA-47**	EPA 3005A	756999	EPA 6020B	757022
92651382013	**YAT-YGWA-30I**	EPA 3005A	756999	EPA 6020B	757022
92651382014	**YAT-YGWA-14S**	EPA 3005A	756999	EPA 6020B	757022
92651382015	**YAT-YGWA-3I**	EPA 3005A	756999	EPA 6020B	757022
92651382016	**YAT-YGWA-3D**	EPA 3005A	756999	EPA 6020B	757022
92651382017	**YAT-YGWA-40**	EPA 3005A	756999	EPA 6020B	757022
92651382018	**YAT-YGWA-4I**	EPA 3005A	756999	EPA 6020B	757022
92651382019	**YAT-YGWA-5I**	EPA 3005A	756999	EPA 6020B	757022
92651382001	**YAT-YGWA-1I**	EPA 7470A	757772	EPA 7470A	757938
92651382002	**YAT-YGWA-1D**	EPA 7470A	757772	EPA 7470A	757938
92651382003	**YAT-YGWA-2I**	EPA 7470A	757772	EPA 7470A	757938
92651382004	**YAT-GWA-2**	EPA 7470A	757772	EPA 7470A	757938
92651382005	**YAT-YGWA-5D**	EPA 7470A	757772	EPA 7470A	757938
92651382006	**YAT-YGWA-20S**	EPA 7470A	757772	EPA 7470A	757938
92651382007	**YAT-YGWA-21I**	EPA 7470A	757772	EPA 7470A	757938
92651382008	**YAT-YGWA-17S**	EPA 7470A	757772	EPA 7470A	757938
92651382009	**YAT-YGWA-18S**	EPA 7470A	757772	EPA 7470A	757938
92651382010	**YAT-YGWA-18I**	EPA 7470A	757772	EPA 7470A	757938
92651382011	**YAT-YGWA-39**	EPA 7470A	758311	EPA 7470A	758406
92651382012	**YAT-YGWA-47**	EPA 7470A	758311	EPA 7470A	758406
92651382013	**YAT-YGWA-30I**	EPA 7470A	758312	EPA 7470A	758407
92651382014	**YAT-YGWA-14S**	EPA 7470A	758312	EPA 7470A	758407
92651382015	**YAT-YGWA-3I**	EPA 7470A	758312	EPA 7470A	758407
92651382016	**YAT-YGWA-3D**	EPA 7470A	758312	EPA 7470A	758407
92651382017	**YAT-YGWA-40**	EPA 7470A	758312	EPA 7470A	758407
92651382018	**YAT-YGWA-4I**	EPA 7470A	758312	EPA 7470A	758407
92651382019	**YAT-YGWA-5I**	EPA 7470A	758312	EPA 7470A	758407
92651382001	**YAT-YGWA-1I**	SM 2540C-2015	755255		
92651382002	**YAT-YGWA-1D**	SM 2540C-2015	755255		
92651382003	**YAT-YGWA-2I**	SM 2540C-2015	755255		
92651382004	**YAT-GWA-2**	SM 2540C-2015	755255		
92651382005	**YAT-YGWA-5D**	SM 2540C-2015	755255		
92651382006	**YAT-YGWA-20S**	SM 2540C-2015	755255		
92651382007	**YAT-YGWA-21I**	SM 2540C-2015	755255		
92651382008	**YAT-YGWA-17S**	SM 2540C-2015	755432		
92651382009	**YAT-YGWA-18S**	SM 2540C-2015	755432		
92651382010	**YAT-YGWA-18I**	SM 2540C-2015	755432		
92651382011	**YAT-YGWA-39**	SM 2540C-2015	755432		
92651382012	**YAT-YGWA-47**	SM 2540C-2015	755730		
92651382013	**YAT-YGWA-30I**	SM 2540C-2015	755730		
92651382014	**YAT-YGWA-14S**	SM 2540C-2015	755730		
92651382015	**YAT-YGWA-3I**	SM 2540C-2015	755730		
92651382016	**YAT-YGWA-3D**	SM 2540C-2015	755730		
92651382017	**YAT-YGWA-40**	SM 2540C-2015	755730		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgradient
Pace Project No.: 92651382

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651382018	**YAT-YGWA-4I**	SM 2540C-2015	755997		
92651382019	**YAT-YGWA-5I**	SM 2540C-2015	755997		
92651382001	**YAT-YGWA-1I**	SM 2320B-2011	755796		
92651382002	**YAT-YGWA-1D**	SM 2320B-2011	755796		
92651382003	**YAT-YGWA-2I**	SM 2320B-2011	755797		
92651382004	**YAT-GWA-2**	SM 2320B-2011	755797		
92651382005	**YAT-YGWA-5D**	SM 2320B-2011	755797		
92651382006	**YAT-YGWA-20S**	SM 2320B-2011	755797		
92651382007	**YAT-YGWA-21I**	SM 2320B-2011	755797		
92651382008	**YAT-YGWA-17S**	SM 2320B-2011	755797		
92651382009	**YAT-YGWA-18S**	SM 2320B-2011	755797		
92651382010	**YAT-YGWA-18I**	SM 2320B-2011	755797		
92651382011	**YAT-YGWA-39**	SM 2320B-2011	755797		
92651382012	**YAT-YGWA-47**	SM 2320B-2011	756119		
92651382013	**YAT-YGWA-30I**	SM 2320B-2011	756119		
92651382014	**YAT-YGWA-14S**	SM 2320B-2011	756119		
92651382015	**YAT-YGWA-3I**	SM 2320B-2011	756119		
92651382016	**YAT-YGWA-3D**	SM 2320B-2011	756119		
92651382017	**YAT-YGWA-40**	SM 2320B-2011	756119		
92651382018	**YAT-YGWA-4I**	SM 2320B-2011	756264		
92651382019	**YAT-YGWA-5I**	SM 2320B-2011	756264		
92651382001	**YAT-YGWA-1I**	EPA 300.0 Rev 2.1 1993	755105		
92651382002	**YAT-YGWA-1D**	EPA 300.0 Rev 2.1 1993	755105		
92651382003	**YAT-YGWA-2I**	EPA 300.0 Rev 2.1 1993	755105		
92651382004	**YAT-GWA-2**	EPA 300.0 Rev 2.1 1993	755105		
92651382005	**YAT-YGWA-5D**	EPA 300.0 Rev 2.1 1993	755105		
92651382006	**YAT-YGWA-20S**	EPA 300.0 Rev 2.1 1993	755105		
92651382007	**YAT-YGWA-21I**	EPA 300.0 Rev 2.1 1993	755105		
92651382008	**YAT-YGWA-17S**	EPA 300.0 Rev 2.1 1993	755105		
92651382009	**YAT-YGWA-18S**	EPA 300.0 Rev 2.1 1993	755105		
92651382010	**YAT-YGWA-18I**	EPA 300.0 Rev 2.1 1993	755105		
92651382011	**YAT-YGWA-39**	EPA 300.0 Rev 2.1 1993	755105		
92651382012	**YAT-YGWA-47**	EPA 300.0 Rev 2.1 1993	755595		
92651382013	**YAT-YGWA-30I**	EPA 300.0 Rev 2.1 1993	755595		
92651382014	**YAT-YGWA-14S**	EPA 300.0 Rev 2.1 1993	755595		
92651382015	**YAT-YGWA-3I**	EPA 300.0 Rev 2.1 1993	755597		
92651382016	**YAT-YGWA-3D**	EPA 300.0 Rev 2.1 1993	755597		
92651382017	**YAT-YGWA-40**	EPA 300.0 Rev 2.1 1993	755597		
92651382018	**YAT-YGWA-4I**	EPA 300.0 Rev 2.1 1993	755672		
92651382019	**YAT-YGWA-5I**	EPA 300.0 Rev 2.1 1993	755672		

REPORT OF LABORATORY ANALYSIS

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Me ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92651382

92651382

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/8/23 DW

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.7 Correction Factor: Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 4.8

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project # **WO#: 92651382**

PM: BV Due Date: 02/22/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO# : 92651382**

PM: BV Due Date: 02/22/23

CLIENT: GA-GA Power

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/8/23 CM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.7 Correction Factor: Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 4.8

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

*Bottom half of box is to list number of bottles
**Check all unpreserved Nitrates for chlorine

Project #

WO#: 92651382

PM: BV Due Date: 02/22/23
CLIENT: GA-GA Power

Item #	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt
	Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO# : 92651382**

PM: BV Due Date: 02/22/23

CLIENT: GA-GA Power

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/8/23 CM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.7 Correction Factor: Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 4.8

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

aboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/8/23 CM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.7 **Correction Factor:** Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 4.8

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

***Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.**

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

*****Check all unpreserved Nitrates for chlorine**

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	V69T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, Incorrect preservative, out of temp, incorrect containers.

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

.aboratory receiving samples:

Asheville ☐ **Eden** ☐ **Greenwood** ☐ **Huntersville** ☐ **Raleigh** ☐ **Mer** ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92651382

PM: BV **Due Date: 02/22/23**

CLIENT: GA-GA Power

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☑ Pace ☐ Client ☐ Other:

Custody Seal Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/9/23 CAE

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.1 **Correction Factor:** Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 2.2

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: **Date:**

Project Manager SRF Review: **Date:**

Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

****Bottom half of box is to list number of bottles**

*****Check all unpreserved Nitrates for chlorine**

Project #

WO#: 92651382

PM: BV **Due Date: 02/22/23**

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

aboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO# : 92651382**

PM: BV **Due Date: 02/22/23**

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: 2/9/23 CAR

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2c1 **Correction Factor:** Add/Subtract (°C) +01

Cooler Temp Corrected (°C): 2c2

Temp should be above freezing to 6°C

☐ Samples out of temp criteria. Samples on ice, cooling process has begun

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis; Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace	DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt
	Effective Date: 11/14/2022

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project # **WO# : 92651382**

PM: BV Due Date: 02/22/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

DC#_Title: ENV-FRM-HUN1-0083 v02_Sample Condition Upon Receipt

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO#: 92651382

PM: BV Due Date: 02/22/23

CLIENT: GA-GA Power

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☑ Pace ☐ Client ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No

Date/Initials Person Examining Contents: 2/9/23 CA

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.1 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): 2.2

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)? ☐ Yes ☐ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☐ No

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.

Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

**Bottom half of box is to list number of bottles

***Check all unpreserved Nitrates for chlorine

Project #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1U	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DENR Certification Office (i.e. Out of hold, incorrect preservative, out of temp, incorrect containers.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202391	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Olier Barnes Vang
Requested Due Date:	Standard TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	Requested Analysis Filtered (Y/N): App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651382
1	YAT-YGWA-39	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
2	YAT-YGWA-40	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
3	YAT-YGWA-1I	WG	G	2/7/23	1145	--	--		6	3		3							X	X	X	X	X			pH: 6.53 DCJ
4	YAT-YGWA-1D	WG	G	2/7/23	1340	--	--		6	3		3							X	X	X	X	X			pH: 7.86 DCJ
5	YAT-YGWA-2I	WG	G	2/7/23	1540	--	--		6	3		3							X	X	X	X	X			pH: 6.94 DCJ
6	YAT-YGWA-3I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-3D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
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ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jake Swanson (Arcadis	2/8/23	0800	[signature] Arc	2/8/23	0800	
App III Metals: Boron 6020B, Ca 6010D; App VIII 6020B: Zn, Ag, Ni, V	[signature] /Arc	2/8/23	0900	Ryan Williams / Pace	2/9/23	0900	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A; Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**	Ryan Williams / Pace	2/9/23	1240				

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:	(Arcadis) - Jake Swanson					
SIGNATURE of SAMPLER:	(Arcadis) - [signature]	DATE Signed: 2/8/23				

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S1	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole D'Oleo~~ Bonnie
Requested Due Date:	Standard TAT	Project Number:		Pace Profile #:	10840 Vary

Regulatory Agency: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651382
1	YAT-YGWA-47	WG	G			--	--		6	3		3						X	X	X	X	X			pH: 5.94
2	YAT-GWA-2	WG	G	2/1/23	1148	--	--		6	3		3						X	X	X	X	X	X		pH: 6.24
3	YAT-YGWA-4I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
4	YAT-YGWA-5I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
5	YAT-YGWA-5D	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
6	YAT-YGWA-17S	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
7	YAT-YGWA-18S	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
8	YAT-YGWA-18I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
9	YAT-YGWA-20S	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
10	YAT-YGWA-21I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
11	YAT-YGWA-30I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
12	YAT-YGWA-14S	WG	G			--	--		6	3		3						X	X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Mark Chastain (Arcadis)	2/3/23	0900	Ryan Williams / Pace	2/3/23	0900	
App III Metals: Boron 6020B, Ca 6010D; App VIII 6020B: Zn, Ag, Ni, V	Ryan Williams / Pace	2/4/23	1240				
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity – report total, carbonate, and bicarbonate**							

SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER:	Mark Chastain - Arcadis		
SIGNATURE of SAMPLER: Arcadis	Mark Chastain	DATE Signed:	2/3/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202351	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole D'Orio~~ Kenneth Kang
Requested Due Date:	Std TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test: App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651382
1	YAT-YGWA-47	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
2	YAT-GWA-2	WG	G			--	--		6	3		3						X	X	X	X	X	X		pH:
3	YAT-YGWA-4I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
4	YAT-YGWA-5I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
5	YAT-YGWA-5D	WG	G	2/7/23	1622	--	--		6	3		3						X	X	X	X	X			pH: 6.64 005
6	YAT-YGWA-17S	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
7	YAT-YGWA-18S	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
8	YAT-YGWA-18I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
9	YAT-YGWA-20S	WG	G	2/7/23	1450	--	--		6	3		3						X	X	X	X	X			pH: 5.63 006
10	YAT-YGWA-21I	WG	G	2/7/23	1248	--	--		6	3		3						X	X	X	X	X			pH: 6.82 007
11	YAT-YGWA-30I	WG	G			--	--		6	3		3						X	X	X	X	X			pH:
12	YAT-YGWA-14S	WG	G			--	--		6	3		3						X	X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Kim Lapszynski /Arcadis	2/8/23	0800		2/8/23	0800	
App III Metals: Boron 6020B, Ca 6010D; App III 6020B: Zn, Ag, Ni, V	Kim Lapszynski	2/8/23	0900	Ryan Williams / Pace	2/8/23	0906	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	Ryan Williams / Pace	2/8/23	1240				

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:	Kim Lapszynski					
SIGNATURE of SAMPLER:		DATE Signed: 2/8/23				

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 1 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202351	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager: ~~Nicole D'Oleo~~ Bonnie Wang	
Requested Due Date:	Std TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency: State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / H (gypsum only)	Residual Chlorine (Y/N)	92651342
1	YAT-YGWA-47	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
2	YAT-GWA-2	WG	G			--	--		6	3		3							X	X	X	X	X	X		pH:
3	YAT-YGWA-4I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
4	YAT-YGWA-5I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
5	YAT-YGWA-5D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
6	YAT-YGWA-17S	WG	G	2/7/23	1116	--	--		6	3		3							X	X	X	X	X			pH: 5.47 DDB
7	YAT-YGWA-18S	WG	G	2/7	1348	--	--		6	3		3							X	X	X	X	X			pH: 5.03 DDB
8	YAT-YGWA-18I	WG	G	2/7	1231	--	--		6	3		3							X	X	X	X	X			pH: 6.00 DW
9	YAT-YGWA-20S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
10	YAT-YGWA-21I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
11	YAT-YGWA-30I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
12	YAT-YGWA-14S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware /Arcadis	2/8/23	0800	Ryan William /Pace	2/9/23	0805	
App III Metals: Boron 6020B, Ca 6010D; App IV 6020B: Zn, Ag, Ni, V	Ryan William /Pace	2/9/23	0900	Ryan William /Pace	2/9/23	0906	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**	Ryan William /Pace	2/8/23	1240				

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Jessica Ware - Arcadis					
SIGNATURE of SAMPLER:	Jessica Ware (Arcadis)	DATE Signed: 2/8/23				

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S1	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	9265/382
1	YAT-YGWA-39	WG	G	2/7	1615	--	--		6	3		3							X	X	X	X	X			pH: 5.49 ON
2	YAT-YGWA-40	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
3	YAT-YGWA-1I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
4	YAT-YGWA-1D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
5	YAT-YGWA-2I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
6	YAT-YGWA-3I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-3D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
8						--	--																			pH:
9						--	--																			pH:
10						--	--																			pH:
11						--	--																			
12						--	--																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware /Arcadis	2/8/23	0806	[signature] 2/8/23	2/8/23	0800	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	[signature] /Arc	2/8/23	0800	Ryan William / Pace	2/9/23	0900	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**	Ryan William / Pace	2/9/23	1240				

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) Jessica Ware

SIGNATURE of SAMPLER: (Arcadis) [signature] DATE Signed: 2/8/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax
Requested Due Date:	STD TAT

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-2023S1
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	~~Nicole D'Oleo~~ Brianne Vann
Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	
1	YAT-YGWA-47	WG	G	2/2/23	1702	--	--		6	3		3							X	X	X	X	X			pH: 5.22 0012
2	YAT-GWA-2	WG	G			--	--		6	3		3							X	X	X	X	X	X		pH:
3	YAT-YGWA-4I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
4	YAT-YGWA-5I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
5	YAT-YGWA-5D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
6	YAT-YGWA-17S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-18S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
8	YAT-YGWA-18I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
9	YAT-YGWA-20S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
10	YAT-YGWA-21I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
11	YAT-YGWA-30I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
12	YAT-YGWA-14S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:

Matrix codes: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

GW61382

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	[signature] /Arcadis	2/9/23	0920	Ryan Williams / Pace	2/9/23	0920	
App III Metals: Boron 6020B, Ca 6010D; App VIII 6020B: Zn, Ag, Ni, V	Ryan Williams / Pace	2/9/23	1235	[signature]	2/9/23	1235	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate							

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Mark Crest - Arcadis

SIGNATURE of SAMPLER: [signature] DATE Signed: 2/9/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S1	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:	STD TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

Matrix codes: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	9605382
1	YAT-YGWA-47	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
2	YAT-GWA-2	WG	G			--	--		6	3		3							X	X	X	X	X	X			pH:
3	YAT-YGWA-4I	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
4	YAT-YGWA-5I	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
5	YAT-YGWA-5D	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
6	YAT-YGWA-17S	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
7	YAT-YGWA-18S	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
8	YAT-YGWA-18I	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
9	YAT-YGWA-20S	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
10	YAT-YGWA-21I	WG	G			--	--		6	3		3							X	X	X	X	X				pH:
11	YAT-YGWA-30I	WG	G	2/8	1510	--	--		6	3		3							X	X	X	X	X				pH: 6.43 013
12	YAT-YGWA-14S	WG	G	2/8	1350	--	--		6	3		3							X	X	X	X	X				pH: 5.39 014

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/23	830	/AUS	2/9/23	0830	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	/AUS	2/9/23	920	Ryan Williams / Pace	2/9/23	0920	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**	Ryan Williams / Pace	2/9/23	1235		2/9/23	1235	

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:	Jake Swanson					
SIGNATURE of SAMPLER:		DATE Signed: 2/9/23				

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S1	Address:	
Email To:	jaucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:	STD TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	12651382
1	YAT-YGWA-39	WG	G			--	--		6	3		3							X	X	X	X	X			
2	YAT-YGWA-40	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
3	YAT-YGWA-1I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
4	YAT-YGWA-1D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
5	YAT-YGWA-2I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
6	YAT-YGWA-3I	WG	G	2/8	1000	--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-3D	WG	G	2/8	1140	--	--		6	3		3							X	X	X	X	X			pH:
8						--	--																			pH:
9						--	--																			pH:
10						--	--																			pH:
11						--	--																			
12						--	--																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/23	820	/AWS	2/9/23	0827	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	/AWS	2/9/23	0820	Ryan William /Pace	2/9/23	0900	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	Ryan William /Pace	2/9/23	1235		2/9/23	1235	

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:	(Arcadis) - Jake Swanson						
SIGNATURE of SAMPLER:	(Arcadis) -	DATE Signed:	2/4/23				

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax:
Requested Due Date:	5-10 TAT

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-2023S1
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C — Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	
Pace Project Manager:	~~Nicole O'Dea~~ Ronnie Vans
Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

Requested Analyses Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 903.1/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651382
1	YAT-YGWA-39	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
2	YAT-YGWA-40	WG	G	2/8/23	1202	--	--		6	3		3							X	X	X	X	X			pH: 5.71 OK
3	YAT-YGWA-1I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
4	YAT-YGWA-1D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
5	YAT-YGWA-2I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
6	YAT-YGWA-3I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-3D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
8						--	--																			pH:
9						--	--																			pH:
10						--	--																			pH:
11						--	--																			
12						--	--																			

Matrix codes: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	2/9/23	0900	/Pace	2/9/23	0900	
App III Metals: Boron 6020B, Ca 6010D; App IV 6020B: Zn, Ag, Ni, V	/Arcadis	2/9/23	0920	/Pace	2/9/23	0920	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). **Also add Ca, Na, K for this event.** **Alkalinity - report total, carbonate, and bicarbonate**	/Pace	2/9/23	1235	/Pace	2/9/23	1235	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) -

SIGNATURE of SAMPLER: (Arcadis) - DATE Signed: 2/9/23

TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : | Of |

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-292351	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole D'Otero~~ Bonnie Vang
Requested Due Date:	Std TAT	Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

State / Location

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique)	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / II (gypsum only)	Residual Chlorine (Y/N)	92651382
1	YAT-YGWA-47	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
2	YAT-GWA-2	WG	G			--	--		6	3		3							X	X	X	X	X	X		pH:
3	YAT-YGWA-4I	WG	G	2/1/23	0955	--	--		6	3		3							X	X	X	X	X			pH: 6.23 018
4	YAT-YGWA-5I	WG	G	2/1/23	1126	--	--		6	3		3							X	X	X	X	X			pH: 5.90 119
5	YAT-YGWA-5D	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
6	YAT-YGWA-17S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
7	YAT-YGWA-18S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
8	YAT-YGWA-18I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
9	YAT-YGWA-20S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
10	YAT-YGWA-21I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
11	YAT-YGWA-30I	WG	G			--	--		6	3		3							X	X	X	X	X			pH:
12	YAT-YGWA-14S	WG	G			--	--		6	3		3							X	X	X	X	X			pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Kim Lapszynski /Arcadis	2/10/23	1200	/Arcadis	2/10/23	1200	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V							
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	/Arcadis	2/10/23	1400		2/10/23	1400	

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:	Kim Lapszynski					
SIGNATURE of SAMPLER:		DATE Signed: 2/10/23				

WO# : 92651382

PM: BV Due Date: 02/22/23

CLIENT: GA-GA Power

Appendix B

Field Sampling Reports

August 2022

August 2022 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest/ Jessica Ware/ Khalil Carson/ Jake Swanson/ David Prouty

Instrument Calibration

Date: 08/30/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 925534 (Mark Chest)	SmarTROLL SN 509263 (Jessica Ware)	SmarTROLL SN 870001 (Khalil Carson)	SmarTROLL SN 925153 (Jake Swanson)	SmarTROLL SN 518546 (David Prouty)
DO	% saturation	100	100	100	100	100	100
Conductivity	us/cm	1413	1413	1409	1413	1409	1409
pH	S.U.	4.00	4.00	4.01	4.01	4.00	4.01
pH	S.U.	7.00	7.00	6.99	6.99	7.00	7.00
pH	S.U.	10.00	10.00	9.95	9.95	10.00	10.00
ORP	mV	220.0	220.0	220.0	220.0	228.3	226.8

Parameter	Units	Standard	Geotech (Mark Chest)	Geotech (Jessica Ware)	Geotech (Khalil Carson)	Geotech (Jake Swanson)	Geotech (David Prouty)
Turbidity	NTU	20.0	20.8	19.8	19.7	0.02	19.8
Turbidity	NTU	100	101	100	101	20.0	101
Turbidity	NTU	800	799	802	813	100	806
Turbidity	NTU	<0.10	0.08	0.02	0.02	801	0.1

Date: 08/30/2022 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 925534 (Mark Chest)	SmarTROLL SN 509263 (Jessica Ware)	SmarTROLL SN 509271 (Khalil Carson)	SmarTROLL SN 925153 (Jake Swanson)	SmarTROLL SN 518546 (David Prouty)
DO	% saturation	100	100	100	100	100	100
Conductivity	us/cm	1409	1419	1409	1413	1409	1409
pH	S.U.	4.00	4.01	4.02	4.01	4.01	4.02
pH	S.U.	7.00	6.99	6.98	6.99	6.99	6.98
pH	S.U.	10.00	9.95	9.91	9.95	9.95	9.95
ORP	mV	220.0	220.0	220.0	220.0	220.0	220.2

Parameter	Units	Standard	Geotech (Mark Chest)	Geotech (Jessica Ware)	Geotech (Khalil Carson)	Geotech (Jake Swanson)	Geotech (David Prouty)
Turbidity	NTU	20.0	20.0	19.8	19.7	0.02	--
Turbidity	NTU	100	98.2	100	98.8	20.0	--
Turbidity	NTU	800	793	804	796	100	--
Turbidity	NTU	<0.10	0.02	0.02	0.02	801	--

Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = Not Applicable

-- Calibration not performed

* Half day

August 2022 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest/ Jessica Ware/ Khalil Carson/ Jake Swanson/ David Prouty

Instrument Calibration

Date: 08/31/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 925534 (Mark Chest)	SmarTROLL SN 509263 (Jessica Ware)	SmarTROLL SN 509271 (Khalil Carson)	SmarTROLL SN 925153 (Jake Swanson)	SmarTROLL SN 518546 (David Prouty)
DO	% saturation	100	100	100	100	100	100
Conductivity	us/cm	1413	1413	1409	1413	1409	1409
pH	S.U.	4.00	4.00	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00	7.00	7.00	7.00
pH	S.U.	10.00	10.00	10.05	10.00	10.00	10.00
ORP	mV	220.0	220.0	220.0	220.0	220.0	232.0

Parameter	Units	Standard	Geotech (Mark Chest)	Geotech (Jessica Ware)	Geotech (Khalil Carson)	Geotech (Jake Swanson)	Geotech (David Prouty)
Turbidity	NTU	20.0	21.0	19.6	20.5	0.02	19.9
Turbidity	NTU	100	101	101	102	20.0	109
Turbidity	NTU	800	813	800	806	100	804
Turbidity	NTU	<0.10	0.02	0.02	0.04	801	0.02

Date: 08/31/2022 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 925534 (Mark Chest)	SmarTROLL SN 509263 (Jessica Ware)	SmarTROLL SN 509271 (Khalil Carson)	SmarTROLL SN 925153 (Jake Swanson)	SmarTROLL SN 870001 (David Prouty)
DO	% saturation	100	NA*	100	100	100	100
Conductivity	us/cm	1409	NA*	1409	1413	1409	1409
pH	S.U.	4.00	NA*	4.01	4.01	4.02	4.01
pH	S.U.	7.00	NA*	6.98	6.99	6.98	6.99
pH	S.U.	10.00	NA*	9.95	9.95	9.91	9.97
ORP	mV	220.0	NA*	220.0	220.0	220.0	223.3

Parameter	Units	Standard	Geotech (Mark Chest)	Geotech (Jessica Ware)	Geotech (Khalil Carson)	Geotech (Jake Swanson)	Geotech (David Prouty)
Turbidity	NTU	20.0	NA*	19.5	18.9	0.02	--
Turbidity	NTU	100	NA*	99.9	99.1	20.0	--
Turbidity	NTU	800	NA*	796	792	100	--
Turbidity	NTU	<0.10	NA*	0.02	0.02	801	--

Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = Not Applicable

-- Calibration not performed

* Half day

August 2022 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest/ Jessica Ware/ Khalil Carson/ Jake Swanson/ David Prouty

Instrument Calibration

Date: 09/01/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 925534 (Mark Chest)	SmarTROLL SN 509263 (Jessica Ware)	SmarTROLL SN 509271 (Khalil Carson)	SmarTROLL SN 925153 (Jake Swanson)	SmarTROLL SN 518546 (David Prouty)
DO	% saturation	100	100	100	100	100	100
Conductivity	us/cm	1413	1413	1409	1413	1409	1409
pH	S.U.	4.00	4.00	4.00	4.01	4.00	4.00
pH	S.U.	7.00	7.00	7.00	6.99	7.02	7.02
pH	S.U.	10.00	10.00	10.00	9.95	10.05	10.05
ORP	mV	220.0	220.0	220.0	220.0	220.0	233.9

Parameter	Units	Standard	Geotech (Mark Chest)	Geotech (Jessica Ware)	Geotech (Khalil Carson)	Geotech (Jake Swanson)	Geotech (David Prouty)
Turbidity	NTU	20.0	20.4	20.3	20.7	0.02	19.8
Turbidity	NTU	100	101	100	101	20.0	103
Turbidity	NTU	800	803	801	803	100	802
Turbidity	NTU	<0.10	0.02	0.02	0.09	801	0.02

Date: 09/01/2022 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 925534 (Mark Chest)	SmarTROLL SN 509263 (Jessica Ware)	SmarTROLL SN 509271 (Khalil Carson)	SmarTROLL SN 925153 (Jake Swanson)	SmarTROLL SN 518546 (David Prouty)
DO	% saturation	100	NA*	100	100	100	NA*
Conductivity	us/cm	1409	NA*	1409	1413	1409	NA*
pH	S.U.	4.00	NA*	4.01	4.01	4.01	NA*
pH	S.U.	7.00	NA*	6.99	6.99	6.99	NA*
pH	S.U.	10.00	NA*	10.00	9.95	9.95	NA*
ORP	mV	220.0	NA*	220.0	220.0	220.0	NA*

Parameter	Units	Standard	Geotech (Mark Chest)	Geotech (Jessica Ware)	Geotech (Khalil Carson)	Geotech (Jake Swanson)	Geotech (David Prouty)
Turbidity	NTU	20.0	NA*	20.3	19.8	0.02	NA*
Turbidity	NTU	100	NA*	101	97.3	20.0	NA*
Turbidity	NTU	800	NA*	806	797	100	NA*
Turbidity	NTU	<0.10	NA*	0.02	0.02	801	NA*

Notes:

DO - Dissolved Oxygen; us/cm - microsiemens/centimeter; ORP - oxidation-reduction potential; mV - millivolts; NTU - Nephelometric Turbidity Units; NC - Not calibrated

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = Not Applicable

-- Calibration not performed

* Half day

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	Gypsum Landfill
Date:	8/29/2022
Sampler:	Jake Swanson
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
GWC-3R	8/29/2022	09:24:00	28.05	38.35	--
GWC-5R	8/29/2022	09:32:00	29.02	42.77	--
GWA-2	8/29/2022	09:39:00	36.23	52.13	--
GWC-6R	8/29/2022	09:43:00	34.68	51.87	--
GWC-1R	8/29/2022	09:48:00	22.98	36.41	--
GWC-4R	8/29/2022	09:53:00	16.25	30.20	--
GWC-2R	8/29/2022	09:57:00	28.53	44.00	--

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/30/2022 3:19:57 PM -04:00

Project Number	30143608	**Well ID**	GWC-1R			**Date**	08/30/2022
Project Location	Gypsum Landfill		**Weather(°F)**	Clear 85			
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)	22.92	**Total Depth (ft-bmp)**	36.41	**Water Column(ft)**	13.49	**Gallons in Well**	2.19
MP Elevation	773.27	**Pump Intake (ft-bmp)**	31	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:40	**Well Volumes Purged**	0.18	**Sample ID**	GWC-1R	**Sampled by**	David Prouty
Purge Start	12:23	**Gallons Purged**	0.40	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:22						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:23:00	00:00	100	22.92	5.14	1506.43	0.56	6.86	23.5	152.60
12:28:00	05:00	100	23.45	5.01	1512.45	1.64	6.71	23.1	171.79
12:32:00	09:11	100	23.46	5.02	1503.04	3.26	6.62	23.1	175.24
12:33:00	10:01	100	23.46	5.02	1504.20	2.46	6.61	23.1	178.49
12:38:00	15:01	100	23.46	5.07	1512.76	3.32	6.55	23.3	180.25

Constituent Sampled	Container	Number	Preservative
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
Anions	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/30/2022 7:53:57 PM -04:00

Project Number	30052922	**Well ID**	GWC-3R			**Date**	08/30/2022
Project Location	Gypsum Landfill		**Weather(°F)**	88.2 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)**	28.05	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	28.03	**Total Depth (ft-bmp)**	38.35	**Water Column(ft)**	10.32	**Gallons in Well**	1.68
MP Elevation	775.25	**Pump Intake (ft-bmp)**	33	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:35	**Well Volumes Purged**	1.32	**Sample ID**	GWC-3R	**Sampled by**	Jake Swanson
Purge Start	14:32	**Gallons Purged**	2.22	**Replicate/ Code No.**	G-FB-1 and G-EB-1	**Color**	Clear
Purge End	15:28						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:32:00	00:00	150	28.03	5.94	217.75	3.89	7.17	34.6	177.44
14:37:00	05:00	150	28.33	4.73	169.95	3.33	7.53	24.9	217.79
14:42:00	10:00	150	28.35	4.85	153.73	5.34	7.67	23.4	210.00
14:47:00	15:00	150	28.36	4.90	136.51	5.11	7.79	23.2	212.33
14:52:00	20:00	150	28.37	4.93	149.93	4.79	7.76	23.2	209.93
14:57:00	25:00	150	28.4	4.97	133.52	3.57	7.72	23.2	214.12
15:02:00	30:00	150	28.4	4.97	164.22	2.71	7.69	23.2	217.23
15:03:00	30:59	150	28.4	4.97	137.51	2.71	7.69	23.3	218.22
15:08:00	35:59	150	28.41	4.95	141.58	2.73	7.70	23.2	223.23
15:13:00	40:59	150	28.43	4.91	164.70	2.68	7.71	23.2	226.64
15:18:00	45:59	150	28.43	4.88	137.08	2.95	7.73	23.1	231.47
15:23:00	50:59	150	28.43	4.86	134.40	2.42	7.77	23.0	235.48
15:28:00	55:59	150	28.43	4.85	130.56	2.66	7.79	23.0	237.45

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Chloride,F, SO4	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Well Locked at Arrival: _____

Groundwater Sampling Form

Updated : 8/30/2022 7:53:58 PM -04:00

Project Number	30052922	**Well ID**	GWC-5R			**Date**	08/30/2022
Project Location	Gypsum Landfill		**Weather(°F)**	72.0 degrees F and Fog. The wind is blowing E/SE at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	32.47	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	29.02	**Total Depth (ft-bmp)**	42.77	**Water Column(ft)**	13.75	**Gallons in Well**	2.23
MP Elevation	782.45	**Pump Intake (ft-bmp)**	37	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:40	**Well Volumes Purged**	1.10	**Sample ID**	GWC-5R	**Sampled by**	Jake Swanson
Purge Start	11:02	**Gallons Purged**	2.46	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:34						

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)
11:02:00	00:00	100	29.02	5.46	1699.73	0.02	8.43	24.9	209.63
11:07:00	05:00	100	29.6	4.77	1834.77	10.21	8.04	21.7	229.32
11:12:00	10:00	100	29.65	4.72	1854.58	9.87	8.06	21.4	237.34
11:17:00	15:00	100	29.71	4.72	1862.81	9.14	8.08	21.4	239.93
11:22:00	20:00	100	29.74	4.74	1854.92	8.88	8.07	21.7	240.09
11:27:00	25:00	100	29.79	4.76	1838.07	9.35	8.05	21.5	240.64
11:30:00	27:58	100	29.79	4.76	1838.38	9.35	8.08	21.3	241.13
11:35:00	32:58	100	29.82	4.77	1824.87	9.12	8.08	21.2	239.88
11:40:00	37:58	100	29.83	4.77	1815.17	8.51	8.09	21.6	234.85
11:45:00	42:58	100	29.83	4.79	1797.53	8.73	8.06	22.3	228.33
11:50:00	47:58	100	29.83	4.81	1775.25	8.49	8.00	22.4	231.40
11:55:00	52:58	100	29.87	4.82	1764.54	7.85	7.99	22.7	229.70
12:00:00	57:58	100	29.87	4.83	1757.87	9.27	7.97	22.8	232.00
12:05:00	02:58	100	29.88	4.83	1747.05	7.65	8.02	22.7	231.95
12:10:00	07:58	100	29.88	4.85	1736.66	6.32	7.95	22.9	233.76
12:15:00	12:58	100	29.88	4.85	1728.92	5.89	7.94	23.0	234.41
12:20:00	17:58	100	29.83	4.86	1720.38	5.68	7.90	23.2	234.84
12:25:00	22:58	100	29.86	4.86	1709.21	3.10	7.89	23.3	235.52
12:30:00	27:58	100	29.83	4.86	1700.45	4.76	7.89	23.2	236.28
12:35:00	32:58	100	29.83	4.86	1692.23	4.71	7.86	23.3	236.64

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Chloride,F, SO4	250 mL Plastic	1	None

Groundwater Sampling Form

Updated : 8/30/2022 8:05:34 PM -04:00

Project Number	30143608	**Well ID**	GWC-4R			**Date**	08/30/2022
Project Location	Gypsum Landfill		**Weather(°F)**	Partly cloudy 88			
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)	16.16	**Total Depth (ft-bmp)**	30.2	**Water Column(ft)**	14.04	**Gallons in Well**	2.28
MP Elevation	757.48	**Pump Intake (ft-bmp)**	25	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:40	**Well Volumes Purged**	0.23	**Sample ID**	GWC-4R	**Sampled by**	David Prouty
Purge Start	15:10	**Gallons Purged**	0.53	**Replicate/ Code No.**	GLF-DUP-1	**Color**	Clear
Purge End	18:00						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:10:00	00:00	100	16.28	5.52	1095.99	3.30	0.19	23.4	137.93
15:15:00	05:00	100	16.41	5.49	1065.85	2.91	0.19	23.7	137.68
15:20:00	10:00	100	16.44	5.49	1024.91	1.31	0.25	24.1	138.40
15:25:00	15:00	100	16.44	5.49	1000.61	1.15	0.33	24.5	136.44
15:30:00	20:00	100	16.45	5.52	1001.99	1.89	0.43	24.3	133.11

Constituent Sampled	Container	Number	Preservative
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Anions	250 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form

Updated : 8/30/2022 8:05:35 PM -04:00

Project Number	30143608	**Well ID**	GWC-6R			**Date**	08/30/2022
Project Location	Gypsum Landfill		**Weather(°F)**	Cloudy 70			
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)	34.68	**Total Depth (ft-bmp)**	51.87	**Water Column(ft)**	17.19	**Gallons in Well**	2.79
MP Elevation	788.98	**Pump Intake (ft-bmp)**	46	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:10	**Well Volumes Purged**	0.30	**Sample ID**	GWC-6R	**Sampled by**	David Prouty
Purge Start	10:41	**Gallons Purged**	0.83	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:48						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:41:00	00:00	125	35.04	6.10	655.72	1.04	7.50	20.4	120.17
10:46:00	05:00	125	35.06	5.76	450.34	0.02	5.04	19.5	131.99
10:51:00	10:00	125	35.07	5.73	440.65	0.02	4.95	19.2	135.25
10:56:00	15:00	125	35.07	5.75	441.56	0.04	4.80	19.4	138.86
11:01:00	20:00	125	35.08	5.80	446.24	0.03	4.73	19.3	141.73
11:06:00	25:00	125	35.08	5.82	450.77	0.07	4.70	19.2	142.97

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Anions	250 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/31/2022 11:55:50 AM -04:00

Project Number	30143608	**Well ID**	GWC-2R			**Date**	08/31/2022
Project Location	Gypsum Landfill		**Weather(°F)**	71.4 degrees F and Cloudy. The wind is blowing N/NE at 3.4 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)	28.55	**Total Depth (ft-bmp)**	44	**Water Column(ft)**	15.45	**Gallons in Well**	2.51
MP Elevation	769.76	**Pump Intake (ft-bmp)**	39	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:25	**Well Volumes Purged**	0.21	**Sample ID**	GWC-2R	**Sampled by**	David Prouty
Purge Start	08:57	**Gallons Purged**	0.53	**Replicate/ Code No.**		**Color**	Clear
Purge End	09:58						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
08:57:00	00:00	100	28.7	5.29	631.19	1.16	5.12	20.3	151.25
09:02:00	05:00	100	28.7	5.24	637.22	0.95	5.26	20.2	145.48
09:07:00	10:00	100	28.7	5.22	646.17	1.06	5.28	20.2	140.59
09:12:00	15:00	100	28.7	5.24	638.93	0.53	5.19	20.1	139.18
09:17:00	20:00	100	28.7	5.23	643.39	1.70	5.22	20.1	140.13

Constituent Sampled	Container	Number	Preservative
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
Anions	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: NA

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: NA

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-3R
Person Gauging:	Jake Swanson
Date:	8/29/2022
Time:	09:24:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Cut vegetation				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWA-2
Person Gauging:	Jake Swanson
Date:	8/29/2022
Time:	09:39:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Cut vegetation				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-5R
Person Gauging:	Jake Swanson
Date:	8/29/2022
Time:	09:32:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Vegetation needs to be cut				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-6R
Person Gauging:	Jake Swanson
Date:	8/29/2022
Time:	09:43:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Cut vegetation				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-2R
Person Gauging:	Jake Swanson
Date:	8/29/2022
Time:	09:57:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Cut vegetation				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-4R
Person Gauging:	Jake Swanson
Date:	8/29/2022
Time:	09:53:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Cut vegetation				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-1R
Person Gauging:	Jake Swanson
Date:	8/29/2022
Time:	09:48:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Cut vegetation				
8	Date by when corrective actions are needed:				

Upgradient Wells

August 2022

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/31/2022 7:46:53 PM -04:00

Project Number	30053438	**Well ID**	YGWA-4I			**Date**	08/31/2022
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	80 °F, Sunny, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	38.51	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	23.95	**Total Depth (ft-bmp)**	48.81	**Water Column(ft)**	24.86	**Gallons in Well**	4.04
MP Elevation	784.21	**Pump Intake (ft-bmp)**	45	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:37	**Well Volumes Purged**	0.39	**Sample ID**	YGWA-4I	**Sampled by**	Jessica Ware
Purge Start	14:54	**Gallons Purged**	1.59	**Replicate/ Code No.**		**Color**	Clear
Purge End	16:09						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:54:00	00:00	150	23.95	7.44	130.83	1.30	7.32	22.7	171.68
14:59:00	05:00	150	24.59	5.76	135.49	0.75	6.11	21.8	192.79
15:04:00	10:00	150	24.56	5.61	146.32	0.40	4.64	21.7	192.23
15:09:00	15:00	150	24.58	5.60	148.00	0.18	3.90	21.0	194.40
15:14:00	20:00	150	24.61	5.58	145.41	0.18	4.00	20.7	205.39
15:19:00	25:00	150	24.61	5.59	146.24	0.10	5.83	20.4	210.12
15:24:00	30:00	150	24.59	5.54	146.21	0.39	2.02	19.6	202.49
15:29:00	35:00	150	24.63	5.50	146.96	0.27	1.95	19.7	205.75
15:34:00	40:00	150	24.64	5.50	146.94	0.22	1.95	19.6	207.02

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250mL HDPE Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None

Comments: Sampled

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/30/2022 11:20:20 AM -04:00

Project Number	30053438	**Well ID**	YGWA-5I			**Date**	08/30/2022
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	72.9 degrees F and Fog/Mist. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	48.64	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	20.65	**Total Depth (ft-bmp)**	58.94	**Water Column(ft)**	38.29	**Gallons in Well**	6.22
MP Elevation	784.54	**Pump Intake (ft-bmp)**	53	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:52	**Well Volumes Purged**	0.26	**Sample ID**	YGWA-5I	**Sampled by**	Mark Chest
Purge Start	10:19	**Gallons Purged**	1.60	**Replicate/ Code No.**		**Color**	Clear
Purge End	10:49						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:19:00	00:00	200	20.65	5.66	85.76		6.54	18.0	201.34
10:19:00	00:20	200	20.65	5.36	82.81		6.50	17.4	210.79
10:24:00	05:20	200	21.65	4.90	82.41	0.55	6.13	17.1	232.62
10:29:00	10:20	200	21.66	4.75	81.15	0.92	6.12	17.1	243.71
10:34:00	15:20	200	21.65	4.82	82.39	1.03	6.19	17.2	240.12
10:39:00	20:20	200	21.65	5.05	82.15	1.72	6.16	17.3	233.32
10:44:00	25:20	200	21.67	5.01	82.90	0.43	6.17	17.4	238.95
10:49:00	30:20	200	21.67	5.00	82.09	0.41	6.17	17.4	240.28

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
TDS	1L Plastic	1	None
Metals	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: NA

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/30/2022 3:01:48 PM -04:00

Project Number	30053438	**Well ID**	YGWA-5D			**Date**	08/30/2022
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	74.5 degrees F and Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	78.83	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	21.96	**Total Depth (ft-bmp)**	129.13	**Water Column(ft)**	107.17	**Gallons in Well**	17.41
MP Elevation	784.53	**Pump Intake (ft-bmp)**	124	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:05	**Well Volumes Purged**	0.12	**Sample ID**	YGWA-5D	**Sampled by**	Mark Chest
Purge Start	11:25	**Gallons Purged**	2.14	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:00						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:25:00	00:00	200	21.96	6.77	198.80		4.08	20.0	184.74
11:26:00	00:17	200	21.96	6.80	198.26		2.67	19.2	34.77
11:31:00	05:17	200	22.99	7.46	223.19	0.02	0.14	17.9	-206.55
11:36:00	10:17	200	22.95	7.40	211.77	0.03	0.18	18.0	-225.81
11:41:00	15:17	200	22.95	7.36	208.20	0.02	0.20	18.3	-227.48
11:41:00	15:28	200	22.95	7.41	208.28	0.02	0.20	18.3	-229.94
11:46:00	20:28	200	22.95	7.40	206.51	0.02	0.21	18.0	-223.33
11:51:00	25:28	200	22.95	7.40	206.23	0.02	0.17	18.2	-220.02
11:56:00	30:28	200	22.95	7.40	205.72	0.02	0.19	18.2	-214.34
12:01:00	35:28	200	22.95	7.40	205.32	0.02	0.18	18.3	-211.56
12:06:00	40:28	200	22.95	7.40	205.22	0.02	0.19	18.3	-210.48

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well:

Well Locked at Departure:

Well Completion: NA

Key Number To Well: NA

Groundwater Sampling Form

Updated : 9/1/2022 10:02:42 PM -04:00

Project Number	30053438	**Well ID**	YGWA-17S			**Date**	08/30/2022
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	32 °C, Overcast, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	29.65	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	13.33	**Total Depth (ft-bmp)**	39.85	**Water Column(ft)**	26.52	**Gallons in Well**	4.31
MP Elevation	783.05	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:40	**Well Volumes Purged**	0.31	**Sample ID**	YGWA-17S	**Sampled by**	Jessica Ware
Purge Start	15:11	**Gallons Purged**	1.32	**Replicate/ Code No.**		**Color**	Clear
Purge End	16:01						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:11:00	00:00	200	13.33	5.18	92.71		2.71	22.6	198.73
15:16:00	05:00	200	13.58	4.89	91.82	1.08	1.61	21.5	209.01
15:21:00	10:00	200	13.59	4.81	91.68	0.91	1.50	21.0	214.69
15:26:00	15:00	200	13.62	4.73	91.72	0.99	1.53	20.9	222.92
15:31:00	20:00	200	13.61	4.70	91.70	1.51	1.49	20.6	225.77
15:36:00	25:00	200	13.62	4.68	91.28	1.47	1.48	20.5	228.01

Constituent Sampled	Container	Number	Preservative
Metals	250mL HDPE Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3

Comments: Sampled

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 9/1/2022 10:02:47 PM -04:00

Project Number	30053438	**Well ID**	YGWA-18S			**Date**	08/30/2022
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	74 °F, Overcast, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	29.97	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	21.48	**Total Depth (ft-bmp)**	39.97	**Water Column(ft)**	18.49	**Gallons in Well**	3
MP Elevation	790.57	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:10	**Well Volumes Purged**	0.40	**Sample ID**	YGWA-18S	**Sampled by**	Jessica Ware
Purge Start	09:37	**Gallons Purged**	1.19	**Replicate/ Code No.**		**Color**	Clear
Purge End	10:39						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (in)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:37:00	00:00	150	21.92	6.54	65.89	0.81	8.20	22.5	152.66
09:42:00	05:00	150		5.35	51.04		2.93	19.9	196.80
09:47:00	10:00	150	21.9	5.27	50.58	0.77	2.35	19.7	205.05
09:52:00	15:00	150	21.93	5.22	49.98	0.24	2.38	19.1	210.39
09:57:00	20:00	150	21.98	5.18	49.93	0.29	1.98	19.0	215.27
10:02:00	25:00	150	21.9	5.19	49.89	0.35	1.89	19.7	215.28
10:07:00	30:00	150	21.94	5.18	49.48	0.20	1.92	19.0	217.25

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None
Metals	250mL HDPE Plastic	1	HNO3

Comments: Sampled

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 9/1/2022 10:02:38 PM -04:00

Project Number	30053438	**Well ID**	YGWA-18I			**Date**	08/30/2022
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	76 °F, Overcast, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	69.67	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	24.46	**Total Depth (ft-bmp)**	79.97	**Water Column(ft)**	55.51	**Gallons in Well**	9.02
MP Elevation	790.57	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:35	**Well Volumes Purged**	0.18	**Sample ID**	YGWA-18I	**Sampled by**	Jessica Ware
Purge Start	10:50	**Gallons Purged**	1.59	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:04						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (in)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:50:00	00:00	150	24.46	6.14	106.03		8.41	22.5	152.49
10:55:00	05:00	150	24.53	6.25	102.96	1.12	4.10	21.7	170.86
11:00:00	10:00	150	24.52	5.99	103.96	0.67	3.27	21.1	174.65
11:05:00	15:00	150	24.55	5.84	105.27	0.02	3.35	21.0	173.55
11:10:00	20:00	150	24.54	5.82	105.80	0.02	3.61	20.7	176.59
11:15:00	25:00	150	24.56	5.81	105.70	0.02	3.74	20.6	179.03
11:20:00	30:00	150	24.56	5.82	105.91		3.83	20.4	181.31
11:25:00	35:00	150	24.56	5.87	106.36		3.94	21.0	178.86
11:30:00	40:00	150	24.56	5.89	109.49		3.93	21.5	176.97

Constituent Sampled	Container	Number	Preservative
Metals	250mL HDPE Plastic	1	HNO3
TDS	500 mL Plastic	1	None
RAD Chem	1L Plastic	2	None
Cl, F, SO4	250 mL Plastic	1	None

Comments: Compressor broke at 1124. Last reading at 11:20 was stable (dtw 24.56, turb 0.02). Got new compressor from Field and sampled at 13:35. Ok-ed by Mark Chest 8/30.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: NA

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/31/2022 1:51:50 PM -04:00

Project Number	30053438	**Well ID**	YGWA-20S			**Date**	08/31/2022
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	80 °F, , winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	19.22	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	11.57	**Total Depth (ft-bmp)**	29.52	**Water Column(ft)**	17.95	**Gallons in Well**	2.92
MP Elevation	767.12	**Pump Intake (ft-bmp)**	24.5	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:57	**Well Volumes Purged**	0.34	**Sample ID**	YGWA-20S	**Sampled by**	Jessica Ware
Purge Start	12:23	**Gallons Purged**	0.99	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:35						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:23:00	00:00	200	11.57	6.60	54.41	1.83	8.33	23.1	121.75
12:28:00	05:00	150	12.04	5.59	54.42	9.46	8.08	19.9	199.47
12:33:00	10:00	100	11.91	5.51	54.40	8.03	7.92	21.0	210.37
12:38:00	15:00	100	11.82	5.45	54.47	7.33	7.85	21.2	216.56
12:43:00	20:00	100	11.8	5.37	54.27	4.86	7.77	21.2	224.01
12:48:00	25:00	100	11.78	5.38	54.31	2.98	7.66	21.6	223.86
12:53:00	30:00	100	11.73	5.38	54.63	2.35	7.56	22.7	225.51

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250mL HDPE Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None

Comments: Sampled

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

Updated : 8/31/2022 2:06:34 PM -04:00

Project Number	30053438	**Well ID**	YGWA-21I			**Date**	08/30/2022
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	84.2 degrees F and Mostly Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	69.6	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	32.12	**Total Depth (ft-bmp)**	79.9	**Water Column(ft)**	47.78	**Gallons in Well**	7.76
MP Elevation	783.7	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:30	**Well Volumes Purged**	0.31	**Sample ID**	YGWA-21I	**Sampled by**	Mark Chest
Purge Start	13:52	**Gallons Purged**	2.38	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:27						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:52:00	00:00	300	32.12	7.45	175.48		7.87	32.5	157.78
13:57:00	05:00	250	35.55	7.08	197.65	2.22	0.28	21.0	-101.65
14:02:00	10:00	250	36	6.90	177.38	0.36	0.15	24.2	-98.85
14:07:00	15:00	250	36.12	6.82	170.35	0.02	0.16	22.1	-92.98
14:12:00	20:00	250	36.19	6.72	166.61	0.03	0.13	22.2	-92.82
14:17:00	25:00	250	36.27	6.64	161.22	0.02	0.12	22.3	-92.13
14:22:00	30:00	250	36.34	6.59	157.87	0.02	0.13	22.8	-91.59
14:27:00	35:00	250	36.41	6.58	155.91	0.00	0.13	23.4	-91.50

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
F, Cl, SO4	250 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: NA

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: NA

Groundwater Sampling Form

Updated : 8/31/2022 2:06:35 PM -04:00

Project Number	30053438	**Well ID**	YGWA-39			**Date**	08/31/2022
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	84.6 degrees F and Clear. The wind is blowing N/NW at 6.9 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	58.09	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	17.6	**Total Depth (ft-bmp)**	68.59	**Water Column(ft)**	50.99	**Gallons in Well**	8.29
MP Elevation	818.19	**Pump Intake (ft-bmp)**	63	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:50	**Well Volumes Purged**	0.25	**Sample ID**	YGWA-39	**Sampled by**	Mark Chest
Purge Start	13:06	**Gallons Purged**	2.11	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:46						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:06:00	00:00	200	17.6	7.01	352.92		2.46	22.9	24.34
13:11:00	05:00	200	18.25	5.84	383.57	1.89	0.09	19.6	85.04
13:16:00	10:00	200	18.34	5.77	376.89	0.65	0.05	19.5	94.91
13:21:00	15:00	200	18.37	5.67	371.48	0.43	0.04	19.4	106.56
13:26:00	20:00	200	18.39	5.54	366.27	0.02	0.04	19.4	119.01
13:31:00	25:00	200	18.44	5.44	361.38	0.02	0.04	19.4	127.52
13:36:00	30:00	200	18.39	5.37	363.20	0.36	0.04	19.2	133.20
13:41:00	35:00	200	18.4	5.33	359.98	0.02	0.05	19.3	137.26
13:46:00	40:00	200	18.41	5.30	364.75	1.09	0.04	19.3	139.19

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
F,Cl,SO4	250 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 9/2/2022 10:29:15 AM -04:00

Project Number	30053438	**Well ID**	YGWA-40			**Date**	08/31/2022
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	84.6 degrees F and Clear. The wind is blowing N/NW at 6.9 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	37.73	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	23.55	**Total Depth (ft-bmp)**	48.23	**Water Column(ft)**	24.68	**Gallons in Well**	4.01
MP Elevation	815.73	**Pump Intake (ft-bmp)**	42	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:40	**Well Volumes Purged**	0.40	**Sample ID**	YGWA-40	**Sampled by**	Mark Chest
Purge Start	16:06	**Gallons Purged**	1.59	**Replicate/ Code No.**		**Color**	Clear
Purge End	16:36						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
16:06:00	00:00	200		5.03	105.09		0.11	17.9	197.89
16:11:00	05:00	200	25.8	4.91	100.87	0.02	0.10	18.0	234.91
16:16:00	10:00	200	25.85	4.79	98.98	0.05	0.47	18.0	259.26
16:21:00	15:00	200	25.85	4.66	100.66	0.02	0.39	17.9	280.04
16:26:00	20:00	200	25.85	4.59	98.38	0.02	0.29	17.9	293.98
16:31:00	25:00	200	25.85	4.57	94.16	0.03	0.26	17.9	302.46
16:36:00	30:00	200	25.85	4.53	94.04	0.05	0.22	17.8	311.98

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
F, CL, SO4	250 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/31/2022 10:19:04 AM -04:00

Project Number	30053438	**Well ID**	YGWA-1I			**Date**	08/31/2022
Project Location	AP-2		**Weather(°F)**	71.1 degrees F and Cloudy. The wind is blowing N at 5.8 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	43.3	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	37.23	**Total Depth (ft-bmp)**	53.6	**Water Column(ft)**	16.37	**Gallons in Well**	2.66
MP Elevation	836.6	**Pump Intake (ft-bmp)**	49	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:10	**Well Volumes Purged**	0.48	**Sample ID**	YGWA-1I	**Sampled by**	Khalil Carson
Purge Start	08:22	**Gallons Purged**	1.27	**Replicate/ Code No.**		**Color**	Clear
Purge End	10:17						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
08:22:00	00:00	150	37.23	5.68	89.49		6.59	22.6	186.55
08:27:00	05:00	150	38.18	5.65	86.30	0.53	5.29	20.0	141.15
08:28:00	05:29	100	37.23	5.61	88.39	0.53	5.02	19.9	139.26
08:33:00	10:29	100	38.22	5.74	88.86	0.94	4.68	20.5	112.33
08:38:00	15:29	100	38.27	5.66	84.27	0.61	4.82	20.7	110.40
08:43:00	20:29	100	38.32	5.49	78.81	0.11	4.94	20.7	121.58
08:48:00	25:29	100	38.36	5.63	77.52	0.27	5.14	20.7	118.66
08:53:00	30:29	100	38.4	5.56	76.06	0.33	5.28	20.6	125.51
08:58:00	35:29	100	38.45	5.70	75.25	0.41	5.38	20.7	120.61
09:03:00	40:29	100	38.49	5.67	74.70	0.27	5.34	20.7	124.88
09:08:00	45:29	100	38.49	5.64	74.31	0.69	5.46	20.8	129.78

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
C,F,SO4	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3

Comments: -

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: NA

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: NA

Groundwater Sampling Form

Updated : 9/8/2022 4:54:30 PM -04:00

Project Number	30053438	**Well ID**	YGWA-1D			**Date**	08/30/2022
Project Location	AP-2		**Weather(°F)**	75.6 degrees F and Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	78.05	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	49.39	**Total Depth (ft-bmp)**	128.85	**Water Column(ft)**	79.46	**Gallons in Well**	12.91
MP Elevation	837.25	**Pump Intake (ft-bmp)**	108	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:50	**Well Volumes Purged**	0.12	**Sample ID**	YGWA-1D	**Sampled by**	Khalil Carson
Purge Start	13:15	**Gallons Purged**	1.59	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:30						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:15:00	00:00	200	145.6365	7.19	165.81		3.53	37.3	101.43
13:15:00	00:29	200	49.43	7.19	164.03		3.51	37.5	101.95
13:20:00	05:29	200	49.47	7.25	157.05	1.75	2.20	31.1	35.74
13:24:00	09:31	200	49.45	7.10	157.61	1.66	1.52	27.9	31.13
13:29:00	14:31	200	49.45	6.88	159.90	0.02	1.11	26.8	3.74
13:32:00	16:49	200	49.45	7.04	162.63		1.09	25.6	-16.24
13:37:00	21:49	200	49.45	7.11	163.02	1.71	0.98	25.2	-43.61
13:42:00	26:49	200	49.45	7.18	163.35	1.04	0.84	24.6	-59.45
13:47:00	31:49	200	49.45	7.20	161.94	0.66	0.78	24.4	-67.58

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Cl,F,SO4	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3

Comments: -

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/30/2022 7:27:49 PM -

Project Number	30053438	**Well ID**	YGWA-2I			**Date**	08/30/2022
Project Location	AP-2		**Weather(°F)**	Cloudy temp 77			
Measuring Pt. Description	Top of Outer Casing	**Screen Setting (ft-bmp)**	53.45	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	44.5	**Total Depth (ft-bmp)**	63.75	**Water Column(ft)**	19.25	**Gallons in Well**	3.13
MP Elevation	866.25	**Pump Intake (ft-bmp)**	60	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:00	**Well Volumes Purged**	0.30	**Sample ID**	YGWA-2I	**Sampled by**	Khalil Carson
Purge Start	09:24	**Gallons Purged**	0.92	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:43						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
9:24	00:00	200	44.5	7.10	173.92		8.48	23.4	178.94
9:29	05:00	200	45.65	6.83	180.62	2.33	4.00	20.9	-40.08
9:34	10:00	150	46.00	6.94	189.14	1.05	1.60	20.5	-72.2
9:39	15:00	50	46.38	7.01	189.31	0.41	1.13	21.3	-82.9
9:44	20:00	50	46.63	7.04	188.53	0.77	1.11	21.9	-89.1
9:49	25:00:00	50	46.71	7.05	186.33	1.76	1.04	22.4	-90.7
9:54	30:00:00	50	46.81	7.04	184.05	0.53	1.04	22.7	-87.2

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Anions	250 mL Plastic	1	HNO3

Comments: -

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/31/2022 1:51:49 PM -04:00

Project Number	30053438	**Well ID**	YGWA-3I			**Date**	08/31/2022
Project Location	AP-2		**Weather(°F)**	78 °F, Sunny, winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	48.85	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	53.22	**Total Depth (ft-bmp)**	59.05	**Water Column(ft)**	5.83	**Gallons in Well**	0.95
MP Elevation	796.55	**Pump Intake (ft-bmp)**	54	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:54	**Well Volumes Purged**	2.05	**Sample ID**	YGWA-3I	**Sampled by**	Jessica Ware
Purge Start	10:02	**Gallons Purged**	1.95	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:25						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:02:00	00:00	200	53.22	7.57	210.69	0.30	8.69	19.1	125.05
10:07:00	05:00	200	53.62	7.40	274.64	0.48	4.45	19.6	130.45
10:12:00	10:00	200	53.7	7.36	291.19	1.91	1.99	18.8	71.97
10:17:00	15:00	125	53.52	7.41	291.02	1.24	2.03	21.7	29.04
10:22:00	20:00	125	53.48	7.43	285.82	0.53	1.94	22.0	6.67
10:27:00	25:00	125	53.46	7.45	272.37	1.02	1.67	21.8	-19.80
10:32:00	30:00	125	53.44	7.46	258.51	0.67	1.44	22.1	-34.15
10:37:00	35:00	125	53.45	7.47	245.50	0.48	1.20	21.8	-44.37
10:42:00	40:00	125	53.46	7.47	235.31	0.27	1.05	21.8	-51.67
10:47:00	45:00	125	53.46	7.48	230.69	0.53	1.03	21.8	-54.62
10:52:00	50:00	125	53.47	7.49	228.11	0.40	1.08	21.9	-55.58

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250mL HDPE Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None

Comments: Sampled

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: NA

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: NA

Groundwater Sampling Form

Updated : 9/1/2022 10:02:45 PM -04:00

Project Number	30053438	**Well ID**	YGWA-3D			**Date**	08/31/2022
Project Location	AP-2		**Weather(°F)**	32 °F, , winds at mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	83.88	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	30.3	**Total Depth (ft-bmp)**	134.18	**Water Column(ft)**	103.88	**Gallons in Well**	16.88
MP Elevation	796.78	**Pump Intake (ft-bmp)**	113	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:30	**Well Volumes Purged**	0.07	**Sample ID**	YGWA-3D	**Sampled by**	Jessica Ware
Purge Start	08:57	**Gallons Purged**	1.19	**Replicate/ Code No.**		**Color**	Clear
Purge End	10:01						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
08:57:00	00:00	150	30.3	7.68	227.11		8.62	22.6	193.29
09:02:00	05:00	150	30.33	6.91	222.28	0.69	2.37	20.4	10.36
09:07:00	10:00	150	30.34	7.16	223.33	0.83	1.07	20.0	-40.45
09:12:00	15:00	150	30.32	7.45	222.32	0.60	0.70	19.5	-59.28
09:17:00	20:00	150	30.35	7.57	222.71	0.28	0.63	19.2	-73.91
09:22:00	25:00	150	30.36	7.62	222.83	0.02	0.62	19.4	-89.84
09:27:00	30:00	150	30.33	7.65	222.81	0.13	0.54	19.5	-102.82

Constituent Sampled	Container	Number	Preservative
Metals	250mL HDPE Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None

Comments: Sampled

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 9/1/2022 3:43:23 PM -04:00

Project Number	30053438	**Well ID**	YGWA-14S			**Date**	08/31/2022
Project Location	AP-2		**Weather(°F)**	83.7 degrees F and Clear. The wind is blowing N at 8.1 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	24.66	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	20.24	**Total Depth (ft-bmp)**	34.96	**Water Column(ft)**	14.72	**Gallons in Well**	2.39
MP Elevation	748.76	**Pump Intake (ft-bmp)**	30	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:15	**Well Volumes Purged**	1.03	**Sample ID**	YGWA-14S	**Sampled by**	Khalil Carson
Purge Start	13:10	**Gallons Purged**	2.47	**Replicate/ Code No.**		**Color**	Clear
Purge End	15:07						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:10:00	00:00	150	20.24	5.15	69.74		7.46	27.3	185.16
13:15:00	05:00	150	20.34	4.84	61.05	0.02	6.85	27.9	213.44
13:20:00	09:46	150	20.34	4.87	66.68	0.02	6.14	27.6	224.17
13:25:00	14:46	150	20.34	4.83	65.63	0.08	5.95	27.2	234.74
13:30:00	19:46	150	20.34	4.76	65.77	0.02	5.93	27.0	249.59
13:35:00	24:46	150	20.34	4.88	54.89	0.02	5.94	26.9	246.66
13:40:00	29:46	150	20.34	4.96	61.81	0.02	5.88	26.9	246.23
13:45:00	34:46	150	20.34	5.01	64.18	0.20	5.77	27.2	248.56
13:50:00	39:46	150	20.34	4.67	63.07	0.69	5.72	27.2	267.44
13:55:00	44:46	150	20.34	4.88	54.79	1.89	5.73	27.2	264.42
13:58:00	47:24	150	20.34	4.94	64.26	1.89	5.86	26.8	299.77
14:03:00	52:24	150	20.34	5.06	57.06	0.02	5.74	27.2	273.52
14:08:00	57:24	150	20.34	5.12	55.34	0.18	5.79	27.1	269.07
14:13:00	02:24	150	20.34	5.15	57.24	0.24	5.75	27.0	268.37

Constituent Sampled	Container	Number	Preservative
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Cl,F,SO4	250 mL Plastic	1	None

Comments: -

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Groundwater Sampling Form

Updated : 9/1/2022 3:43:22 PM -04:00

Project Number	30053438	**Well ID**	YGWA-30I			**Date**	08/31/2022
Project Location	AP-2		**Weather(°F)**	Partly cloudy 81			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	49.18	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	43.86	**Total Depth (ft-bmp)**	59.48	**Water Column(ft)**	15.62	**Gallons in Well**	2.54
MP Elevation	762.58	**Pump Intake (ft-bmp)**	54.5	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:30	**Well Volumes Purged**	0.67	**Sample ID**	YGWA-30I	**Sampled by**	Khalil Carson
Purge Start	10:44	**Gallons Purged**	1.70	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:00						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:44:00	00:00	150	44.36	6.64	58.07		8.59	24.5	133.57
10:49:00	05:00	150	44.36	6.63	59.21	1.32	8.48	25.9	121.26
10:55:00	10:49	150	43.9	6.71	58.93	0.71	8.27	27.4	152.70
10:57:00	12:53	150	43.9	6.60	55.09	1.12	8.58	27.2	161.79
11:02:00	17:53	150	43.9	6.13	53.46	1.31	7.97	26.4	148.39
11:07:00	22:53	150	43.9	5.58	54.11	0.81	7.48	25.8	178.08
11:12:00	27:53	150	43.9	5.74	54.08	0.85	7.38	25.2	175.12
11:17:00	32:53	150	43.9	5.78	54.88	0.02	7.25	25.1	178.57
11:22:00	37:53	150	43.9	5.84	54.83	0.14	7.14	25.2	180.65
11:27:00	42:53	150	43.9	5.87	54.57	0.41	7.07	25.4	182.89

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	125 mL Plastic	1	HNO3
TDS	250 mL Plastic	1	None
C,FL,SO4	125 mL Plastic	1	None

Comments: —

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

Updated : 8/30/2022 7:53:59 PM -04:00

Project Number	30052922	**Well ID**	GWA-2			**Date**	08/30/2022
Project Location	Gypsum Landfill		**Weather(°F)**	72.0 degrees F and Fog. The wind is blowing E/SE at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	42.1	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	36.28	**Total Depth (ft-bmp)**	52.13	**Water Column(ft)**	15.85	**Gallons in Well**	2.58
MP Elevation	805.62	**Pump Intake (ft-bmp)**	47	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:05	**Well Volumes Purged**	0.20	**Sample ID**	GWA-2	**Sampled by**	Jake Swanson
Purge Start	09:34	**Gallons Purged**	0.53	**Replicate/ Code No.**		**Color**	Clear
Purge End	09:54						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:34:00	00:00	100	36.28	5.79	189.14	0.77	1.60	20.5	-72.17
09:39:00	05:00	100	36.81	5.49	189.31	0.22	1.13	21.3	-82.91
09:44:00	10:00	100	36.9	5.35	188.53	0.31	1.11	21.0	-89.15
09:49:00	15:00	100	36.96	5.35	186.33	0.36	1.04	20.8	-90.65
09:54:00	20:00	100	37.03	5.39	184.04	0.43	1.04	20.8	-87.16

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Chloride,F, SO4	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: Upgradient well

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form

Updated : 8/31/2022 1:26:36 PM -04:00

Project Number	30052922	**Well ID**	YGWA-47			**Date**	08/31/2022
Project Location	AP-1		**Weather(°F)**	73 sunny			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	49.4	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	34.18	**Total Depth (ft-bmp)**	59.19	**Water Column(ft)**	25.01	**Gallons in Well**	4.06
MP Elevation	758.22	**Pump Intake (ft-bmp)**	54	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:15	**Well Volumes Purged**	0.20	**Sample ID**	YGWA-47	**Sampled by**	Jake Swanson
Purge Start	08:47	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	09:07						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
08:47:00	00:00	150	34.18	6.58	151.49	2.88	7.95	22.6	181.33
08:52:00	05:00	150	34.74	5.33	132.46	3.07	3.82	19.5	191.39
08:57:00	10:00	150	34.75	5.26	129.13	0.96	3.62	19.2	193.14
09:02:00	15:00	150	34.77	5.28	129.79	0.89	3.53	19.0	188.90
09:07:00	20:00	150	34.79	5.32	135.11	0.02	3.44	19.1	185.05

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Chloride,F, SO4	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA Key Number To Well: NA

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWA-2
Person Gauging:	Jake Swanson
Date:	8/29/2022
Time:	09:39:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Cut vegetation				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-1
Permit Number:	
Well ID:	YGWA-47
Person Gauging:	David Prouty
Date:	8/29/2022
Time:	10:23:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion,	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Cut vegetation				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-30I
Person Gauging:	Jake Swanson
Date:	8/29/2022
Time:	12:49:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Cut vegetation				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-14S
Person Gauging:	Jake Swanson
Date:	8/29/2022
Time:	12:39:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Cut vegetation				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-21I
Person Gauging:	Jessica Ware
Date:	8/29/2022
Time:	09:48:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWA-39
Person Gauging:	Jessica Ware
Date:	8/29/2022
Time:	13:12:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWA-40
Person Gauging:	Jessica Ware
Date:	8/29/2022
Time:	12:52:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☐	☑	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Area overgrown, should be cleared				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-18S
Person Gauging:	Jessica Ware
Date:	8/29/2022
Time:	12:17:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-18I
Person Gauging:	Jessica Ware
Date:	8/29/2022
Time:	12:14:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-17S
Person Gauging:	Jessica Ware
Date:	8/29/2022
Time:	12:06:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-5I
Person Gauging:	Jessica Ware
Date:	8/29/2022
Time:	10:22:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-5D
Person Gauging:	Jessica Ware
Date:	8/29/2022
Time:	10:11:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☑
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-20S
Person Gauging:	Jessica Ware
Date:	8/29/2022
Time:	09:51:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☐	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☐	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-4I
Person Gauging:	Jessica Ware
Date:	8/29/2022
Time:	09:55:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	No vehicle access, down trees				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-1I
Person Gauging:	Jessica Ware
Date:	8/29/2022
Time:	11:32:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-1D
Person Gauging:	Jessica Ware
Date:	8/29/2022
Time:	11:25:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-2I
Person Gauging:	Jessica Ware
Date:	8/29/2022
Time:	11:36:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-3I
Person Gauging:	Jessica Ware
Date:	8/29/2022
Time:	11:06:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-3D
Person Gauging:	Jessica Ware
Date:	8/29/2022
Time:	11:08:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	Gypsum Landfill
Date:	8/29/2022
Sampler:	Jake Swanson
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
GWC-3R	8/29/2022	09:24:00	28.05	38.35	--
GWC-5R	8/29/2022	09:32:00	29.02	42.77	--
GWA-2	8/29/2022	09:39:00	36.23	52.13	--
GWC-6R	8/29/2022	09:43:00	34.68	51.87	--
GWC-1R	8/29/2022	09:48:00	22.98	36.41	--
GWC-4R	8/29/2022	09:53:00	16.25	30.20	--
GWC-2R	8/29/2022	09:57:00	28.53	44.00	--

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/30/2022 3:19:57 PM -04:00

Project Number	30143608	**Well ID**	GWC-1R			**Date**	08/30/2022
Project Location	Gypsum Landfill		**Weather(°F)**	Clear 85			
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)	22.92	**Total Depth (ft-bmp)**	36.41	**Water Column(ft)**	13.49	**Gallons in Well**	2.19
MP Elevation	773.27	**Pump Intake (ft-bmp)**	31	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:40	**Well Volumes Purged**	0.18	**Sample ID**	GWC-1R	**Sampled by**	David Prouty
Purge Start	12:23	**Gallons Purged**	0.40	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:22						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:23:00	00:00	100	22.92	5.14	1506.43	0.56	6.86	23.5	152.60
12:28:00	05:00	100	23.45	5.01	1512.45	1.64	6.71	23.1	171.79
12:32:00	09:11	100	23.46	5.02	1503.04	3.26	6.62	23.1	175.24
12:33:00	10:01	100	23.46	5.02	1504.20	2.46	6.61	23.1	178.49
12:38:00	15:01	100	23.46	5.07	1512.76	3.32	6.55	23.3	180.25

Constituent Sampled	Container	Number	Preservative
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
Anions	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/30/2022 7:53:57 PM -04:00

Project Number	30052922	**Well ID**	GWC-3R			**Date**	08/30/2022
Project Location	Gypsum Landfill		**Weather(°F)**	88.2 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)**	28.05	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	28.03	**Total Depth (ft-bmp)**	38.35	**Water Column(ft)**	10.32	**Gallons in Well**	1.68
MP Elevation	775.25	**Pump Intake (ft-bmp)**	33	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:35	**Well Volumes Purged**	1.32	**Sample ID**	GWC-3R	**Sampled by**	Jake Swanson
Purge Start	14:32	**Gallons Purged**	2.22	**Replicate/ Code No.**	G-FB-1 and G-EB-1	**Color**	Clear
Purge End	15:28						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:32:00	00:00	150	28.03	5.94	217.75	3.89	7.17	34.6	177.44
14:37:00	05:00	150	28.33	4.73	169.95	3.33	7.53	24.9	217.79
14:42:00	10:00	150	28.35	4.85	153.73	5.34	7.67	23.4	210.00
14:47:00	15:00	150	28.36	4.90	136.51	5.11	7.79	23.2	212.33
14:52:00	20:00	150	28.37	4.93	149.93	4.79	7.76	23.2	209.93
14:57:00	25:00	150	28.4	4.97	133.52	3.57	7.72	23.2	214.12
15:02:00	30:00	150	28.4	4.97	164.22	2.71	7.69	23.2	217.23
15:03:00	30:59	150	28.4	4.97	137.51	2.71	7.69	23.3	218.22
15:08:00	35:59	150	28.41	4.95	141.58	2.73	7.70	23.2	223.23
15:13:00	40:59	150	28.43	4.91	164.70	2.68	7.71	23.2	226.64
15:18:00	45:59	150	28.43	4.88	137.08	2.95	7.73	23.1	231.47
15:23:00	50:59	150	28.43	4.86	134.40	2.42	7.77	23.0	235.48
15:28:00	55:59	150	28.43	4.85	130.56	2.66	7.79	23.0	237.45

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Chloride,F, SO4	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Well Locked at Arrival: _____

Groundwater Sampling Form

Updated : 8/30/2022 7:53:58 PM -04:00

Project Number	30052922	**Well ID**	GWC-5R			**Date**	08/30/2022
Project Location	Gypsum Landfill		**Weather(°F)**	72.0 degrees F and Fog. The wind is blowing E/SE at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	32.47	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	29.02	**Total Depth (ft-bmp)**	42.77	**Water Column(ft)**	13.75	**Gallons in Well**	2.23
MP Elevation	782.45	**Pump Intake (ft-bmp)**	37	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:40	**Well Volumes Purged**	1.10	**Sample ID**	GWC-5R	**Sampled by**	Jake Swanson
Purge Start	11:02	**Gallons Purged**	2.46	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:34						

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)
11:02:00	00:00	100	29.02	5.46	1699.73	0.02	8.43	24.9	209.63
11:07:00	05:00	100	29.6	4.77	1834.77	10.21	8.04	21.7	229.32
11:12:00	10:00	100	29.65	4.72	1854.58	9.87	8.06	21.4	237.34
11:17:00	15:00	100	29.71	4.72	1862.81	9.14	8.08	21.4	239.93
11:22:00	20:00	100	29.74	4.74	1854.92	8.88	8.07	21.7	240.09
11:27:00	25:00	100	29.79	4.76	1838.07	9.35	8.05	21.5	240.64
11:30:00	27:58	100	29.79	4.76	1838.38	9.35	8.08	21.3	241.13
11:35:00	32:58	100	29.82	4.77	1824.87	9.12	8.08	21.2	239.88
11:40:00	37:58	100	29.83	4.77	1815.17	8.51	8.09	21.6	234.85
11:45:00	42:58	100	29.83	4.79	1797.53	8.73	8.06	22.3	228.33
11:50:00	47:58	100	29.83	4.81	1775.25	8.49	8.00	22.4	231.40
11:55:00	52:58	100	29.87	4.82	1764.54	7.85	7.99	22.7	229.70
12:00:00	57:58	100	29.87	4.83	1757.87	9.27	7.97	22.8	232.00
12:05:00	02:58	100	29.88	4.83	1747.05	7.65	8.02	22.7	231.95
12:10:00	07:58	100	29.88	4.85	1736.66	6.32	7.95	22.9	233.76
12:15:00	12:58	100	29.88	4.85	1728.92	5.89	7.94	23.0	234.41
12:20:00	17:58	100	29.83	4.86	1720.38	5.68	7.90	23.2	234.84
12:25:00	22:58	100	29.86	4.86	1709.21	3.10	7.89	23.3	235.52
12:30:00	27:58	100	29.83	4.86	1700.45	4.76	7.89	23.2	236.28
12:35:00	32:58	100	29.83	4.86	1692.23	4.71	7.86	23.3	236.64

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Chloride,F, SO4	250 mL Plastic	1	None

Groundwater Sampling Form

TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

Updated : 8/30/2022 8:05:34 PM -04:00

Project Number	30143608	**Well ID**	GWC-4R			**Date**	08/30/2022
Project Location	Gypsum Landfill		**Weather(°F)**	Partly cloudy 88			
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)	16.16	**Total Depth (ft-bmp)**	30.2	**Water Column(ft)**	14.04	**Gallons in Well**	2.28
MP Elevation	757.48	**Pump Intake (ft-bmp)**	25	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:40	**Well Volumes Purged**	0.23	**Sample ID**	GWC-4R	**Sampled by**	David Prouty
Purge Start	15:10	**Gallons Purged**	0.53	**Replicate/ Code No.**	GLF-DUP-1	**Color**	Clear
Purge End	18:00						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:10:00	00:00	100	16.28	5.52	1095.99	3.30	0.19	23.4	137.93
15:15:00	05:00	100	16.41	5.49	1065.85	2.91	0.19	23.7	137.68
15:20:00	10:00	100	16.44	5.49	1024.91	1.31	0.25	24.1	138.40
15:25:00	15:00	100	16.44	5.49	1000.61	1.15	0.33	24.5	136.44
15:30:00	20:00	100	16.45	5.52	1001.99	1.89	0.43	24.3	133.11

Constituent Sampled	Container	Number	Preservative
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None
Anions	250 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form

Updated : 8/30/2022 8:05:35 PM -04:00

Project Number	30143608	**Well ID**	GWC-6R			**Date**	08/30/2022
Project Location	Gypsum Landfill		**Weather(°F)**	Cloudy 70			
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)	34.68	**Total Depth (ft-bmp)**	51.87	**Water Column(ft)**	17.19	**Gallons in Well**	2.79
MP Elevation	788.98	**Pump Intake (ft-bmp)**	46	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:10	**Well Volumes Purged**	0.30	**Sample ID**	GWC-6R	**Sampled by**	David Prouty
Purge Start	10:41	**Gallons Purged**	0.83	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:48						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:41:00	00:00	125	35.04	6.10	655.72	1.04	7.50	20.4	120.17
10:46:00	05:00	125	35.06	5.76	450.34	0.02	5.04	19.5	131.99
10:51:00	10:00	125	35.07	5.73	440.65	0.02	4.95	19.2	135.25
10:56:00	15:00	125	35.07	5.75	441.56	0.04	4.80	19.4	138.86
11:01:00	20:00	125	35.08	5.80	446.24	0.03	4.73	19.3	141.73
11:06:00	25:00	125	35.08	5.82	450.77	0.07	4.70	19.2	142.97

Constituent Sampled	Container	Number	Preservative
TDS	500 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Anions	250 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/31/2022 11:55:50 AM -04:00

Project Number	30143608	**Well ID**	GWC-2R			**Date**	08/31/2022
Project Location	Gypsum Landfill		**Weather(°F)**	71.4 degrees F and Cloudy. The wind is blowing N/NE at 3.4 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)	28.55	**Total Depth (ft-bmp)**	44	**Water Column(ft)**	15.45	**Gallons in Well**	2.51
MP Elevation	769.76	**Pump Intake (ft-bmp)**	39	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:25	**Well Volumes Purged**	0.21	**Sample ID**	GWC-2R	**Sampled by**	David Prouty
Purge Start	08:57	**Gallons Purged**	0.53	**Replicate/ Code No.**		**Color**	Clear
Purge End	09:58						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
08:57:00	00:00	100	28.7	5.29	631.19	1.16	5.12	20.3	151.25
09:02:00	05:00	100	28.7	5.24	637.22	0.95	5.26	20.2	145.48
09:07:00	10:00	100	28.7	5.22	646.17	1.06	5.28	20.2	140.59
09:12:00	15:00	100	28.7	5.24	638.93	0.53	5.19	20.1	139.18
09:17:00	20:00	100	28.7	5.23	643.39	1.70	5.22	20.1	140.13

Constituent Sampled	Container	Number	Preservative
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
Anions	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: NA

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: NA

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-3R
Person Gauging:	Jake Swanson
Date:	8/29/2022
Time:	09:24:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Cut vegetation				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWA-2
Person Gauging:	Jake Swanson
Date:	8/29/2022
Time:	09:39:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Cut vegetation				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-5R
Person Gauging:	Jake Swanson
Date:	8/29/2022
Time:	09:32:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Vegetation needs to be cut				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-6R
Person Gauging:	Jake Swanson
Date:	8/29/2022
Time:	09:43:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Cut vegetation				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-2R
Person Gauging:	Jake Swanson
Date:	8/29/2022
Time:	09:57:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Cut vegetation				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-4R
Person Gauging:	Jake Swanson
Date:	8/29/2022
Time:	09:53:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Cut vegetation				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-1R
Person Gauging:	Jake Swanson
Date:	8/29/2022
Time:	09:48:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Cut vegetation				
8	Date by when corrective actions are needed:				

February 2023

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	Gypsum Landfill
Date:	2/6/2023
Sampler:	Jake Swanson
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
GWC-3R	2/6/2023	08:59:00	28.53	38.35	--
GWC-5R	2/6/2023	09:10:00	29.44	42.77	--
GWA-2	2/6/2023	09:16:00	37.46	52.13	--
GWC-6R	2/6/2023	09:21:00	36.00	51.87	--
GWC-1R	2/6/2023	09:38:00	22.96	36.41	--
GWC-4R	2/6/2023	09:41:00	15.91	30.20	--
GWC-2R	2/6/2023	09:44:00	26.94	44.00	--

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/22/2023 9:53:29 AM -05:00

Project Number	30143608	**Well ID**	GWC-3R			**Date**	02/08/2023
Project Location	Gypsum Landfill		**Weather(°F)**	65.7 degrees F and Cloudy. The wind is blowing S/SW at 5.8 mph.			
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)	28.42	**Total Depth (ft-bmp)**	38.35	**Water Column(ft)**	9.93	**Gallons in Well**	1.61
MP Elevation	775.25	**Pump Intake (ft-bmp)**	33	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:30	**Well Volumes Purged**	1.39	**Sample ID**	YAT-GWC-3R	**Sampled by**	Mark Chest
Purge Start	10:38	**Gallons Purged**	2.25	**Replicate/ Code No.**	YAT-GLF-FB-1@1135	**Color**	Clear
Purge End	11:28						

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)
10:38:00	00:00	200	28.42	5.62	171.83	1.83	7.83	17.3	212.95
10:43:00	05:00	200	28.92	4.76	153.79	1.84	7.96	18.2	229.91
10:48:00	10:00	200	29.18	4.78	149.12	3.65	7.95	18.1	229.18
10:53:00	15:00	200	29.23	4.86	153.86	5.56	8.00	18.2	223.67
10:58:00	20:00	200	29.23	4.97	158.10	7.08	8.01	18.2	218.04
11:03:00	25:00	200	29.19	5.06	146.29	6.20	8.04	18.2	212.24
11:08:00	30:00	200	29.19	5.12	145.02	4.93	8.05	18.3	208.82
11:13:00	35:00	100	28.94	5.17	147.33	4.25	8.02	18.7	204.49
11:18:00	40:00	100	28.94	5.21	124.09	3.08	8.09	18.5	202.69
11:23:00	45:00	100	28.94	5.22	121.60	4.25	8.09	18.6	202.93
11:28:00	50:00	100	28.89	5.21	122.92	2.90	8.10	18.5	203.25

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Cations ,Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Alkalinity	250 mL Plastic	1	None
Cl, F, SO4	500 mL Plastic	1	None

Comments: Good

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Groundwater Sampling Form

Updated : 2/22/2023 9:54:12 AM -05:00

Project Number	30143608	**Well ID**	GWC-2R			**Date**	02/08/2023
Project Location	Gypsum Landfill		**Weather(°F)**	68.0 degrees F and Mostly Cloudy. The wind is blowing S at 5.8 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)	28.85	**Total Depth (ft-bmp)**	44	**Water Column(ft)**	15.15	**Gallons in Well**	2.46
MP Elevation	769.76	**Pump Intake (ft-bmp)**	39	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:55	**Well Volumes Purged**	0.43	**Sample ID**	YAT-GWC-2R	**Sampled by**	Mark Chest
Purge Start	14:37	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:57						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:37:00	00:00	200	28.85	5.85	682.55	0.83	5.99	22.8	213.41
14:42:00	05:00	200	29.1	4.98	633.17	0.76	5.34	18.9	228.80
14:47:00	10:00	200	29.1	4.91	634.14	0.84	5.30	18.8	229.99
14:52:00	15:00	200	29.1	4.93	634.63	0.90	5.23	18.7	226.07
14:57:00	20:00	200	29.1	4.96	634.51	0.69	5.21	18.8	223.79

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Cations ,Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Alkalinity	250 mL Plastic	1	None
Cl, F, SO4	500 mL Plastic	1	None

Comments: Good

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/22/2023 9:54:25 AM -05:00

Project Number	30143608	**Well ID**	GWA-2			**Date**	02/07/2023
Project Location	Gypsum Landfill		**Weather(°F)**	56 °F, Cold, SW winds at 5 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)	37.49	**Total Depth (ft-bmp)**	52.13	**Water Column(ft)**	14.64	**Gallons in Well**	2.38
MP Elevation	805.62	**Pump Intake (ft-bmp)**	47	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:48	**Well Volumes Purged**	0.78	**Sample ID**	YAT-GWA-2	**Sampled by**	Mark Chest
Purge Start	11:08	**Gallons Purged**	1.85	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:43						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:08:00	00:00		37.49	6.58	264.36		7.37	16.6	201.73
11:09:00	00:26	200	37.49	6.16	285.68	0.56	5.96	17.1	167.95
11:14:00	05:26	200	38.59	6.02	295.43	0.58	0.79	17.0	178.41
11:19:00	10:26	200	39.4	5.98	278.20	1.00	0.77	17.0	191.22
11:24:00	15:26	200	39.75	5.97	269.44	0.25	0.60	17.1	188.69
11:29:00	20:26	200	39.99	5.95	265.58	0.99	0.52	17.2	182.50
11:34:00	25:26	200	40.13	5.94	262.73	1.17	0.46	17.2	176.16
11:39:00	30:26	200	40.2	5.92	261.81	0.70	0.43	17.3	169.56
11:44:00	35:26	200	40.33	5.94	260.35	1.09	0.42	17.3	162.08

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Cations ,Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Cl, F, and SO4	250 mL Plastic	1	None
Alkalinity	250 mL Plastic	1	None

Comments: Good

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well:

Well Locked at Departure:

Well Completion: NA

Key Number To Well: NA

Groundwater Sampling Form

Updated : 2/22/2023 9:54:41 AM -05:00

Project Number	30143608	**Well ID**	GWC-6R			**Date**	02/07/2023
Project Location	Gypsum Landfill		**Weather(°F)**	61.7 degrees F and Clear. The wind is blowing S/SE at 6.9 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)	35.95	**Total Depth (ft-bmp)**	51.87	**Water Column(ft)**	15.92	**Gallons in Well**	2.59
MP Elevation	788.98	**Pump Intake (ft-bmp)**	46	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:30	**Well Volumes Purged**	0.61	**Sample ID**	YAT-GWC-6R	**Sampled by**	Mark Chest
Purge Start	12:57	**Gallons Purged**	1.59	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:27						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:57:00	00:00	200	35.95	6.65	374.33	3.54	9.37	16.8	173.22
13:02:00	05:00	200	36.78	5.67	302.37	0.90	5.41	17.0	214.38
13:07:00	10:00	200	36.78	5.66	292.20	0.60	5.03	17.0	220.97
13:12:00	15:00	200	36.78	5.73	296.71	0.56	4.88	16.9	219.60
13:17:00	20:00	200	36.78	5.81	300.45	0.53	4.82	16.9	217.97
13:22:00	25:00	200	36.78	5.87	303.78	0.49	4.79	16.9	217.16
13:27:00	30:00	200	36.78	5.91	303.82		4.81	16.9	217.37

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Cations ,Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Alkalinity	250 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None

Comments: Good

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: NA

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: NA

Groundwater Sampling Form

Updated : 2/22/2023 9:54:54 AM -05:00

Project Number	30143608	**Well ID**	GWC-5R			**Date**	02/07/2023
Project Location	Gypsum Landfill		**Weather(°F)**	61.7 degrees F and Clear. The wind is blowing S/SE at 6.9 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	32.47	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	29.3	**Total Depth (ft-bmp)**	42.77	**Water Column(ft)**	13.47	**Gallons in Well**	2.19
MP Elevation	782.45	**Pump Intake (ft-bmp)**	37	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:10	**Well Volumes Purged**	0.48	**Sample ID**	YAT-GWC-5R	**Sampled by**	Mark Chest
Purge Start	15:45	**Gallons Purged**	1.06	**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)
15:45:00	00:00	200	29.3	4.91	1795.65	3.51	8.55	18.4	234.23
15:50:00	05:00	200	30.84	4.54	1819.42	4.75	8.09	18.3	258.97
15:55:00	10:00	200	31.1	4.55	1795.97	3.61	8.01	18.2	256.84
16:00:00	15:00	200	31.13	4.58	1764.26	2.88	7.96	18.1	255.73
16:05:00	20:00	200	31.19	4.62	1734.44	3.65	7.98	18.1	258.44

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Cations ,Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Alkalinity	250 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None

Comments: Good

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

Updated : 2/22/2023 9:55:18 AM -05:00

Project Number	30143608	**Well ID**	GWC-1R			**Date**	02/07/2023
Project Location	Gypsum Landfill		**Weather(°F)**	64.6 degrees F and Clear. The wind is blowing S at 6.9 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)	22.82	**Total Depth (ft-bmp)**	36.41	**Water Column(ft)**	13.59	**Gallons in Well**	2.21
MP Elevation	773.27	**Pump Intake (ft-bmp)**	31	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:35	**Well Volumes Purged**	0.48	**Sample ID**	YAT-GWC-1R	**Sampled by**	Mark Chest
Purge Start	14:11	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:31						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:11:00	00:00	200	22.82	5.19	1168.76	3.70	6.53	20.0	219.75
14:16:00	05:00	200	24.04	5.13	1204.64	2.50	6.94	17.7	254.19
14:21:00	10:00	200	24.04	5.15	1157.00	2.32	6.78	18.1	257.12
14:26:00	15:00	200	24.04	5.16	1174.22	2.45	6.64	18.0	260.41
14:31:00	20:00	200	24.04	5.16	1214.84	3.58	6.66	17.8	264.28

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Cations ,Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Alkalinity	250 mL Plastic	1	None
Cl, F, SO4	500 mL Plastic	1	None

Comments: Good

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

Updated : 2/22/2023 9:55:44 AM -05:00

Project Number	30143608	**Well ID**	GWC-4R			**Date**	02/08/2023
Project Location	Gypsum Landfill		**Weather(°F)**	68.0 degrees F and Mostly Cloudy. The wind is blowing S at 5.8 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)	15.83	**Total Depth (ft-bmp)**	30.2	**Water Column(ft)**	14.37	**Gallons in Well**	2.33
MP Elevation	757.48	**Pump Intake (ft-bmp)**	25	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:23	**Well Volumes Purged**	0.91	**Sample ID**	YAT-GWC-4R	**Sampled by**	Mark Chest
Purge Start	12:39	**Gallons Purged**	2.11	**Replicate/ Code No.**	YAT-GLF-FD-1	**Color**	Clear
Purge End	13:19						

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)
12:39:00	00:00	200	15.83	5.96	870.00	19.40	1.24	18.7	207.92
12:44:00	05:00	200	16.2	5.74	874.51	9.73	0.68	18.5	216.23
12:49:00	10:00	200	16.5	5.72	868.50	4.70	0.54	18.5	214.54
12:54:00	15:00	200	16.5	5.71	840.61	3.68	0.87	18.5	210.24
12:59:00	20:00	200	16.5	5.71	797.17	2.13	1.26	18.6	205.93
13:04:00	25:00	200	16.5	5.72	775.14	2.36	1.56	18.5	203.28
13:09:00	30:00	200	16.5	5.66	744.50	1.59	1.94	18.5	203.98
13:14:00	35:00	200	16.5	5.68	752.48	1.48	1.95	18.5	206.43
13:19:00	40:00	200	16.5	5.64	727.81	1.40	2.11	18.7	208.22

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Cations ,Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Alkalinity	250 mL Plastic	1	None
Cl, F, SO4	500 mL Plastic	1	None

Comments: Good

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-3R
Person Gauging:	Jake Swanson
Date:	2/6/2023
Time:	08:59:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Cut the grass				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-5R
Person Gauging:	Jake Swanson
Date:	2/6/2023
Time:	09:10:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Cut grass				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-6R
Person Gauging:	Jake Swanson
Date:	2/6/2023
Time:	09:21:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWA-2
Person Gauging:	Jake Swanson
Date:	2/6/2023
Time:	09:16:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☐	☑	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Well ID is faded and bollards needs painting				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-2R
Person Gauging:	Jake Swanson
Date:	2/6/2023
Time:	09:44:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-4R
Person Gauging:	Jake Swanson
Date:	2/6/2023
Time:	09:41:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWC-1R
Person Gauging:	Jake Swanson
Date:	2/6/2023
Time:	09:38:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☐	☐	☑
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Upgradient Wells

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/22/2023 9:59:13 AM -05:00

Project Number	30052922	**Well ID**	YGWA-1I			**Date**	02/07/2023
Project Location	AP-2		**Weather(°F)**	Clear 51 F			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	43.3	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	39.06	**Total Depth (ft-bmp)**	53.6	**Water Column(ft)**	14.54	**Gallons in Well**	2.36
MP Elevation	836.6	**Pump Intake (ft-bmp)**	49	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:45	**Well Volumes Purged**	0.64	**Sample ID**	YAT-YGWA-1I	**Sampled by**	Jake Swanson
Purge Start	11:03	**Gallons Purged**	1.52	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:38						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:03:00	00:00	200	39.06	6.71	74.95	0.87	9.78	15.3	187.74
11:08:00	05:00	200	39.98	6.17	101.76	0.77	4.83	16.0	-37.34
11:13:00	10:00	150	40.4	6.57	98.30	1.03	1.59	15.9	-102.75
11:18:00	15:00	150	40.53	6.55	89.26	1.13	1.36	16.0	-86.28
11:23:00	20:00	150	40.72	6.51	82.44	0.95	1.43	16.2	-71.08
11:28:00	25:00	150	40.83	6.50	77.12	1.02	1.63	16.2	-54.52
11:33:00	30:00	150	40.9	6.50	76.30	0.88	1.67	16.5	-43.97
11:38:00	35:00	150	40.96	6.53	75.28	0.71	1.70	16.8	-36.16

Constituent Sampled	Container	Number	Preservative
Chloride	250 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Alkalinity	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/22/2023 9:59:36 AM -05:00

Project Number	30052922	**Well ID**	YGWA-1D			**Date**	02/07/2023
Project Location	AP-2		**Weather(°F)**	61.7 degrees F and Clear. The wind is blowing S/SE at 6.9 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	78.05	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	49.88	**Total Depth (ft-bmp)**	128.85	**Water Column(ft)**	78.97	**Gallons in Well**	12.83
MP Elevation	837.25	**Pump Intake (ft-bmp)**	108	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:40	**Well Volumes Purged**	0.16	**Sample ID**	YAT-YGWA-1D	**Sampled by**	Jake Swanson
Purge Start	12:50	**Gallons Purged**	2.11	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:30						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:50:00	00:00	200	49.88	6.04	95.34	0.93	2.87	27.5	31.25
12:55:00	05:00	200	49.93	6.92	166.35	2.01	7.56	17.5	21.03
13:00:00	10:00	200	49.96	7.03	176.90	1.84	1.49	17.0	-159.72
13:05:00	15:00	200	49.98	7.41	184.42	1.02	0.53	16.7	-196.20
13:10:00	20:00	200	49.98	7.62	183.98	0.96	0.31	16.6	-204.58
13:15:00	25:00	200	49.98	7.73	182.14	0.70	0.23	16.6	-209.10
13:20:00	30:00	200	50	7.79	180.31	0.67	0.21	16.5	-214.08
13:25:00	35:00	200	50.03	7.83	177.23	0.82	0.24	16.5	-212.30
13:30:00	40:00	200	50.04	7.86	174.24	0.98	0.30	16.4	-202.69

Constituent Sampled	Container	Number	Preservative
Chloride	250 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Alkalinity	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/22/2023 9:59:54 AM -05:00

Project Number	30052922	**Well ID**	YGWA-2I			**Date**	02/07/2023
Project Location	AP-2		**Weather(°F)**	61.7 degrees F and Clear. The wind is blowing S/SE at 6.9 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	53.45	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	46.07	**Total Depth (ft-bmp)**	63.75	**Water Column(ft)**	17.68	**Gallons in Well**	2.87
MP Elevation	866.25	**Pump Intake (ft-bmp)**	60	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:40	**Well Volumes Purged**	0.53	**Sample ID**	YAT-YGWA-2I	**Sampled by**	Jake Swanson
Purge Start	14:46	**Gallons Purged**	1.52	**Replicate/ Code No.**		**Color**	Clear
Purge End	15:31						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:46:00	00:00	200	46.07	6.81	208.20	2.92	8.22	17.4	143.75
14:51:00	05:00	200	47.9	6.77	233.52	1.65	1.49	17.3	-103.02
14:56:00	10:00	200	48.64	6.95	235.72	1.76	0.81	17.3	-115.31
15:01:00	15:00	150	49.43	6.98	233.36	1.08	0.64	17.1	-107.13
15:06:00	20:00	100	49.8	6.97	232.52	0.83	0.62	17.5	-98.21
15:11:00	25:00	100	50.01	6.96	229.02	0.95	0.79	17.5	-91.66
15:16:00	30:00	100	50.45	6.96	225.23	0.80	0.99	17.5	-84.30
15:21:00	35:00	50	50.91	6.96	221.96	0.76	1.21	17.8	-77.35
15:26:00	40:00	50	51.04	6.94	220.61	0.73	1.29	18.0	-73.97
15:31:00	45:00	50	51.2	6.94	219.50	0.70	1.33	18.0	-72.20

Constituent Sampled	Container	Number	Preservative
Chloride	250 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Alkalinity	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: Bump check before purge begins

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well:

Well Locked at Departure:

Well Completion: NA

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/22/2023 10:01:40 AM -05:00

Project Number	30052922	**Well ID**	YGWA-14S			**Date**	02/08/2023
Project Location	AP-2		**Weather(°F)**	66 cloudy			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	24.66	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	19.53	**Total Depth (ft-bmp)**	34.96	**Water Column(ft)**	15.43	**Gallons in Well**	2.51
MP Elevation	748.76	**Pump Intake (ft-bmp)**	30	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:50	**Well Volumes Purged**	0.53	**Sample ID**	YAT-YGWA-14S	**Sampled by**	Jake Swanson
Purge Start	13:21	**Gallons Purged**	1.32	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:46						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:21:00	00:00	200	19.53	6.86	67.00	1.17	9.13	18.0	131.31
13:26:00	05:00	200	19.91	5.30	67.90	1.45	5.73	18.5	163.63
13:31:00	10:00	200	19.91	5.31	67.18	0.73	5.61	18.6	160.08
13:36:00	15:00	200	19.92	5.38	66.83	0.66	5.50	18.6	157.66
13:41:00	20:00	200	19.92	5.39	67.68	0.49	5.36	18.6	158.21
13:46:00	25:00	200	19.92	5.39	67.84	0.62	5.22	18.7	159.49

Constituent Sampled	Container	Number	Preservative
Chloride	250 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Alkalinity	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/22/2023 10:02:05 AM -05:00

Project Number	30052922	**Well ID**	YGWA-30I			**Date**	02/08/2023
Project Location	AP-2		**Weather(°F)**	72 partly cloudy			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	49.18	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	44.62	**Total Depth (ft-bmp)**	59.48	**Water Column(ft)**	14.86	**Gallons in Well**	2.41
MP Elevation	762.58	**Pump Intake (ft-bmp)**	54.5	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:10	**Well Volumes Purged**	0.77	**Sample ID**	YAT-YGWA-30I	**Sampled by**	Jake Swanson
Purge Start	14:27	**Gallons Purged**	1.85	**Replicate/ Code No.**		**Color**	Clear
Purge End	15:02						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:27:00	00:00	200	44.62	6.51	38.42	0.74	9.21	19.7	93.36
14:32:00	05:00	200	44.64	5.84	40.67	0.56	7.38	18.7	131.42
14:37:00	10:00	200	44.64	5.98	40.69	0.51	7.09	18.1	129.26
14:42:00	15:00	200	44.64	6.19	40.52	0.53	7.07	17.8	122.98
14:47:00	20:00	200	44.65	6.30	40.58	0.48	7.03	17.7	119.06
14:52:00	25:00	200	44.65	6.37	40.45	0.53	7.02	17.8	116.80
14:57:00	30:00	200	44.65	6.42	40.25	0.55	7.00	17.8	115.88
15:02:00	35:00	200	44.66	6.43	40.31	0.58	7.01	17.8	115.69

Constituent Sampled	Container	Number	Preservative
Chloride	250 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Alkalinity	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/22/2023 10:02:53 AM -05:00

Project Number	30052922	**Well ID**	YGWA-3D			**Date**	02/08/2023
Project Location	AP-2		**Weather(°F)**	52 cloudy			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	83.88	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	31.82	**Total Depth (ft-bmp)**	134.18	**Water Column(ft)**	102.36	**Gallons in Well**	16.63
MP Elevation	796.78	**Pump Intake (ft-bmp)**	113	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:40	**Well Volumes Purged**	0.11	**Sample ID**	YAT-YGWA-3D	**Sampled by**	Jake Swanson
Purge Start	10:59	**Gallons Purged**	1.85	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:34						

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)
10:59:00	00:00	200	31.82	7.71	265.26	0.91	9.45	17.1	-6.04
11:04:00	05:00	200	31.89	7.04	266.72	0.72	1.88	17.3	-141.70
11:09:00	10:00	200	31.9	7.28	266.07	0.69	0.47	17.4	-184.24
11:14:00	15:00	200	31.9	7.56	267.05	0.61	0.24	17.2	-194.59
11:19:00	20:00	200	31.9	7.74	267.28	0.81	0.18	17.2	-193.00
11:24:00	25:00	200	31.9	7.82	267.46	0.77	0.14	17.2	-187.03
11:29:00	30:00	200	31.9	7.86	267.67	0.63	0.12	17.1	-185.02
11:34:00	35:00	200	31.9	7.88	267.70	0.51	0.13	17.2	-184.32

Constituent Sampled	Container	Number	Preservative
Chloride	250 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Alkalinity	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Well Completion: NA Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/22/2023 10:03:12 AM -05:00

Project Number	30052922	**Well ID**	YGWA-3I			**Date**	02/08/2023
Project Location	AP-2		**Weather(°F)**	52 cloudy			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	48.85	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	52.28	**Total Depth (ft-bmp)**	59.05	**Water Column(ft)**	6.77	**Gallons in Well**	1.1
MP Elevation	796.55	**Pump Intake (ft-bmp)**	54	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:00	**Well Volumes Purged**	1.20	**Sample ID**	YAT-YGWA-3I	**Sampled by**	Jake Swanson
Purge Start	09:06	**Gallons Purged**	1.32	**Replicate/ Code No.**		**Color**	Clear
Purge End	09:56						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:06:00	00:00	100	52.28	7.59	254.58	1.21	9.56	14.3	163.95
09:11:00	05:00	100	52.44	7.54	250.79	0.80	8.94	15.2	159.85
09:16:00	10:00	100	52.47	7.62	298.21	0.71	5.75	15.2	150.01
09:21:00	15:00	100	52.49	7.66	310.51	0.66	4.59	15.3	129.40
09:26:00	20:00	100	52.5	7.68	310.24	0.70	3.63	15.3	30.64
09:31:00	25:00	100	52.5	7.69	303.53	0.75	2.85	15.3	-30.95
09:36:00	30:00	100	52.5	7.70	298.00	0.71	2.10	15.3	-62.01
09:41:00	35:00	100	52.5	7.71	291.26	0.50	1.63	15.4	-81.60
09:46:00	40:00	100	52.5	7.71	284.01	0.53	1.35	15.4	-94.81
09:51:00	45:00	100	52.5	7.72	278.59	0.72	1.27	15.4	-102.18
09:56:00	50:00	100	52.5	7.73	274.63	0.80	1.22	15.4	-107.55

Constituent Sampled	Container	Number	Preservative
Chloride	250 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Alkalinity	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Groundwater Sampling Form

Updated : 2/9/2023 11:24:11 AM -05:00

Project Number	30053438	**Well ID**	YGWA-39			**Date**	02/07/2023
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	68.2 degrees F and Clear. The wind is blowing S/SW at 5.8 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	58.09	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	17.61	**Total Depth (ft-bmp)**	68.59	**Water Column(ft)**	50.98	**Gallons in Well**	8.28
MP Elevation	818.19	**Pump Intake (ft-bmp)**	63	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:15	**Well Volumes Purged**	0.15	**Sample ID**	YAT-YGWA-39	**Sampled by**	Jessica Ware
Purge Start	15:51	**Gallons Purged**	1.27	**Replicate/ Code No.**		**Color**	Clear
Purge End	16:12						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:51:00	00:00	200	17.9	7.65	379.53	2.10	8.19	20.7	183.56
15:56:00	05:00	200	17.98	5.63	365.82	1.03	0.25	18.6	71.36
16:01:00	10:00	200	18.02	5.51	364.28	0.88	0.17	18.4	89.50
16:06:00	15:00	200	18.08	5.48	362.22	0.65	0.21	18.2	80.24
16:11:00	20:00	200	18.04	5.49	358.41	0.73	0.19	18.2	82.59

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Cations,Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Alkalinity	250 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None

Comments: Missing labels, some handwritten

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/22/2023 10:12:44 AM -05:00

Project Number	30143623	**Well ID**	YGWA-21I			**Date**	02/07/2023
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	Sunny, 60's			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	69.6	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	30.09	**Total Depth (ft-bmp)**	79.9	**Water Column(ft)**	49.81	**Gallons in Well**	8.09
MP Elevation	783.7	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:48	**Well Volumes Purged**	0.10	**Sample ID**	YAT-YGWA-21I	**Sampled by**	Kim Lapszynski
Purge Start	12:16	**Gallons Purged**	0.78	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:47						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:16:00	00:00		30.09	6.99	128.39		1.04	19.8	-5.50
12:21:00	05:00	100	31.96	6.95	146.92	1.95	0.43	17.8	-57.33
12:25:00	09:28	100	32.48	6.87	151.52	1.22	0.23	17.7	-88.28
12:30:00	14:28	100	32.71	6.88	152.10	0.93	0.28	18.8	-104.42
12:35:00	19:28	100	32.96	6.89	151.66	1.02	0.28	18.6	-104.05
12:40:00	24:28	100	33.08	6.86	150.38	0.75	0.34	18.7	-99.55
12:45:00	29:28	100	33.27	6.82	147.85	0.57	0.36	18.6	-91.23

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320, Alkalinity, TDS, Cations (Na, K, Mg), App III/IV Metals, Cl, F, SO4	1L Plastic, 500 mL Plastic, 250 mL Plastic	6	None, HNO3

Comments: Delays due to low-flow sampling templates not presented in the In-Situ app.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well:

Well Locked at Departure:

Well Completion: NA

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/22/2023 10:13:08 AM -05:00

Project Number	30143623	**Well ID**	YGWA-20S			**Date**	02/07/2023
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	64.6 degrees F and Clear. The wind is blowing S at 6.9 mph			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	19.22	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	11.03	**Total Depth (ft-bmp)**	29.52	**Water Column(ft)**	18.49	**Gallons in Well**	3
MP Elevation	767.12	**Pump Intake (ft-bmp)**	24.5	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:50	**Well Volumes Purged**	0.40	**Sample ID**	YAT-YGWA-20S	**Sampled by**	Kim Lapszynski
Purge Start	14:02	**Gallons Purged**	1.19	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:48						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:02:00	00:00	100	11.03	6.54	46.47		7.88	18.4	132.06
14:07:00	05:00	100	11.62	6.09	45.02	12.40	7.77	17.0	164.68
14:12:00	10:00	100	11.54	5.95	44.99	12.10	7.73	17.0	175.06
14:17:00	15:00	100	11.52	5.88	44.87	9.60	7.67	17.0	180.48
14:22:00	20:00	100	11.55	5.82	44.82	9.14	7.69	16.8	185.67
14:27:00	25:00	100	11.56	5.76	44.72	6.80	7.70	16.6	189.85
14:32:00	30:00	100	11.56	5.71	44.71	5.85	7.72	16.5	193.66
14:37:00	35:00	100	11.56	5.67	44.68	4.84	7.70	16.5	196.27
14:42:00	40:00	100	11.56	5.64	44.64	4.99	7.69	16.6	198.45
14:47:00	45:00	100	11.57	5.63	44.62	4.77	7.69	16.7	200.41

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320, TDS, Alkalinity, App III/IV Metals, Cations(Na, K, Mg), Cl, F, SO4	1L Plastic, 500mL Plastic, 250mL Plastic	6	None, HNO3

Comments: Completed mid-day calibration.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

Updated : 2/22/2023 10:21:42 AM -05:00

Project Number	30143623	**Well ID**	YGWA-40			**Date**	02/08/2023
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	65.7 degrees F and Cloudy. The wind is blowing S/SW at 5.8 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	37.73	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	22.95	**Total Depth (ft-bmp)**	48.23	**Water Column(ft)**	25.28	**Gallons in Well**	4.11
MP Elevation	815.73	**Pump Intake (ft-bmp)**	42	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:02	**Well Volumes Purged**	0.13	**Sample ID**	YAT-YGWA-40	**Sampled by**	Kim Lapszynski
Purge Start	11:40	**Gallons Purged**	0.53	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:00						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:40:00	00:00	100	22.95	6.11	135.41		4.07	17.9	156.47
11:45:00	05:00	100	23.3	5.83	120.58	0.53	0.45	17.6	175.87
11:50:00	10:00	100	23.36	5.74	117.07	0.56	0.18	17.5	184.77
11:55:00	15:00	100	23.38	5.73	116.19	0.50	0.14	17.4	190.95
12:00:00	20:00	100	23.39	5.71	115.91	0.49	0.11	17.5	196.44

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320, TDS, Alkalinity, App III/IV Metals, Cations (Na, K, Mg), Cl, F, SO4	1L Plastic, 500mL Plastic, 250mL Plastic	6	None, HNO3

Comments: Can not access well with field truck. Parked and walked equipment due to muddy/deep ruts at potential access point.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well:

Well Locked at Departure:

Well Completion: NA

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/10/2023 10:07:35 AM -05:00

Project Number	30053438	**Well ID**	YGWA-17S			**Date**	02/07/2023
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	48.4 degrees F and Clear. The wind is blowing SE at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	29.65	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	11.65	**Total Depth (ft-bmp)**	39.85	**Water Column(ft)**	28.2	**Gallons in Well**	4.58
MP Elevation	783.05	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:16	**Well Volumes Purged**	0.28	**Sample ID**	YAT-YGWA-17S	**Sampled by**	Jessica Ware
Purge Start	10:32	**Gallons Purged**	1.29	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:14						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:32:00	00:00	100	11.65	5.65	86.52		5.27	15.9	155.52
10:37:00	05:00	125	11.78	5.41	82.66	1.48	3.91	15.0	153.86
10:42:00	10:00	125	11.82	5.43	78.91	1.90	2.46	15.7	140.76
10:47:00	15:00	125	11.81	5.45	79.44	1.46	2.16	15.9	134.12
10:52:00	20:00	125	11.85	5.49	79.91	1.83	2.05	15.9	136.11
10:57:00	25:00	125	11.84	5.47	80.03	1.67	1.96	16.0	136.84
11:02:00	30:00	125	11.83	5.46	79.65	1.76	1.77	16.2	137.74
11:07:00	35:00	125	11.82	5.47	79.68	1.77	1.76	16.2	137.55
11:12:00	40:00	125	11.83	5.47	79.75	1.61	1.75	16.2	139.01

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
App III/IV Metals, Cations	250 mL Plastic	1	HNO3
Alk	250 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

Updated : 2/9/2023 11:24:10 AM -05:00

Project Number	30053438	**Well ID**	YGWA-18S			**Date**	02/07/2023
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	61.7 degrees F and Clear. The wind is blowing S/SE at 6.9 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	29.97	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	23.68	**Total Depth (ft-bmp)**	39.97	**Water Column(ft)**	16.29	**Gallons in Well**	2.65
MP Elevation	790.57	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:48	**Well Volumes Purged**	0.50	**Sample ID**	YAT-YGWA-18S	**Sampled by**	Jessica Ware
Purge Start	13:19	**Gallons Purged**	1.32	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:46						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:19:00	00:00	200	23.68	5.10	43.69	3.74	3.86	17.3	145.49
13:24:00	05:00	200	21.82	4.92	43.52	2.39	2.61	17.1	158.84
13:29:00	10:00	200	21.8	5.03	43.25	2.38	2.44	17.1	154.87
13:34:00	15:00	200	21.81	5.06	43.33	1.95	2.41	16.9	153.86
13:39:00	20:00	200	21.84	5.09	43.36	2.02	2.41	16.9	153.40
13:44:00	25:00	200	21.84	5.03	43.24	1.68	2.40	17.0	156.56

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Cations,Metals	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
Alkalinity	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

Updated : 2/22/2023 10:13:26 AM -05:00

Project Number	30143623	**Well ID**	YGWA-5D			**Date**	02/07/2023
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	67.1 degrees F and Clear. The wind is blowing S at 6.9 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	78.83	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	19.43	**Total Depth (ft-bmp)**	129.13	**Water Column(ft)**	109.7	**Gallons in Well**	17.83
MP Elevation	784.53	**Pump Intake (ft-bmp)**	124	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:22	**Well Volumes Purged**	0.07	**Sample ID**	YAT-YGWA-5D	**Sampled by**	Kim Lapszynski
Purge Start	15:59	**Gallons Purged**	1.32	**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)
15:59:00	00:00	250	19.43	7.46	215.27		8.15	16.9	85.46
16:04:00	05:00	250	20.23	6.80	233.23	1.71	0.56	16.7	-122.05
16:09:00	10:00	250	20.26	6.73	226.74	0.74	0.42	16.7	-125.79
16:14:00	15:00	250	20.42	6.66	218.99	0.68	0.36	16.7	-128.33
16:19:00	20:00	250	20.48	6.64	217.27	0.65	0.36	16.7	-135.34

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320, TDS, Alkalinity, App III/IV Metals, Cations(Na, K, Mg), Cl, F, SO4	1L Plastic, 500mL Plastic, 250mL Plastic	6	None, HNO3

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well:

Well Locked at Departure:

Well Completion: NA

Key Number To Well: NA

Groundwater Sampling Form

Updated : 2/9/2023 11:24:09 AM -05:00

Project Number	30053438	**Well ID**	YGWA-18I			**Date**	02/07/2023
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**				
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	69.67	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	23.65	**Total Depth (ft-bmp)**	79.97	**Water Column(ft)**	56.32	**Gallons in Well**	9.15
MP Elevation	790.57	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:31	**Well Volumes Purged**	0.19	**Sample ID**	YAT-YGWA-18I	**Sampled by**	Jessica Ware
Purge Start	12:03	**Gallons Purged**	1.70	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:29						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:03:00	00:00	250	23.64	6.38	91.69		8.15	14.9	131.80
12:08:00	05:00	200	23.88	5.88	92.66	1.25	3.62	16.5	140.78
12:13:00	10:00	200	23.95	6.01	92.41	0.75	3.71	16.5	132.73
12:18:00	15:00	200	23.99	5.96	92.68	1.02	3.75	16.5	134.27
12:23:00	20:00	200	24.02	5.99	92.58	0.84	3.84	16.5	132.13
12:28:00	25:00	200	24.01	6.00	92.04	1.19	3.95	16.6	131.37

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Cations,Metals	250 mL Plastic	1	HNO3
Alk	250 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None
TDS	500 mL Plastic	1	None

Comments: None

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/22/2023 10:33:40 AM -05:00

Project Number	30143623	**Well ID**	YGWA-5I			**Date**	02/09/2023
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	62.6 degrees F and Mostly Cloudy. The wind is blowing S/SW at 8.1 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	48.64	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	19.06	**Total Depth (ft-bmp)**	58.94	**Water Column(ft)**	39.88	**Gallons in Well**	6.48
MP Elevation	784.54	**Pump Intake (ft-bmp)**	53	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:26	**Well Volumes Purged**	0.08	**Sample ID**	YAT-YGWA-5I	**Sampled by**	Kim Lapszynski
Purge Start	11:03	**Gallons Purged**	0.53	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:24						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:03:00	00:00	100	19.06	7.11	70.88		8.71	15.4	122.00
11:08:00	05:00	100	19.22	6.15	67.99	1.03	6.25	16.3	143.52
11:13:00	10:00	100	19.23	5.94	68.99	0.74	6.16	16.5	158.08
11:18:00	15:00	100	19.24	5.91	69.23	0.70	6.15	16.5	164.37
11:23:00	20:00	100	19.24	5.90	69.31	0.78	6.16	16.6	169.40

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320, TDS, Alkalinity, App III/IV Metals, Cations (Na, K, Mg), Cl, F, SO4	1L Plastic, 500mL Plastic, 250mL Plastic	6	None, HNO3

Comments: None.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well:

Well Locked at Departure:

Well Completion: NA

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/22/2023 10:23:26 AM -05:00

Project Number	30143623	**Well ID**	YGWA-4I			**Date**	02/09/2023
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	60.1 degrees F and Cloudy. The wind is blowing S at 10.3 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	38.51	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	23.5	**Total Depth (ft-bmp)**	48.81	**Water Column(ft)**	25.31	**Gallons in Well**	4.11
MP Elevation	784.21	**Pump Intake (ft-bmp)**	45	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:55	**Well Volumes Purged**	0.18	**Sample ID**	YAT-YGWA-4I	**Sampled by**	Kim Lapszynski
Purge Start	09:27	**Gallons Purged**	0.73	**Replicate/ Code No.**		**Color**	Clear
Purge End	09:52						

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)
09:27:00	00:00	150	23.5	7.53	113.72		8.49	14.7	141.05
09:32:00	05:00	100	24.18	6.28	117.89	0.69	3.18	15.7	145.11
09:37:00	10:00	100	24.29	6.23	119.05	1.10	1.91	15.8	147.04
09:42:00	15:00	100	24.37	6.23	119.54	0.62	1.56	15.8	147.02
09:47:00	20:00	100	24.43	6.23	119.62	0.53	1.46	15.8	147.38
09:52:00	25:00	100	24.47	6.23	119.35	0.78	1.43	15.8	147.95

Constituent Sampled	Container	Number	Preservative
RAD 9315/9320, TDS, Alkalinity, Cations (Na, K, Mg), App III/IV Metals, Cl, F, SO4	1L Plastic, 500mL Plastic, 250mL Plastic	6	None, HNO3

Comments: None.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/22/2023 9:54:25 AM -05:00

Project Number	30143608	**Well ID**	GWA-2			**Date**	02/07/2023
Project Location	Gypsum Landfill		**Weather(°F)**	56 °F, Cold, SW winds at 5 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)	37.49	**Total Depth (ft-bmp)**	52.13	**Water Column(ft)**	14.64	**Gallons in Well**	2.38
MP Elevation	805.62	**Pump Intake (ft-bmp)**	47	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:48	**Well Volumes Purged**	0.78	**Sample ID**	YAT-GWA-2	**Sampled by**	Mark Chest
Purge Start	11:08	**Gallons Purged**	1.85	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:43						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:08:00	00:00		37.49	6.58	264.36		7.37	16.6	201.73
11:09:00	00:26	200	37.49	6.16	285.68	0.56	5.96	17.1	167.95
11:14:00	05:26	200	38.59	6.02	295.43	0.58	0.79	17.0	178.41
11:19:00	10:26	200	39.4	5.98	278.20	1.00	0.77	17.0	191.22
11:24:00	15:26	200	39.75	5.97	269.44	0.25	0.60	17.1	188.69
11:29:00	20:26	200	39.99	5.95	265.58	0.99	0.52	17.2	182.50
11:34:00	25:26	200	40.13	5.94	262.73	1.17	0.46	17.2	176.16
11:39:00	30:26	200	40.2	5.92	261.81	0.70	0.43	17.3	169.56
11:44:00	35:26	200	40.33	5.94	260.35	1.09	0.42	17.3	162.08

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Cations ,Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Cl, F, and SO4	250 mL Plastic	1	None
Alkalinity	250 mL Plastic	1	None

Comments: Good

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Well Locked at Arrival:

Condition of Well:

Well Locked at Departure:

Well Completion: NA

Key Number To Well: NA

Groundwater Sampling Form

Updated : 2/22/2023 9:56:23 AM -05:00

Project Number	30143608	**Well ID**	YGWA-47			**Date**	02/08/2023
Project Location	AP-1		**Weather(°F)**	68.0 degrees F and Mostly Cloudy. The wind is blowing S at 5.8 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	49.4	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	35.25	**Total Depth (ft-bmp)**	59.19	**Water Column(ft)**	23.94	**Gallons in Well**	3.89
MP Elevation	758.22	**Pump Intake (ft-bmp)**	54	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	17:02	**Well Volumes Purged**	0.27	**Sample ID**	YAT-YGWA-47	**Sampled by**	Mark Chest
Purge Start	16:23	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	16:45						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
16:23:00	00:00	200	35.25	5.91	191.39	2.14	6.32	18.8	190.41
16:28:00	05:00	200	35.29	5.17	194.56	0.43	3.20	18.4	215.07
16:33:00	10:00	200	35.29	5.13	194.36	0.32	2.88	18.4	217.37
16:38:00	15:00	200	35.29	5.16	194.76	0.46	2.80	18.2	216.94
16:43:00	20:00	200	35.29	5.22	195.55	0.46	2.74	18.3	215.55

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Cations ,Metals	250 mL Plastic	1	HNO3
TDS	500 mL Plastic	1	None
Alkalinity	250 mL Plastic	1	None
Cl, F, SO4	500 mL Plastic	1	None

Comments: Good

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot 1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location:

Condition of Well:

Well Completion: NA

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well: NA

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-30I
Person Gauging:	Jake Swanson
Date:	2/6/2023
Time:	01:38:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-3S
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	10:55:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-3I
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	10:56:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-3D
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	10:57:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-2I
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	11:06:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-1D
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	11:10:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-1S
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	11:11:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-1I
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	11:12:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-14S
Person Gauging:	Jake Swanson
Date:	2/6/2023
Time:	02:12:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWA-2
Person Gauging:	Jake Swanson
Date:	2/6/2023
Time:	09:16:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☐	☑	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
	Well ID is faded and bollards needs painting				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-1
Permit Number:	
Well ID:	YGWA-47
Person Gauging:	Jake Swanson
Date:	2/6/2023
Time:	11:02:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWA-39
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	12:35:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-21I
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	09:29:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☑	☐	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWA-40
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	11:51:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-17S
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	10:41:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-18I
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	10:18:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-20S
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	09:22:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-5D
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	09:38:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-5I
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	09:40:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-18S
Person Gauging:	Kim Lapszynski
Date:	2/6/2023
Time:	10:17:00

			Yes	No	N/A
1	Location Identification:				
	a	Is the well visible and accessible?	☑	☐	☐
	b	Is the well properly identified with the correct well ID?	☑	☐	☐
	c	Is the well in a high traffic area and does the well require protection from traffic?	☐	☑	☐
	d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	☑	☐	☐
2	Protective Casing:				
	a	Is the protective casing free from apparent damage and able to be secured?	☑	☐	☐
	b	Is the casing free of degradation or deterioration?	☑	☐	☐
	c	Does the casing have a functioning weep hole?	☑	☐	☐
	d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	☑	☐	☐
3	Surface Pad				
	a	Is the well pad in good condition (not cracked or broken)?	☑	☐	☐
	b	Is the well pad sloped away from the protective casing?	☑	☐	☐
	c	Is the well pad in complete contact with the protective casing?	☑	☐	☐
	d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	☑	☐	☐
	e	Is the pad surface clean (not covered with sediment or debris)?	☑	☐	☐
4	Internal Casing				
	a	Does the cap prevent entry of foreign material into the well?	☑	☐	☐
	b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	☑	☐	☐
	c	Is the well properly vented for equilibration of air pressure?	☑	☐	☐
	d	Is the survey point clearly marked on the inner casing?	☑	☐	☐
	e	Is the depth of the well consistent with the original well log?	☑	☐	☐
	f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	☑	☐	☐
5	Sampling: Groundwater Wells Only:				
	a	Does well recharge adequately when purged?	☑	☐	☐
	b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	☑	☐	☐
	c	Does the well require redevelopment (low flow, turbid)?	☐	☑	☐
6	Based on your professional judgement, is the well construction / location:				
		appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	☑	☐	☐
		and 2) comply with the applicable regulatory requirements?	☑	☐	☐
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Appendix C

Statistical Analysis Results

Appendix III Parameter	August 2022	February 2023
Boron	GWC-2R, GWC-4R	GWC-2R, GWC-4R
Calcium	GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R	GWC-1R, GWC-2R, GWC-4R, GWC-5R
Chloride	GWC-2R, GWC-4R	GWC-2R, GWC-4R
Sulfate	GWC-1R, GWC-2R, GWC-5R, GWC-6R	GWC-1R, GWC-2R, GWC-5R,
Total Dissolved Solids	GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R	GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R

August 2022

GROUNDWATER STATS CONSULTING

February 28, 2023

Southern Company Services
Attn: Ms. Lauren Hartley
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Yates CCR Landfill Gypsum Stack
August 2022 Statistical Analysis

Dear Ms. Hartley,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the August 2022 semi-annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant Yates Landfill Gypsum Stack. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division 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:** GWC-1R, GWC-2R, GWC-3R, GWC-4R, GWC-5R, GWC-6R

Note that in addition to the wells listed above, upgradient well GWA-1, which has not been sampled since 2004, provides historical information about upgradient groundwater quality for the majority of Georgia EPD constituents. GWA-1 is included on the time series graphs and box plots as reference data, but no formal statistics for this well are included in this report.

All data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Andrew Collins, Project Manager of Groundwater Stats Consulting. The analysis was prepared according to the recommended statistical methodology provided in the Fall 2017 by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting and primary author of the USEPA Unified Guidance.

The CCR and Georgia EPD programs consist of the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **CCR Appendix III:** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **CCR Appendix IV:** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lithium, lead, mercury, molybdenum, selenium, and thallium
- **Georgia EPD Appendix I & II:** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, silver, thallium, vanadium, and zinc

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. Summaries of all well/constituent pairs containing 100% non-detects for Appendix I and II parameters, and downgradient wells containing 100% non-detects for Appendix IV parameters follow this letter.

Combined upgradient well data from all units at Plant Yates are utilized to construct interwell prediction limits and upper tolerance limits for Appendix III and IV parameters, respectively.

Time series plots for all well/constituent pairs are provided and are particularly useful for screening parameters detected in downgradient wells which require statistical analyses

(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).

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. In order to account for varying reporting limits upgradient of the facility and maintain interwell upper tolerance limits that are conservative (i.e., lower) from a regulatory perspective, the most recent reporting limit of 0.0005 mg/L was substituted for beryllium. For intrawell prediction limits, the most recent reporting limit for a given well/constituent will be substituted for any non-detect values. Regarding the cases of cobalt and zinc, due to varying detection limits in individual wells, the most recent reporting limits of 0.005 mg/L and 0.01 mg/L, were respectfully substituted across all wells for all calculations and reports.

During previous screenings, data at all wells for constituents detected in downgradient wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided in the previous screening to demonstrate that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia Environmental Protection Division Rules for Solid Waste Management Chapter 391-3-4-.10. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations. Power curves were based on the following statistical methods:

Georgia EPD Appendix I & II Constituents:

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-2 resample plan (all parameters)
- # Constituents: 15 (Silver is either 100% non-detect or does not have any trace values close to the reporting limit in all downgradient wells)
- # Downgradient wells: 6

CCR Appendix III Constituents:

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-2 resample plan – (fluoride and pH)
- Interwell Prediction Limits with 1-of-2 resample plan – (boron, calcium, chloride, sulfate, and TDS)
- # Constituents: 7
- # Downgradient wells: 6

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 parametric limits is based on an annual 10% (5% per semi-annual event) as recommend by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric 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 screening for any new outliers. In the intrawell case, data for all wells and constituents may be re-evaluated when a minimum of 4 new data points are available to determine whether earlier concentrations are

representative of present-day groundwater quality. 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 Original Background Screenings – State and Federal

Georgia EPD Appendix I & II Constituents – Conducted in August 2019

Outlier Screening

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at all wells and 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, one outlier was identified. Although there were no cases of this present in the datasets, 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.

Tukey's test method did not identify outliers for the highest measurements of zinc in wells GWA-2, GWC-3R and GWC-4R; however, these values were flagged in the database so that resulting statistical limits will be lower and more conservative, i.e., sensitive to changes in concentrations. A list of all flagged outliers is presented in the Outlier Summary (Figure C).

Additionally, 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 display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made. 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 Testing

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, which tests for statistically significant increasing or decreasing trends, was used to evaluate data at all upgradient wells and downgradient wells with detections.

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 from current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

Statistically significant decreasing trends were noted for a few constituents, and one statistically significant increasing trend was identified for barium in well GWC-6R. The data sets were still relatively small, and the magnitudes of these trends were low relative to the average concentrations. Therefore, no adjustments were required to any of the records except for barium in wells GWC-4R and GWC-5R. Earlier measurements for barium in these wells were considerably higher than currently reported measurements. In order to construct prediction limits that are lower and more conservative from a regulatory perspective, only the more recent portion of these records were used for the statistical limits. All background data are re-evaluated during subsequent background updates.

CCR Appendix III Constituents – Conducted in April 2019

Outlier Screening

Data from each well/constituent pair were evaluated for outliers using the Tukey box plot method. A summary of those findings was submitted with the report. 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 display the flagged value in a lighter font as well.

Seasonality

No seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were required.

Trend Testing

The results of the trend analyses were included in the previous screening and showed a few statistically significant decreasing trends. Most of the trends noted were relatively low in magnitude when compared to average concentrations, and the background time period was short in 2019; therefore, no adjustments were made to the data sets. However, when decreasing trends persist over a longer period for parameters evaluated using intrawell methods at all wells or for parameters evaluated using interwell methods in upgradient wells, historical measurements may require deselection in order to maintain conservative (i.e., lower) limits.

Summary of Background Updates – State and Federal

Georgia EPD Appendix I & II and CCR Appendix III – March 2022

Outlier Analysis

Prior to updating background data, visual screening and Tukey's outlier test was used to evaluate data for suspected outliers in upgradient and downgradient wells through August 2021 for constituents tested using intrawell prediction limits and in pooled upgradient well data for constituents tested using interwell prediction and tolerance limits.

All of the more recent compliance measurements appeared stable with no spurious measurements compared to the previously screened historical data sets; therefore, no new outliers were flagged except for the most recent high reported measurements of cobalt in upgradient well GWA-2. These values were flagged in order to maintain conservative (i.e., lower) statistical limits. A summary of all flagged outliers follows this letter (Figure C).

Mann-Whitney Comparison of Medians

For constituents tested using intrawell prediction limits, the Mann-Whitney (Wilcoxon Rank Sum) test was used to compare the medians of historical data through October 2018 for state constituents and through February 2019 for federal constituents to new compliance samples at each well through August 2021. When the medians of the two groups are not statistically significantly different at the 99% confidence level, background data sets are updated to include the newer compliance data.

Typically, when the test concludes that the medians of the two groups are statistically significantly different, particularly in the downgradient wells, background data sets are not updated unless further research provides reasonable justification that the changes in concentrations reflect a naturally occurring shift unrelated to practices at the site. In studies such as the current one, in which at least one of the segments being compared is of short duration, the comparison is complicated by the fact that normal short-term variation may be mistaken for long-term change in medians.

All records with statistically significant Mann-Whitney results for upgradient and downgradient wells were updated. Similar shifts were noted in downgradient water quality conditions compared to those observed upgradient of the facility, such as in the case of the statistically significant increasing medians identified for zinc in upgradient well GWA-2R and downgradient well GWC-5R. Previously truncated records for barium at downgradient wells GWC-4R and GWC-5R were also updated with more recent data through 8/18/2021.

The statistically significant decreases identified in medians were either due to more recent reported trace values compared to previously reported nondetects, or variation in the records with lower compliance medians. Additionally, the compliance medians for well/constituent pairs containing variation in the record were lower than historical medians but similar to historical concentrations. Since the statistically significant decreases in medians between historical and compliance data sets signify lower concentrations and, generally, more conservative (i.e., lower) statistical limits, these cases were updated with more recent data.

In the case of pH at wells GWC-2R and GWC-5R, while more recent reported measurements were slightly lower than those reported historically, the measurements are similar to those reported in upgradient wells across all units (as may be seen on the time series graphs). Therefore, these records were also updated. Summaries of the Mann-Whitney test results for the state and federal parameters were included with the background update.

Trend Tests

For constituents requiring interwell prediction limits (boron, calcium, chloride, sulfate, and TDS), the Sen's Slope/Mann Kendall trend test, which tests for statistically significant increasing or decreasing trends, was used to evaluate data through August 2022 at all upgradient wells.

Several statistically significant increasing and decreasing trends were noted. However, since these are upgradient wells, the trends are likely the result of natural variation, and the patterns observed in these wells could reappear later in downgradient wells. Therefore, none of the records were adjusted.

Statistical Analysis of August 2022 Samples

Georgia EPD Appendix I & II Constituents – August 2022

Intrawell Prediction Limits

Intrawell limits constructed from carefully screened background data from within each well serve to provide statistical limits that are representative of the background data population, and that will rapidly identify a change in more recent compliance data from within a given well. The most recent sample from the same well is compared to its respective background. This statistical method removes the element of variation from across wells and eliminates the chance of mistaking natural spatial variation for a release from the facility.

In cases where downgradient average concentrations are higher than observed upgradient concentrations for a given constituent where intrawell analyses are recommended, the current assumption is that this is due to natural spatial variation rather than a result of practices at the landfill. Validation of this assumption requires a separate analysis or investigation that is beyond the scope of this data screening study. However, for this site, the pre-waste data support the assumption of natural variation rather than impacts of the landfill.

Intrawell prediction limits, combined with a 1-of-2 resample plan, were constructed using all available data through August 2021, except for the cases mentioned above and listed in the background date range table (Figure D). Additionally, no statistical analyses were included for well/constituent pairs containing 100% non-detects.

Note that during this sample event, the reporting limit for copper at upgradient well GWA-2 decreased from the historical reporting limit of 0.025 mg/L to 0.005 mg/L. As a result of the substitution method of the most recent reporting limit for all non-detect measurements, the intrawell prediction limit also decreased to 0.0074 mg/L compared to the limit of 0.025 mg/L constructed during the background update in March 2022. No statistical exceedance resulted from the lower statistical limit.

Compliance data from the August 2022 sample event are compared to the intrawell background limits. A statistical exceedance was identified in the following well:

- Selenium: GWC-1R

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 the resample confirms the initial exceedance, a statistically significant increase (SSI) is identified, and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If any resample falls within the statistical limit, the initial exceedance is considered to be a false positive result, and no further action is necessary.

Note that the reported August 2022 observation of 0.03 mg/L for selenium at well GWC-1R is below the respective Maximum Contaminant Level (MCL) of 0.05 mg/L.

Trend Test Evaluation – Appendix I & II

When prediction limit exceedances occur in any of the 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. Upgradient wells are included in the trend analyses 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. A summary and graphical presentation of the trend test results follows this letter (Figure G). No statistically significant increasing or decreasing trend was noted for selenium at well GWC-1R. Note that for selenium at upgradient well YGWA-17S, a statistically significant increasing trend was identified. The slope, however, is zero at this well which represents the median slope of all the possible pairwise slopes of the data evaluated.

CCR Appendix III Constituents – August 2022

Intrawell Prediction Limits

For fluoride and pH, intrawell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical data through August 2021 (Figure E). The August 2022 sample from each well is compared to the background limit to determine whether there are exceedances over background. An exceedance was identified for pH at upgradient well GWA-2.

Interwell Prediction Limits

For Appendix III parameters that are analyzed using interwell prediction limits (boron, calcium, chloride, sulfate, and TDS), background (upgradient) well data from all the Yates units were re-assessed for potential outliers during this analysis. No new outliers were flagged for Appendix III parameters using interwell prediction limits. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data from all of the Yates units through August 2022 (Figure F). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent.

The August 2022 sample from each downgradient well is compared to the background limit to determine whether there are exceedances over background. Exceedances were noted for the following downgradient well/constituent pairs:

- Boron: GWC-2R and GWC-4R
- Calcium: GWC-1R, GWC-2R, GWC-4R, GWC-5R, and GWC-6R
- Chloride: GWC-2R and GWC-4R
- Sulfate: GWC-1R, GWC-2R, GWC-5R, and GWC-6R
- TDS: GWC-1R, GWC-2R, GWC-4R, GWC-5R, and GWC-6R

Trend Test Evaluation – Appendix III

Data from downgradient well/constituent pairs found to exceed their respective intrawell and interwell prediction limits were further evaluated using the Sen's Slope/Mann Kendall trend test. Trend tests were also performed for upgradient wells across all Yates units

(Figure G). Statistically significant trends were identified among the following downgradient well/constituent pairs:

Trends – Intrawell Prediction Limit Exceedances

Increasing
- pH: YGWA-21I (upgradient)

Decreasing
- pH: GWA-2, YGWA-18S, YGWA-39, YGWA-47, YGWA-4I, and YGWA-5D (All Upgradient)

Trends – Interwell Prediction Limit Exceedances

Increasing
- Calcium: GWA-2, YGWA-1D, YGWA-17S, YGWA-21I (all upgradient) and GWC-2R
- Chloride: GWA-2, YGWA-17S, YGWA-18S, YGWA-20S, YGWA-40 (All upgradient) and GWC-2R
- Sulfate: GWA-2, YGWA-1D, YGWA-3D, YGWA-3I, YGWA-5I (all upgradient) and GWC-2R
- TDS: GWA-2, YGWA-39 (both upgradient), and GWC-2R

Decreasing
- Boron: YGWA-40 (upgradient)
- Calcium: YGWA-1I, YGWA-5D, YGWA-18S, and YGWA-47 (all upgradient)
- Chloride: YGWA-3D, YGWA-5D, and YGWA-47 (all upgradient)
- Sulfate: YGWA-5D, YGWA-18I, YGWA-39, YGWA-40, and YGWA-47 (all upgradient)
- TDS: YGWA-5D and YGWA-47 (both upgradient)

When trends are noted upgradient of the facility, it is an indication that groundwater concentrations are naturally changing over time.

Statistical Analysis of CCR Appendix IV Parameters – August 2022

For analysis of Appendix IV parameters, confidence intervals for each downgradient well/constituent were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis.

A high value of 0.075 mg/L for cobalt at upgradient well GWA-2 from the August 2022 sample event was flagged as an outlier and deselected prior to construction of statistical limits in order to maintain statistical limits that are conservative (i.e., lower) from a regulatory perspective. The more recent reported measurements of cobalt 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 tolerance 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 from all the Yates units for Appendix IV constituents (Figure H). 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 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 (i.e., false positive rate) 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 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). On February 22, 2022, Georgia EPD incorporated the CCR-rule specified limits for these constituents (391-3-4-.10(6)(a)) which are utilized in this analysis. Following Georgia EPD Rule requirements

and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for the August 2022 sample event (Figure I).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for the Appendix IV constituents in each downgradient well using all historical data since 2016 (Figure J). As mentioned above, confidence intervals were not required for downgradient well/constituent pairs containing 100% non-detects since 2016. The Sanitas software was used to calculate the tolerance limits and the confidence intervals. The confidence intervals were compared to the GWPS established using the Georgia EPD Rules 391-3-4-.10(6)(a). 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. A summary of the confidence intervals and complete graphical results follow this letter. No exceedances were identified for the confidence intervals.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Yates CCR Landfill Gypsum Stack. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Abdul Diane
Groundwater Analyst

Andrew T. Collins
Project Manager

Date Ranges

Date: 10/11/2022 3:23 PM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Barium (mg/L)

GWC-4R background:3/28/2011-8/18/2021

GWC-5R background:8/14/2013-8/18/2021

100% Non-Detects: Appendix I & II

Analysis Run 10/24/2022 11:38 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Antimony (mg/L)
GWC-1R, GWC-3R, GWC-6R

Beryllium (mg/L)
GWA-2, GWC-6R

Cadmium (mg/L)
GWA-2, GWC-6R

Lead (mg/L)
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 10/24/2022 12:54 PM View: Appendix IV
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

Appendix I & II Intrawell Prediction Limit - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/25/2022, 1:34 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	**GWC-1R**	**0.019**	**n/a**	**8/30/2022**	**0.03**	**Yes**	**27**	**n/a**	**n/a**	**48.15**	**n/a**	**n/a**	**0.002502**	**NP Intra (normality) 1 of 2**

Appendix I & II Intrawell Prediction Limit - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/25/2022, 1:34 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-2	0.003	n/a	8/30/2022	0.003ND	No	36	n/a	n/a	91.67	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-2R	0.003	n/a	8/31/2022	0.003ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-4R	0.003	n/a	8/30/2022	0.00094J	No	32	n/a	n/a	90.63	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-5R	0.003	n/a	8/30/2022	0.003ND	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-2	0.005	n/a	8/30/2022	0.0024J	No	36	n/a	n/a	94.44	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-1R	0.005	n/a	8/30/2022	0.0035J	No	27	n/a	n/a	77.78	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-2R	0.005	n/a	8/31/2022	0.005ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-3R	0.005	n/a	8/30/2022	0.005ND	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-4R	0.005	n/a	8/30/2022	0.005ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-5R	0.005	n/a	8/30/2022	0.0035J	No	27	n/a	n/a	48.15	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Arsenic (mg/L)	GWC-6R	0.005	n/a	8/30/2022	0.005ND	No	33	n/a	n/a	72.73	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWA-2	0.07655	n/a	8/30/2022	0.031	No	36	0.04995	0.01231	0	None	No	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-1R	0.09209	n/a	8/30/2022	0.058	No	27	0.04909	0.01922	0	None	No	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-2R	0.13	n/a	8/31/2022	0.026	No	32	n/a	n/a	0	n/a	n/a	0.001803	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-3R	0.08517	n/a	8/30/2022	0.01	No	27	0.3004	0.06239	0	None	x^(1/3)	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-4R	0.06816	n/a	8/30/2022	0.022	No	28	0.3039	0.04699	0	None	x^(1/3)	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-5R	0.058	n/a	8/30/2022	0.01	No	23	n/a	n/a	0	n/a	n/a	0.003415	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-6R	0.09329	n/a	8/30/2022	0.028	No	33	0.04743	0.02102	0	None	No	0.0005852	Param Intra 1 of 2
Beryllium (mg/L)	GWC-1R	0.003	n/a	8/30/2022	0.00037J	No	27	n/a	n/a	48.15	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWC-2R	0.003	n/a	8/31/2022	0.00023J	No	32	n/a	n/a	71.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-3R	0.003	n/a	8/30/2022	0.00056	No	27	n/a	n/a	25.93	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWC-4R	0.003	n/a	8/30/2022	0.000072J	No	32	n/a	n/a	90.63	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-5R	0.0037	n/a	8/30/2022	0.0032	No	27	n/a	n/a	25.93	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Cadmium (mg/L)	GWC-1R	0.0025	n/a	8/30/2022	0.00026J	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-2R	0.0005	n/a	8/31/2022	0.00012J	No	32	n/a	n/a	81.25	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-3R	0.0025	n/a	8/30/2022	0.00016J	No	27	n/a	n/a	62.96	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-4R	0.0005	n/a	8/30/2022	0.00011J	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-5R	0.00114	n/a	8/30/2022	0.00098	No	27	4.6e-10	4.5e-10	29.63	Kaplan-Meier	x^3	0.0005852	Param Intra 1 of 2
Chromium (mg/L)	GWA-2	0.0084	n/a	8/30/2022	0.005ND	No	36	n/a	n/a	77.78	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-1R	0.01	n/a	8/30/2022	0.0015J	No	27	n/a	n/a	44.44	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-2R	0.005	n/a	8/31/2022	0.005ND	No	32	n/a	n/a	84.38	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-3R	0.005	n/a	8/30/2022	0.005ND	No	27	n/a	n/a	29.63	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-4R	0.0062	n/a	8/30/2022	0.005ND	No	32	n/a	n/a	81.25	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-5R	0.01	n/a	8/30/2022	0.0019J	No	27	n/a	n/a	18.52	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-6R	0.01	n/a	8/30/2022	0.0016J	No	33	n/a	n/a	33.33	n/a	n/a	0.001701	NP Intra (normality) 1 of 2
Cobalt (mg/L)	GWA-2	0.006801	n/a	n/a	1 future	n/a	32	0.00327	0.001613	34.38	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-1R	0.015	n/a	8/30/2022	0.00087J	No	27	n/a	n/a	37.04	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Cobalt (mg/L)	GWC-2R	0.04592	n/a	8/31/2022	0.0036J	No	32	0.02134	0.01123	3.125	None	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-3R	0.011	n/a	8/30/2022	0.0021J	No	27	n/a	n/a	74.07	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-4R	0.006272	n/a	8/30/2022	0.002J	No	32	0.002253	0.001836	28.13	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-5R	0.005	n/a	8/30/2022	0.00077J	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-6R	0.005	n/a	8/30/2022	0.005ND	No	33	n/a	n/a	96.97	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-2	0.0074	n/a	8/30/2022	0.005ND	No	29	n/a	n/a	44.83	n/a	n/a	0.002172	NP Intra (normality) 1 of 2
Copper (mg/L)	GWC-1R	0.005	n/a	8/30/2022	0.005ND	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-2R	0.005	n/a	8/31/2022	0.005ND	No	25	n/a	n/a	96	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-3R	0.016	n/a	8/30/2022	0.005ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-4R	0.005	n/a	8/30/2022	0.005ND	No	25	n/a	n/a	84	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-5R	0.005	n/a	8/30/2022	0.005ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-6R	0.005	n/a	8/30/2022	0.005ND	No	26	n/a	n/a	50	n/a	n/a	0.002667	NP Intra (normality) 1 of 2
Lead (mg/L)	GWA-2	0.001	n/a	8/30/2022	0.001ND	No	36	n/a	n/a	97.22	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2

Appendix I & II Intrawell Prediction Limit - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/25/2022, 1:34 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	GWC-1R	0.001	n/a	8/30/2022	0.001ND	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-2R	0.001	n/a	8/31/2022	0.001ND	No	32	n/a	n/a	78.13	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-3R	0.001	n/a	8/30/2022	0.001ND	No	27	n/a	n/a	74.07	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-4R	0.001	n/a	8/30/2022	0.001ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-5R	0.001	n/a	8/30/2022	0.001ND	No	27	n/a	n/a	77.78	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWA-2	0.0002	n/a	8/30/2022	0.0002ND	No	36	n/a	n/a	94.44	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-1R	0.0002	n/a	8/30/2022	0.0002ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-2R	0.0002	n/a	8/31/2022	0.0002ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-3R	0.00043	n/a	8/30/2022	0.0002ND	No	27	n/a	n/a	88.89	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-4R	0.0002	n/a	8/30/2022	0.00014J	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-5R	0.0002	n/a	8/30/2022	0.0002ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-6R	0.0002	n/a	8/30/2022	0.0002ND	No	33	n/a	n/a	93.94	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-2	0.034	n/a	8/30/2022	0.015	No	29	n/a	n/a	10.34	n/a	n/a	0.002172	NP Intra (normality) 1 of 2
Nickel (mg/L)	GWC-1R	0.008772	n/a	8/30/2022	0.0027J	No	20	-6.236	0.6381	30	Kaplan-Meier	ln(x)	0.0005852	Param Intra 1 of 2
Nickel (mg/L)	GWC-2R	0.0096	n/a	8/31/2022	0.005ND	No	25	n/a	n/a	44	n/a	n/a	0.002832	NP Intra (normality) 1 of 2
Nickel (mg/L)	GWC-3R	0.0054	n/a	8/30/2022	0.005ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-4R	0.01	n/a	8/30/2022	0.0021J	No	25	n/a	n/a	60	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-5R	0.004969	n/a	8/30/2022	0.00097J	No	20	0.04397	0.01129	20	Kaplan-Meier	sqrt(x)	0.0005852	Param Intra 1 of 2
Nickel (mg/L)	GWC-6R	0.005	n/a	8/30/2022	0.005ND	No	26	n/a	n/a	65.38	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Selenium (mg/L)	**GWC-1R**	**0.019**	**n/a**	**8/30/2022**	**0.03**	**Yes**	**27**	**n/a**	**n/a**	**48.15**	**n/a**	**n/a**	**0.002502**	**NP Intra (normality) 1 of 2**
Selenium (mg/L)	GWC-2R	0.01	n/a	8/31/2022	0.0042J	No	32	n/a	n/a	50	n/a	n/a	0.001803	NP Intra (normality) 1 of 2
Selenium (mg/L)	GWC-3R	0.017	n/a	8/30/2022	0.0068	No	27	n/a	n/a	40.74	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Selenium (mg/L)	GWC-4R	0.01445	n/a	8/30/2022	0.0038J	No	32	0.07177	0.02213	25	Kaplan-Meier	sqrt(x)	0.0005852	Param Intra 1 of 2
Selenium (mg/L)	GWC-5R	0.04089	n/a	8/30/2022	0.019	No	27	0.02169	0.008579	3.704	None	No	0.0005852	Param Intra 1 of 2
Selenium (mg/L)	GWC-6R	0.0051	n/a	8/30/2022	0.005ND	No	33	n/a	n/a	51.52	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-2	0.001	n/a	8/30/2022	0.001ND	No	35	n/a	n/a	88.57	n/a	n/a	0.001497	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-2R	0.001	n/a	8/31/2022	0.001ND	No	30	n/a	n/a	96.67	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-5R	0.001	n/a	8/30/2022	0.001ND	No	26	n/a	n/a	96.15	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-2	0.01	n/a	8/30/2022	0.0026J	No	31	n/a	n/a	83.87	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-1R	0.01	n/a	8/30/2022	0.01ND	No	22	n/a	n/a	86.36	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-2R	0.01	n/a	8/31/2022	0.01ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-3R	0.01	n/a	8/30/2022	0.01ND	No	22	n/a	n/a	90.91	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-4R	0.01	n/a	8/30/2022	0.01ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-5R	0.01	n/a	8/30/2022	0.01ND	No	22	n/a	n/a	86.36	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-6R	0.01	n/a	8/30/2022	0.01ND	No	28	n/a	n/a	78.57	n/a	n/a	0.002337	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-2	0.02538	n/a	8/30/2022	0.011	No	30	-5.103	0.6488	10	None	ln(x)	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-1R	0.01	n/a	8/30/2022	0.01ND	No	22	n/a	n/a	31.82	n/a	n/a	0.003707	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-2R	0.01022	n/a	8/31/2022	0.01ND	No	27	-5.718	0.507	18.52	Kaplan-Meier	ln(x)	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-3R	0.01375	n/a	8/30/2022	0.01ND	No	21	0.006395	0.003152	9.524	None	No	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-4R	0.01	n/a	8/30/2022	0.01ND	No	26	n/a	n/a	69.23	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-5R	0.02878	n/a	8/30/2022	0.022	No	23	0.01173	0.007426	0	None	No	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-6R	0.01	n/a	8/30/2022	0.01ND	No	28	n/a	n/a	42.86	n/a	n/a	0.002337	NP Intra (normality) 1 of 2

Intawell Prediction Limits Appendix III - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/21/2022, 4:33 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (S.U.)	**GWA-2**	**6.968**	**5.399**	**8/30/2022**	**5.39**	**Yes**	**30**	**6.184**	**0.3941**	**0**	**None**	**No**	**0.0006268**	**Param Intra 1 of 2**

Intawell Prediction Limits Appendix III - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/21/2022, 4:33 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GWA-2	0.2542	n/a	8/30/2022	0.086J	No	17	0.3185	0.08513	5.882	None	sqrt(x)	0.001254	Param Intra 1 of 2
Fluoride (mg/L)	GWC-1R	0.1	n/a	8/30/2022	0.1ND	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-2R	0.58	n/a	8/31/2022	0.1ND	No	17	n/a	n/a	70.59	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-3R	0.4329	n/a	8/30/2022	0.14	No	17	-2.548	0.7843	41.18	Kaplan-Meier	ln(x)	0.001254	Param Intra 1 of 2
Fluoride (mg/L)	GWC-4R	0.15	n/a	8/30/2022	0.05J	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-5R	0.37	n/a	8/30/2022	0.11	No	17	n/a	n/a	52.94	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-6R	0.28	n/a	8/30/2022	0.064J	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
pH (S.U.)	**GWA-2**	**6.968**	**5.399**	**8/30/2022**	**5.39**	**Yes**	**30**	**6.184**	**0.3941**	**0**	**None**	**No**	**0.0006268**	**Param Intra 1 of 2**
pH (S.U.)	GWC-1R	6.8	4.49	8/30/2022	5.07	No	18	n/a	n/a	0	n/a	n/a	0.01075	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-2R	6.8	4.35	8/31/2022	5.23	No	25	n/a	n/a	0	n/a	n/a	0.005664	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-3R	5.572	4.528	8/30/2022	4.85	No	18	25.78	2.447	0	None	x^2	0.0006268	Param Intra 1 of 2
pH (S.U.)	GWC-4R	6.16	5.07	8/30/2022	5.52	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-5R	5.568	4.599	8/30/2022	4.86	No	19	5.084	0.2272	0	None	No	0.0006268	Param Intra 1 of 2
pH (S.U.)	GWC-6R	6.79	5.2	8/30/2022	5.82	No	28	n/a	n/a	0	n/a	n/a	0.004674	NP Intra (normality) 1 of 2

Interwell Prediction Limits Appendix III - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/20/2022, 1:59 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-2R	0.16	n/a	8/31/2022	0.19	Yes	350	n/a	n/a	48.57	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-4R	0.16	n/a	8/30/2022	4.4	Yes	350	n/a	n/a	48.57	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1R	37	n/a	8/30/2022	189	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2R	37	n/a	8/31/2022	46.9	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-4R	37	n/a	8/30/2022	55.8	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-5R	37	n/a	8/30/2022	135	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-6R	37	n/a	8/30/2022	40.6	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2R	12	n/a	8/31/2022	14.5	Yes	350	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-4R	12	n/a	8/30/2022	146	Yes	350	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	8/30/2022	994	Yes	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2R	160	n/a	8/31/2022	280	Yes	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-5R	160	n/a	8/30/2022	939	Yes	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-6R	160	n/a	8/30/2022	174	Yes	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
TDS (mg/L)	GWC-1R	218.7	n/a	8/30/2022	1600	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-2R	218.7	n/a	8/31/2022	510	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-4R	218.7	n/a	8/30/2022	628	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-5R	218.7	n/a	8/30/2022	1570	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-6R	218.7	n/a	8/30/2022	400	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2

Interwell Prediction Limits Appendix III - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/20/2022, 1:59 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-1R	0.16	n/a	8/30/2022	0.015J	No	350	n/a	n/a	48.57	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	**GWC-2R**	**0.16**	**n/a**	**8/31/2022**	**0.19**	**Yes**	**350**	**n/a**	**n/a**	**48.57**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	GWC-3R	0.16	n/a	8/30/2022	0.014J	No	350	n/a	n/a	48.57	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	**GWC-4R**	**0.16**	**n/a**	**8/30/2022**	**4.4**	**Yes**	**350**	**n/a**	**n/a**	**48.57**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	GWC-5R	0.16	n/a	8/30/2022	0.058	No	350	n/a	n/a	48.57	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-6R	0.16	n/a	8/30/2022	0.0092J	No	350	n/a	n/a	48.57	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GWC-1R**	**37**	**n/a**	**8/30/2022**	**189**	**Yes**	**350**	**n/a**	**n/a**	**0.8571**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-2R**	**37**	**n/a**	**8/31/2022**	**46.9**	**Yes**	**350**	**n/a**	**n/a**	**0.8571**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	GWC-3R	37	n/a	8/30/2022	17.5	No	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GWC-4R**	**37**	**n/a**	**8/30/2022**	**55.8**	**Yes**	**350**	**n/a**	**n/a**	**0.8571**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-5R**	**37**	**n/a**	**8/30/2022**	**135**	**Yes**	**350**	**n/a**	**n/a**	**0.8571**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-6R**	**37**	**n/a**	**8/30/2022**	**40.6**	**Yes**	**350**	**n/a**	**n/a**	**0.8571**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	GWC-1R	12	n/a	8/30/2022	5.6	No	350	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	**GWC-2R**	**12**	**n/a**	**8/31/2022**	**14.5**	**Yes**	**350**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	GWC-3R	12	n/a	8/30/2022	3.1	No	350	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	**GWC-4R**	**12**	**n/a**	**8/30/2022**	**146**	**Yes**	**350**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	GWC-5R	12	n/a	8/30/2022	1.8	No	350	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6R	12	n/a	8/30/2022	7.5	No	350	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**	**8/30/2022**	**994**	**Yes**	**350**	**n/a**	**n/a**	**6**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GWC-2R**	**160**	**n/a**	**8/31/2022**	**280**	**Yes**	**350**	**n/a**	**n/a**	**6**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GWC-3R	160	n/a	8/30/2022	76	No	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-4R	160	n/a	8/30/2022	155	No	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GWC-5R**	**160**	**n/a**	**8/30/2022**	**939**	**Yes**	**350**	**n/a**	**n/a**	**6**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GWC-6R**	**160**	**n/a**	**8/30/2022**	**174**	**Yes**	**350**	**n/a**	**n/a**	**6**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GWC-1R**	**218.7**	**n/a**	**8/30/2022**	**1600**	**Yes**	**350**	**10.07**	**2.588**	**0.5714**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-2R**	**218.7**	**n/a**	**8/31/2022**	**510**	**Yes**	**350**	**10.07**	**2.588**	**0.5714**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	GWC-3R	218.7	n/a	8/30/2022	150	No	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	**GWC-4R**	**218.7**	**n/a**	**8/30/2022**	**628**	**Yes**	**350**	**10.07**	**2.588**	**0.5714**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-5R**	**218.7**	**n/a**	**8/30/2022**	**1570**	**Yes**	**350**	**10.07**	**2.588**	**0.5714**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-6R**	**218.7**	**n/a**	**8/30/2022**	**400**	**Yes**	**350**	**10.07**	**2.588**	**0.5714**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**

Trend Test Summary (Prediction Limit Exceedances) - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/20/2022, 2:27 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-40 (bg)	-0.01529	-77	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	3.453	82	63	Yes	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-2R	6.93	90	63	Yes	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.1364	109	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.08039	-114	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.6514	86	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.09504	-93	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	0.9751	97	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.342	-95	-58	Yes	16	6.25	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.676	-100	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.2567	74	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-2R	1.896	67	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.5433	127	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18I (bg)	0.1027	78	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.1337	107	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.0435	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.326	66	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.4528	-84	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.7454	-124	-74	Yes	19	0	n/a	n/a	0.01	NP
pH (S.U.)	GWA-2 (bg)	-0.04438	-195	-161	Yes	32	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-18S (bg)	-0.05687	-138	-98	Yes	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-21I (bg)	0.1311	120	98	Yes	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-39 (bg)	-0.2106	-105	-74	Yes	19	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-47 (bg)	-0.0405	-71	-68	Yes	18	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-4I (bg)	-0.0501	-99	-98	Yes	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-5D (bg)	-0.07627	-102	-92	Yes	22	0	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-17S (bg)	0	100	87	Yes	21	71.43	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	17.26	87	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-2R	30.08	74	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.9733	121	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.631	-74	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.3364	89	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	1.016	86	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-8.899	-89	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-17.58	-107	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-2.862	-129	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.08795	115	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-2 (bg)	21.5	67	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-2R	60.19	82	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-39 (bg)	30.24	64	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-47 (bg)	-14.82	-90	-58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-5D (bg)	-12.99	-99	-74	Yes	19	0	n/a	n/a	0.01	NP

Trend Test Summary (Prediction Limit Exceedances) - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/20/2022, 2:27 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GWA-2 (bg)	0	23	63	No	17	64.71	n/a	n/a	0.01	NP
Boron (mg/L)	GWC-2R	0.01449	53	63	No	17	5.882	n/a	n/a	0.01	NP
Boron (mg/L)	GWC-4R	0.2837	34	63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.000665	-40	-74	No	19	10.53	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	0.0001704	22	74	No	19	10.53	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-22	-74	No	19	78.95	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.000309	24	74	No	19	21.05	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.0008221	34	74	No	19	36.84	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-8	-74	No	19	73.68	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-9	-74	No	19	89.47	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	-0.0004731	-56	-74	No	19	57.89	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	-6	-74	No	19	78.95	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-19	-74	No	19	84.21	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.01331	56	58	No	16	6.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	0	74	No	19	57.89	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-17	-74	No	19	89.47	n/a	n/a	0.01	NP
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01529**	**-77**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-47 (bg)	-0.0008357	-55	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-4I (bg)	0	1	74	No	19	68.42	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0003037	31	74	No	19	10.53	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-25	-74	No	19	63.16	n/a	n/a	0.01	NP
Calcium (mg/L)	**GWA-2 (bg)**	**3.453**	**82**	**63**	**Yes**	**17**	**5.882**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GWC-1R	16.13	40	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GWC-2R**	**6.93**	**90**	**63**	**Yes**	**17**	**5.882**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GWC-4R	4.726	48	63	No	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-5R	4.933	50	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-6R	-4.001	-15	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-14S (bg)	0	-15	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-17S (bg)**	**0.1364**	**109**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-18I (bg)	0.04637	26	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-18S (bg)**	**-0.08039**	**-114**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1D (bg)**	**0.6514**	**86**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1I (bg)**	**-0.09504**	**-93**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-20S (bg)	0.03848	54	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-21I (bg)**	**0.9751**	**97**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-2I (bg)	0.08578	13	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0.0125	31	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	1.273	55	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.4525	59	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.5467	60	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-40 (bg)	-0.6546	-42	-58	No	16	6.25	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-47 (bg)**	**-1.342**	**-95**	**-58**	**Yes**	**16**	**6.25**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-4I (bg)	0.04736	10	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-5D (bg)**	**-1.676**	**-100**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-5I (bg)	0.06231	74	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GWA-2 (bg)**	**0.2567**	**74**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GWC-2R**	**1.896**	**67**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GWC-4R	8.737	26	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1251	51	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-17S (bg)**	**0.5433**	**127**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-18I (bg)**	**0.1027**	**78**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-18S (bg)	0.1557	72	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	0	-37	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	-0.01802	-38	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-20S (bg)**	**0.1337**	**107**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-21I (bg)	-0.1148	-56	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.02221	-34	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	0	-8	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.768	51	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.0435**	**-80**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-3I (bg)	-0.02929	-65	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-40 (bg)**	**0.326**	**66**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.4528**	**-84**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-4I (bg)	0.08123	41	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.7454**	**-124**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-5I (bg)	0	5	74	No	19	0	n/a	n/a	0.01	NP
pH (S.U.)	**GWA-2 (bg)**	**-0.04438**	**-195**	**-161**	**Yes**	**32**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	YGWA-14S (bg)	-0.01086	-32	-98	No	23	0	n/a	n/a	0.01	NP

Trend Test Summary (Prediction Limit Exceedances) - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/20/2022, 2:27 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH (S.U.)	YGWA-17S (bg)	-0.01344	-86	-92	No	22	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-18I (bg)	-0.02714	-70	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	**YGWA-18S (bg)**	**-0.05687**	**-138**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	YGWA-1D (bg)	-0.05026	-77	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-1I (bg)	-0.03356	-69	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-20S (bg)	0.01912	54	98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	**YGWA-21I (bg)**	**0.1311**	**120**	**98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	YGWA-2I (bg)	-0.02039	-33	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-30I (bg)	0.002761	9	92	No	22	0	n/a	n/a	0.01	NP
pH (S.U.)	**YGWA-39 (bg)**	**-0.2106**	**-105**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	YGWA-3D (bg)	-0.007396	-18	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-3I (bg)	-0.02691	-45	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-40 (bg)	-0.05563	-28	-74	No	19	0	n/a	n/a	0.01	NP
pH (S.U.)	**YGWA-47 (bg)**	**-0.0405**	**-71**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	**YGWA-4I (bg)**	**-0.0501**	**-99**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	**YGWA-5D (bg)**	**-0.07627**	**-102**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	YGWA-5I (bg)	-0.02829	-70	-98	No	23	0	n/a	n/a	0.01	NP
Selenium (mg/L)	GWA-2 (bg)	0	0	206	No	38	100	n/a	n/a	0.01	NP
Selenium (mg/L)	GWC-1R	0	35	139	No	29	44.83	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-14S (bg)	0	48	81	No	20	70	n/a	n/a	0.01	NP
Selenium (mg/L)	**YGWA-17S (bg)**	**0**	**100**	**87**	**Yes**	**21**	**71.43**	**n/a**	**n/a**	**0.01**	**NP**
Selenium (mg/L)	YGWA-18I (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-18S (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-1D (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-1I (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-20S (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-21I (bg)	0	39	92	No	22	90.91	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-2I (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-30I (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-39 (bg)	0	3	68	No	18	94.44	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-3D (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-3I (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-40 (bg)	-0.0004047	-36	-68	No	18	38.89	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-47 (bg)	0	19	43	No	13	84.62	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-4I (bg)	0	5	92	No	22	90.91	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-5D (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-5I (bg)	0	19	92	No	22	95.45	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GWA-2 (bg)**	**17.26**	**87**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GWC-1R	53.16	32	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GWC-2R**	**30.08**	**74**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GWC-5R	-5.906	-4	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-6R	-50.61	-32	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-14S (bg)	0	-4	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0.04813	32	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.1345	-67	-74	No	19	21.05	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18S (bg)	-0.1232	-53	-74	No	19	10.53	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-1D (bg)**	**0.9733**	**121**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-1I (bg)	-0.1053	-22	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	42	74	No	19	68.42	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.2256	-45	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	1.041	62	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.01853	-15	-74	No	19	10.53	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-39 (bg)**	**-2.631**	**-74**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3D (bg)**	**0.3364**	**89**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3I (bg)**	**1.016**	**86**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-40 (bg)**	**-8.899**	**-89**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-47 (bg)**	**-17.58**	**-107**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-4I (bg)	0.04641	22	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-5D (bg)**	**-2.862**	**-129**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-5I (bg)**	**0.08795**	**115**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GWA-2 (bg)**	**21.5**	**67**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GWC-1R	114.2	34	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GWC-2R**	**60.19**	**82**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GWC-4R	29.83	31	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-5R	14.04	8	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-6R	-39.39	-20	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-14S (bg)	0.3698	12	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-17S (bg)	3.694	44	74	No	19	0	n/a	n/a	0.01	NP

Trend Test Summary (Prediction Limit Exceedances) - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/20/2022, 2:27 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
TDS (mg/L)	YGWA-18I (bg)	-0.8196	-19	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-18S (bg)	0.4345	10	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-1D (bg)	0.7444	13	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-1I (bg)	-2.443	-37	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-20S (bg)	2.688	34	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-21I (bg)	10.54	68	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-2I (bg)	-1.72	-28	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-30I (bg)	2.114	27	74	No	19	10.53	n/a	n/a	0.01	NP
TDS (mg/L)	**YGWA-39 (bg)**	**30.24**	**64**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-3D (bg)	0.7739	9	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-3I (bg)	0.954	9	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-40 (bg)	-11.03	-58	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	**YGWA-47 (bg)**	**-14.82**	**-90**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-4I (bg)	0	-1	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	**YGWA-5D (bg)**	**-12.99**	**-99**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-5I (bg)	0	3	74	No	19	0	n/a	n/a	0.01	NP

Upper Tolerance Limit Summary Table

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/24/2022, 12:46 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0047	n/a	n/a	n/a	n/a	372	n/a	n/a	87.63	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	420	n/a	n/a	74.76	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.071	n/a	n/a	n/a	n/a	420	n/a	n/a	2.619	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	404	n/a	n/a	80.2	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.00063	n/a	n/a	n/a	n/a	404	n/a	n/a	95.54	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0093	n/a	n/a	n/a	n/a	372	n/a	n/a	80.11	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a	414	n/a	n/a	69.32	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	6.92	n/a	n/a	n/a	n/a	399	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	n/a	0.68	n/a	n/a	n/a	n/a	419	n/a	n/a	65.63	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	n/a	374	n/a	n/a	85.29	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a	399	n/a	n/a	26.32	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	n/a	0.00064	n/a	n/a	n/a	n/a	328	n/a	n/a	93.29	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	n/a	363	n/a	n/a	60.33	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	402	n/a	n/a	92.29	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	338	n/a	n/a	97.04	n/a	n/a	NaN	NP Inter(NDs)

YATES LANDFILL GYPSUM STACK GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0047	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.071	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.00063	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)	n/a	0.015	0.0013	0.0013
Lithium, Total (mg/L)	n/a	0.04	0.03	0.03
Mercury, Total (mg/L)	0.002		0.00064	0.002
Molybdenum, Total (mg/L)	n/a	0.1	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*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

Confidence Interval Summary Table - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/21/2022, 4:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	Transform	Alpha	Method
Antimony (mg/L)	GWC-2R	0.003	0.003	0.006	No	34	0.0002229	97.06	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-4R	0.003	0.0017	0.006	No	34	0.000758	85.29	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-5R	0.003	0.00054	0.006	No	29	0.0006648	93.1	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-1R	0.005	0.0035	0.01	No	29	0.001637	72.41	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-2R	0.005	0.0011	0.01	No	34	0.0009742	94.12	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-3R	0.005	0.0028	0.01	No	29	0.001418	79.31	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-4R	0.005	0.0013	0.01	No	34	0.001228	91.18	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-5R	0.005	0.0012	0.01	No	29	0.001849	44.83	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-6R	0.005	0.0023	0.01	No	35	0.001798	74.29	No	0.01	NP (normality)
Barium (mg/L)	GWC-1R	0.05862	0.04135	2	No	29	0.01885	0	No	0.01	Param.
Barium (mg/L)	GWC-2R	0.06373	0.0475	2	No	34	0.02368	0	ln(x)	0.01	Param.
Barium (mg/L)	GWC-3R	0.03407	0.01888	2	No	29	0.02337	0	x^(1/3)	0.01	Param.
Barium (mg/L)	GWC-4R	0.03779	0.0249	2	No	34	0.01687	0	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-5R	0.03084	0.01773	2	No	29	0.0174	0	ln(x)	0.01	Param.
Barium (mg/L)	GWC-6R	0.05498	0.03778	2	No	35	0.02085	0	No	0.01	Param.
Beryllium (mg/L)	GWC-1R	0.003	0.00013	0.004	No	29	0.001435	44.83	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-2R	0.003	0.00023	0.004	No	34	0.001341	67.65	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-3R	0.0011	0.0004	0.004	No	29	0.001093	24.14	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-4R	0.003	0.00011	0.004	No	34	0.001051	85.29	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-5R	0.003	0.00048	0.004	No	29	0.001267	24.14	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-1R	0.0005	0.00026	0.005	No	29	0.0001511	75.86	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-2R	0.0005	0.00016	0.005	No	34	0.00015	79.41	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-3R	0.0005	0.00021	0.005	No	29	0.0001545	58.62	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-4R	0.0005	0.00011	0.005	No	34	0.00009435	94.12	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-5R	0.00097	0.0005	0.005	No	29	0.0002849	27.59	No	0.01	NP (Cohens/xfrm)
Chromium (mg/L)	GWC-1R	0.005	0.0011	0.1	No	29	0.001902	41.38	No	0.01	NP (normality)
Chromium (mg/L)	GWC-2R	0.005	0.0017	0.1	No	34	0.001516	85.29	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-3R	0.0023	0.0011	0.1	No	29	0.001775	31.03	No	0.01	NP (normality)
Chromium (mg/L)	GWC-4R	0.005	0.0013	0.1	No	34	0.00153	82.35	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-5R	0.0028	0.0019	0.1	No	29	0.001147	17.24	No	0.01	NP (normality)
Chromium (mg/L)	GWC-6R	0.0028	0.0014	0.1	No	35	0.001671	31.43	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-1R	0.005	0.0008	0.035	No	29	0.00303	34.48	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-2R	0.02517	0.01526	0.035	No	34	0.01181	2.941	No	0.01	Param.
Cobalt (mg/L)	GWC-3R	0.0074	0.0041	0.035	No	29	0.002147	68.97	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-4R	0.004654	0.002487	0.035	No	34	0.002029	26.47	No	0.01	Param.
Cobalt (mg/L)	GWC-5R	0.005	0.00077	0.035	No	29	0.001966	75.86	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-6R	0.005	0.005	0.035	No	35	0.0006085	97.14	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GWC-1R	0.9498	0.5466	6.92	No	16	0.331	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2R	1.423	0.6662	6.92	No	16	0.5815	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-3R	1.003	0.2829	6.92	No	16	0.6621	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-4R	0.5824	0.2291	6.92	No	16	0.2715	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-5R	0.9013	0.283	6.92	No	16	0.4615	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-6R	1.046	0.452	6.92	No	16	0.5389	0	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GWC-1R	0.1	0.06	4	No	19	0.02028	78.95	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-2R	0.58	0.08	4	No	19	0.1149	73.68	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-3R	0.15	0.07	4	No	19	0.1182	36.84	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-4R	0.11	0.08	4	No	19	0.02216	73.68	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-5R	0.11	0.053	4	No	19	0.09221	47.37	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-6R	0.28	0.07	4	No	19	0.04915	73.68	No	0.01	NP (normality)
Lead (mg/L)	GWC-1R	0.001	0.000067	0.0013	No	29	0.0002425	93.1	No	0.01	NP (NDs)
Lead (mg/L)	GWC-2R	0.001	0.0001	0.0013	No	34	0.0003798	79.41	No	0.01	NP (NDs)
Lead (mg/L)	GWC-3R	0.001	0.00015	0.0013	No	29	0.0003968	75.86	No	0.01	NP (NDs)
Lead (mg/L)	GWC-4R	0.001	0.001	0.0013	No	34	0.0001645	97.06	No	0.01	NP (NDs)
Lead (mg/L)	GWC-5R	0.001	0.00019	0.0013	No	29	0.0003785	79.31	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-1R	0.0024	0.0013	0.03	No	17	0.01117	17.65	No	0.01	NP (normality)
Lithium (mg/L)	GWC-2R	0.0053	0.0035	0.03	No	17	0.01019	17.65	No	0.01	NP (normality)
Lithium (mg/L)	GWC-3R	0.03	0.0012	0.03	No	17	0.01268	76.47	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-4R	0.03	0.0011	0.03	No	17	0.01357	70.59	No	0.01	NP (normality)
Lithium (mg/L)	GWC-5R	0.03	0.0014	0.03	No	17	0.01466	47.06	No	0.01	NP (normality)
Lithium (mg/L)	GWC-6R	0.03	0.0018	0.03	No	17	0.01204	23.53	No	0.01	NP (normality)
Mercury (mg/L)	GWC-1R	0.0002	0.000059	0.002	No	29	0.00002618	96.55	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-2R	0.0002	0.0002	0.002	No	34	0.00002212	97.06	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-3R	0.0002	0.000064	0.002	No	29	0.0000615	89.66	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-4R	0.0002	0.00014	0.002	No	34	0.00002771	91.18	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-5R	0.0002	0.00006	0.002	No	29	0.000026	96.55	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-6R	0.0002	0.0002	0.002	No	35	0.00003848	94.29	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-1R	0.0066	0.0039	0.05	No	29	0.006342	44.83	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWC-2R	0.005	0.0032	0.05	No	34	0.001197	47.06	No	0.01	NP (normality)

Confidence Interval Summary Table - All Results (No Significant)

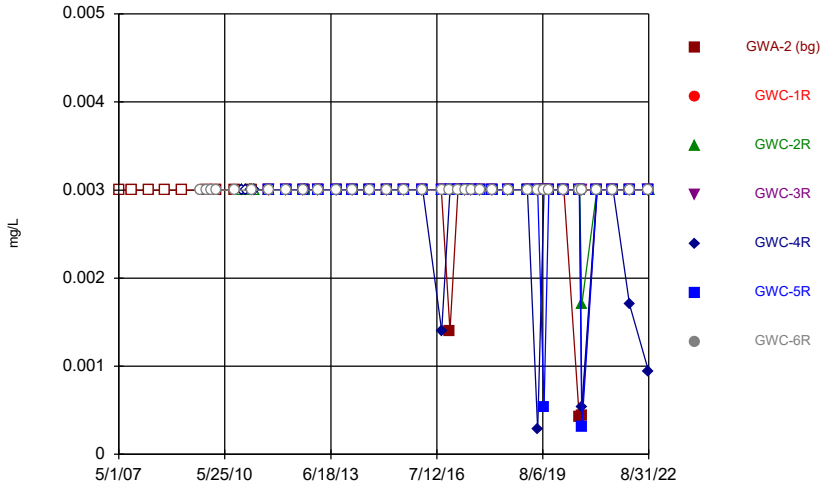
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/21/2022, 4:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	Transform	Alpha	Method
Selenium (mg/L)	GWC-3R	0.0057	0.0045	0.05	No	29	0.003261	37.93	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWC-4R	0.0054	0.0041	0.05	No	34	0.003502	23.53	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWC-5R	0.02517	0.01716	0.05	No	29	0.008738	3.448	No	0.01	Param.
Selenium (mg/L)	GWC-6R	0.005	0.0037	0.05	No	35	0.001251	54.29	No	0.01	NP (normality)
Thallium (mg/L)	GWC-2R	0.001	0.001	0.002	No	32	0.0001644	96.88	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-5R	0.001	0.000053	0.002	No	28	0.000179	96.43	No	0.01	NP (NDs)

FIGURE A.

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Time Series



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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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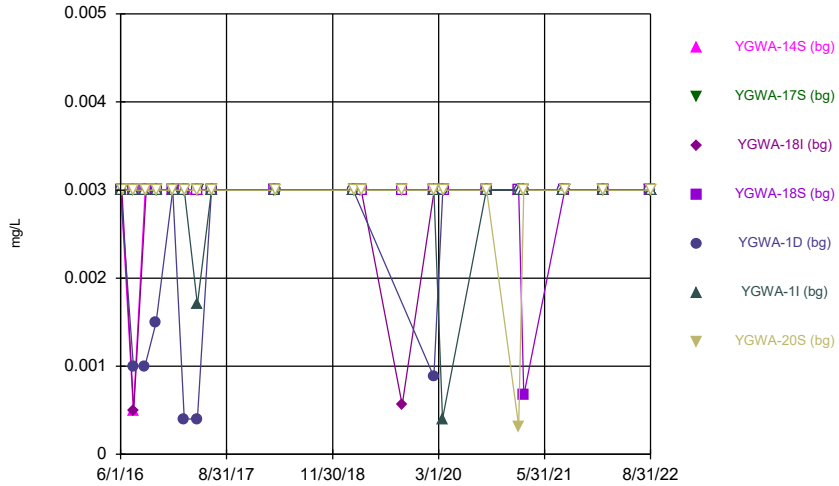

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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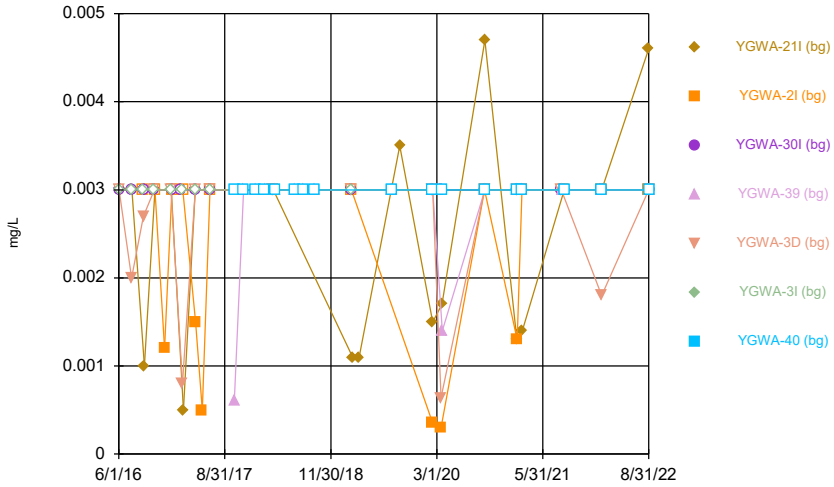

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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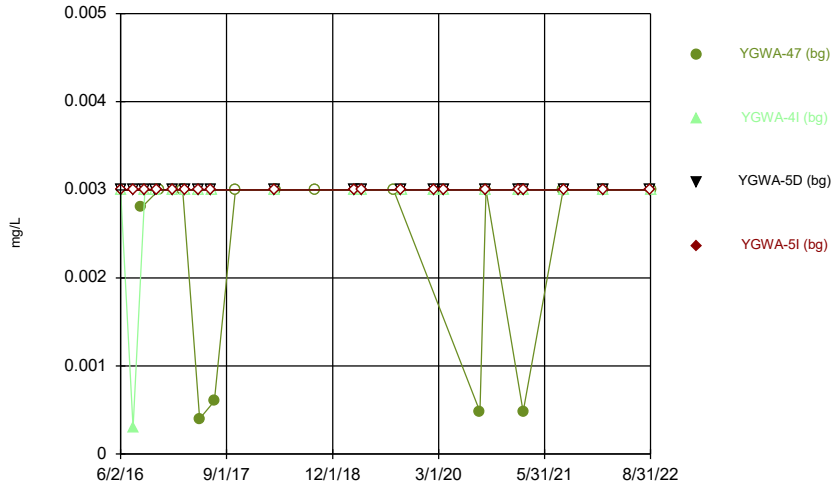

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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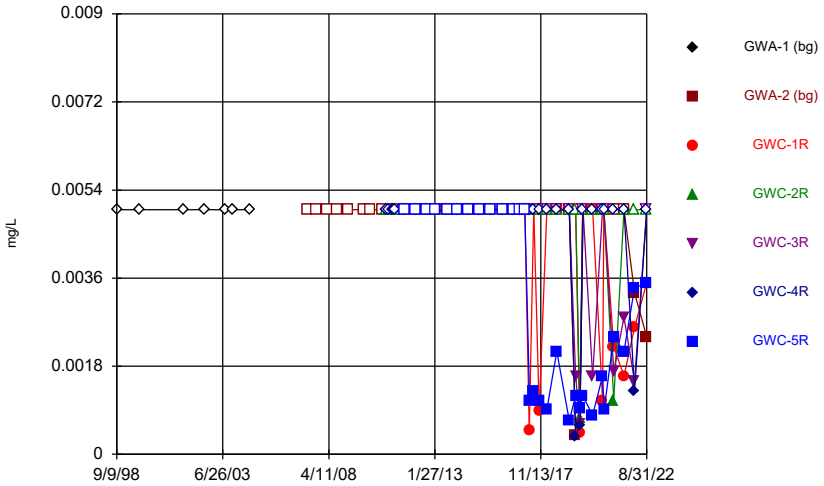

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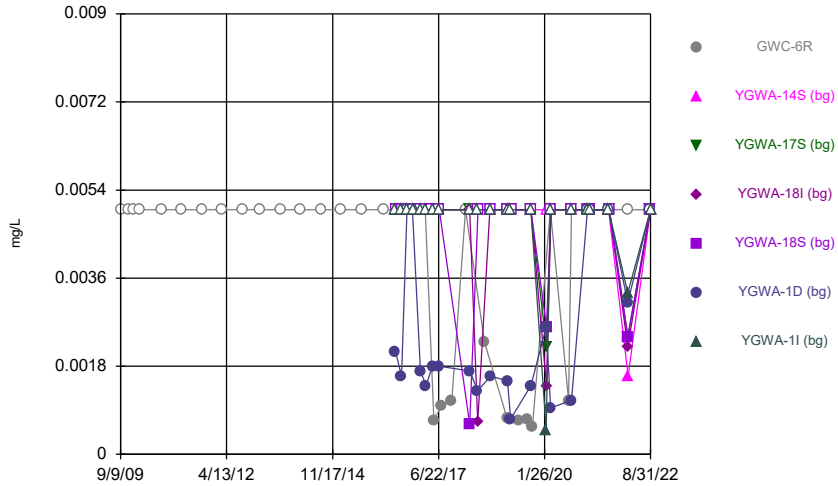

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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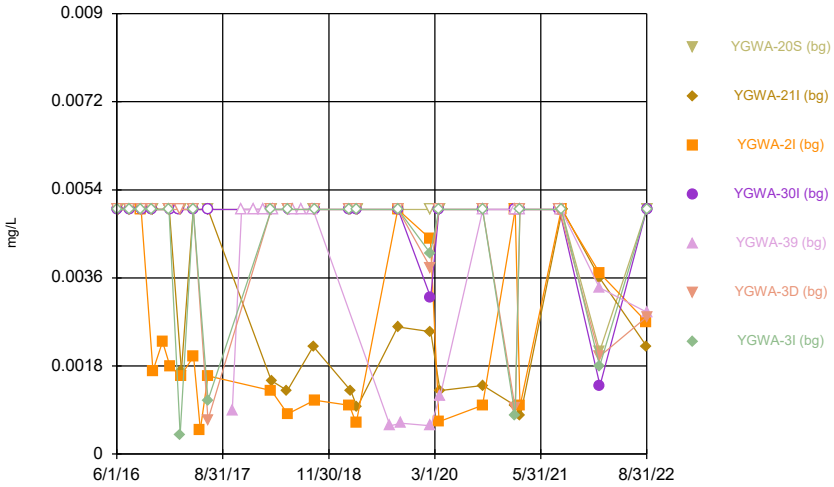

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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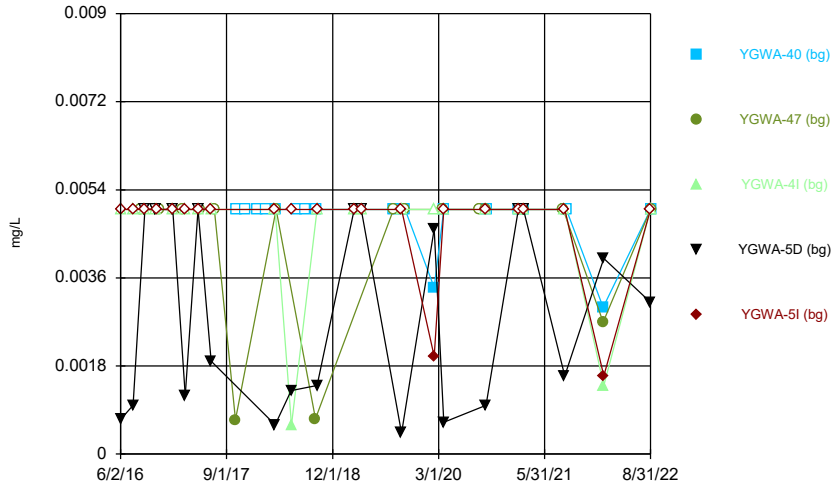

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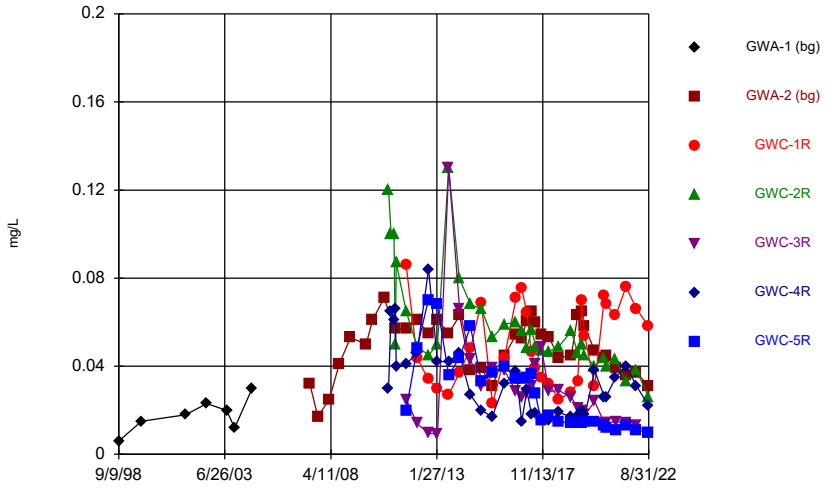
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Time Series



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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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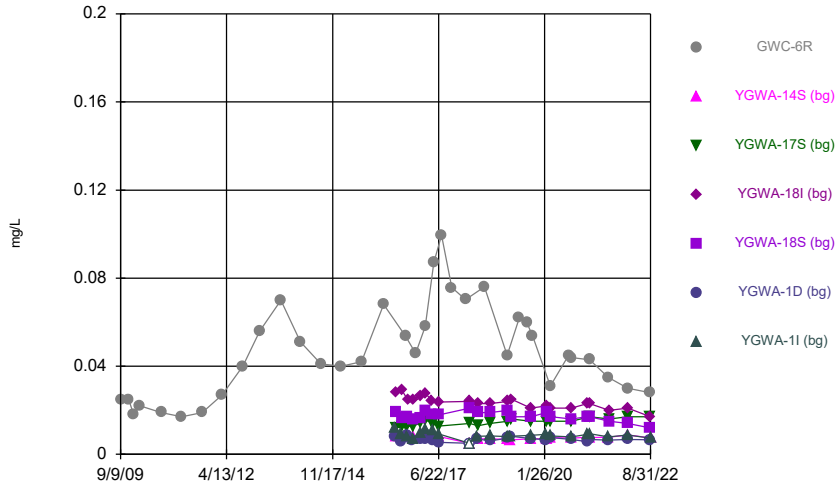

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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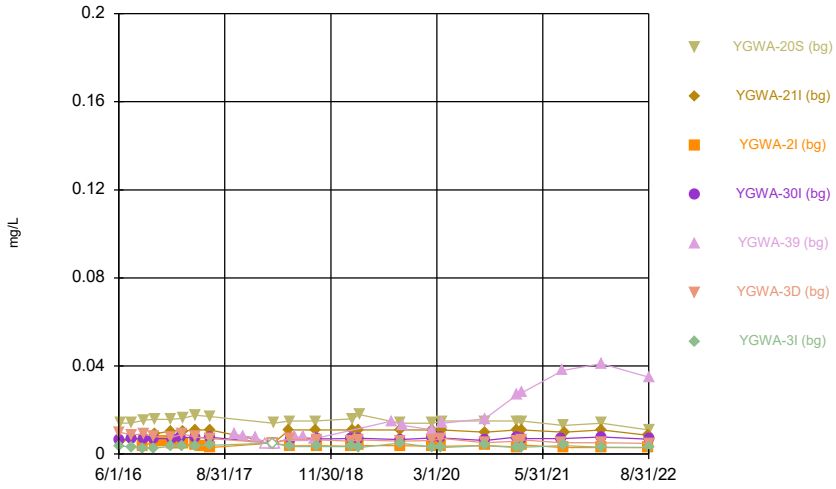

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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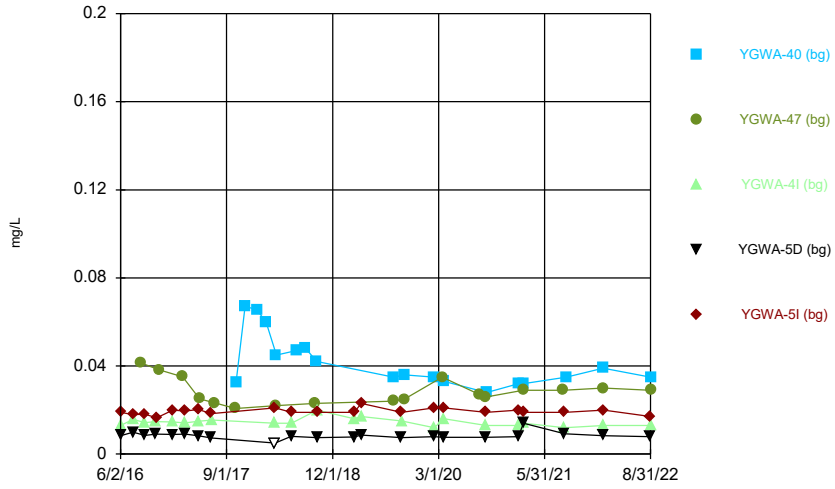

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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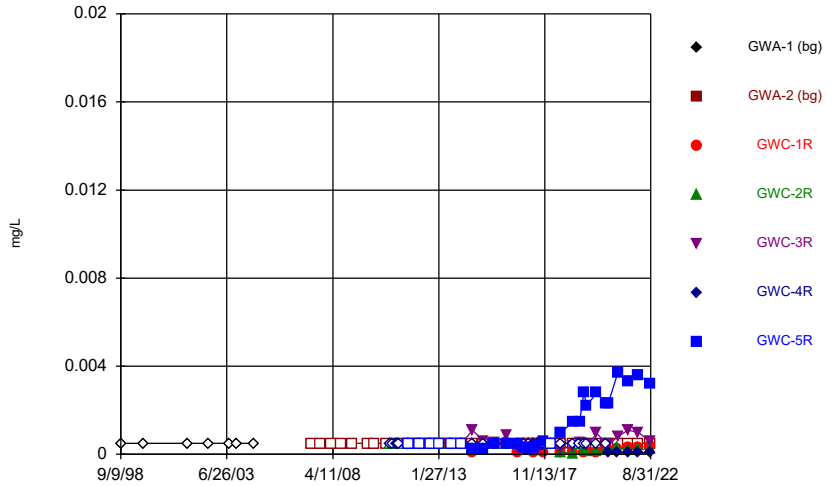

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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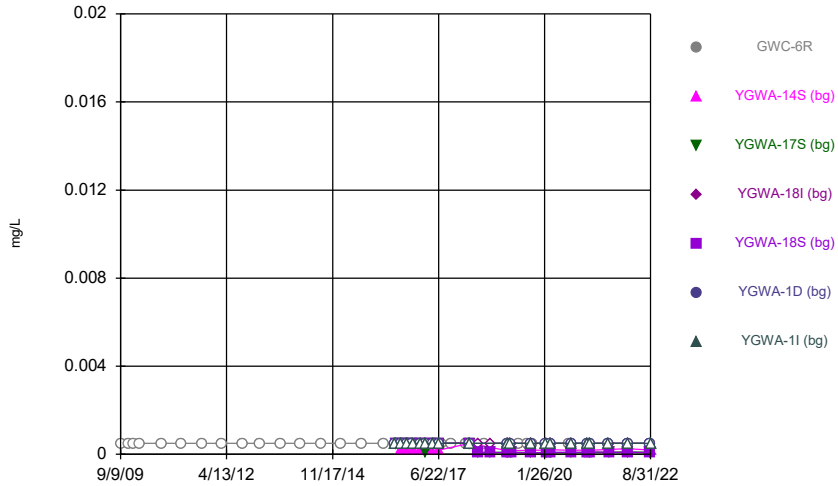

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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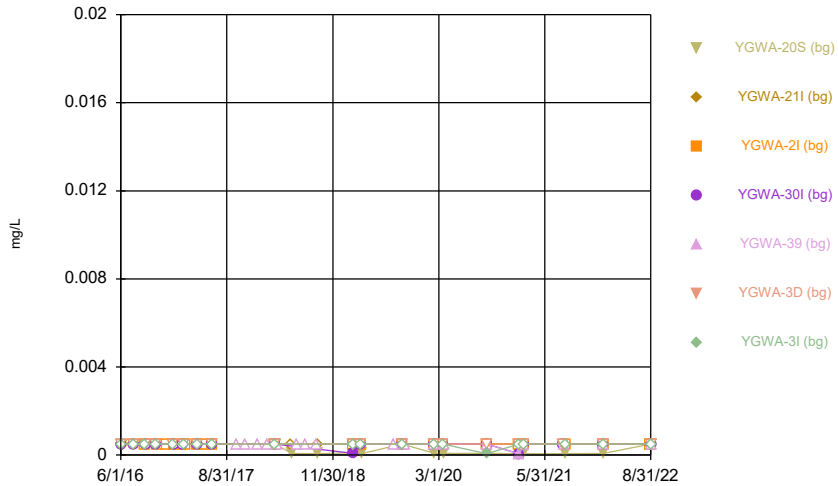

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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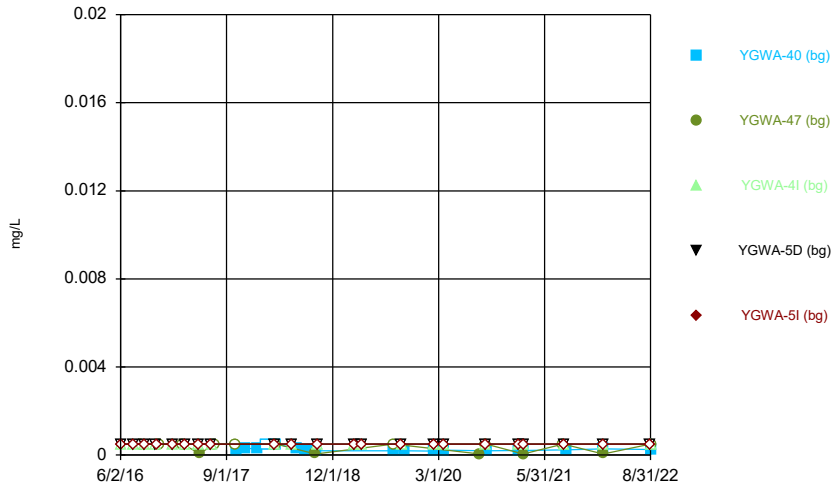

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
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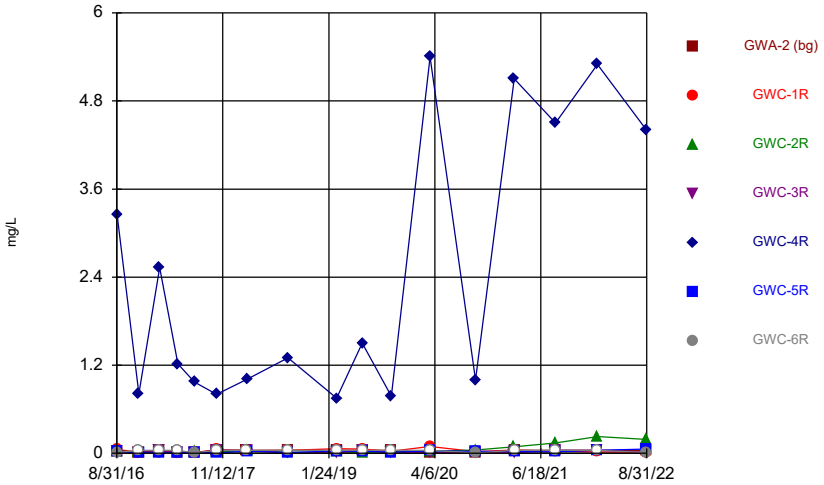
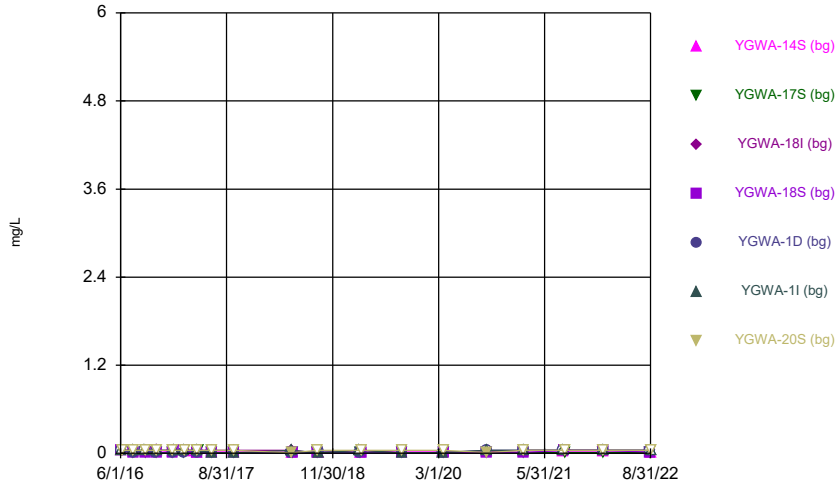


Constituent: Boron Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

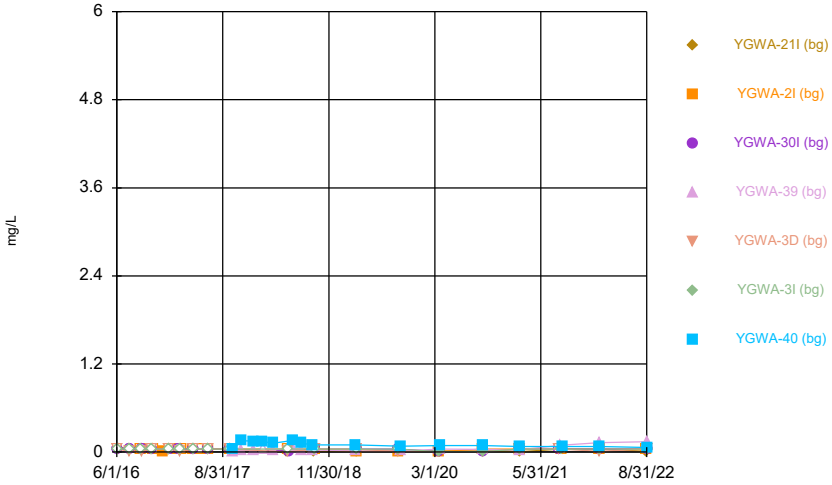
Time Series



Constituent: Boron Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

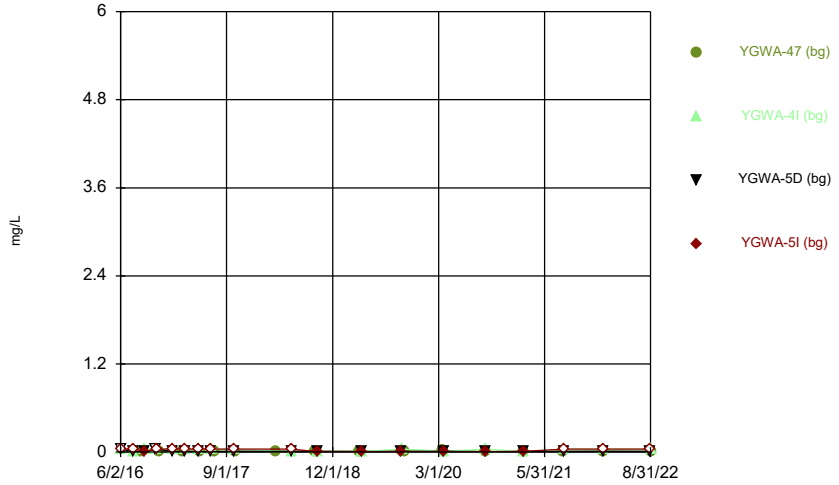
Time Series



Constituent: Boron Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

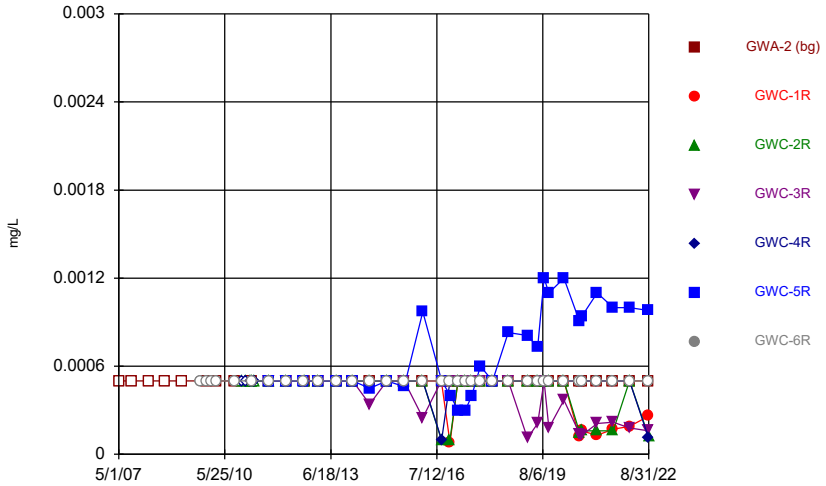
Time Series



Constituent: Boron Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

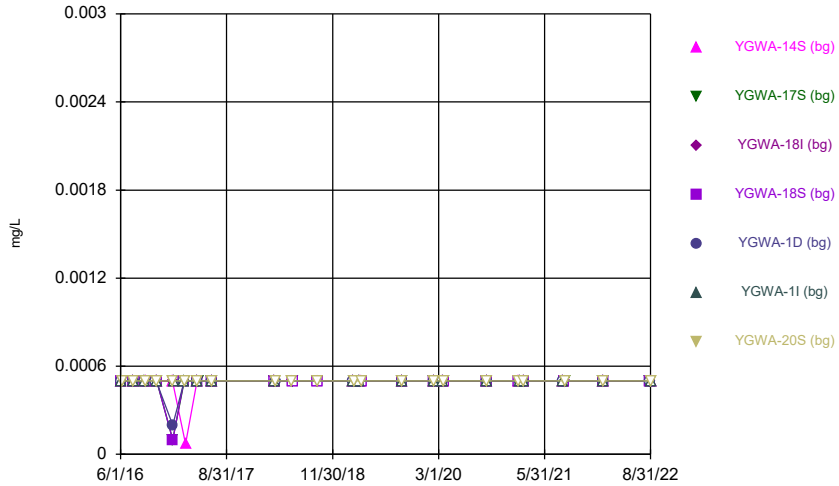
Time Series



Constituent: Cadmium Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

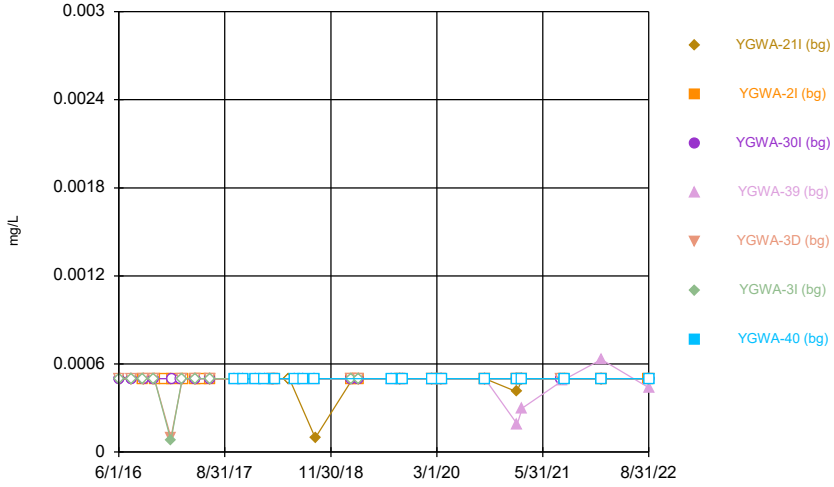
Time Series



Constituent: Cadmium Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

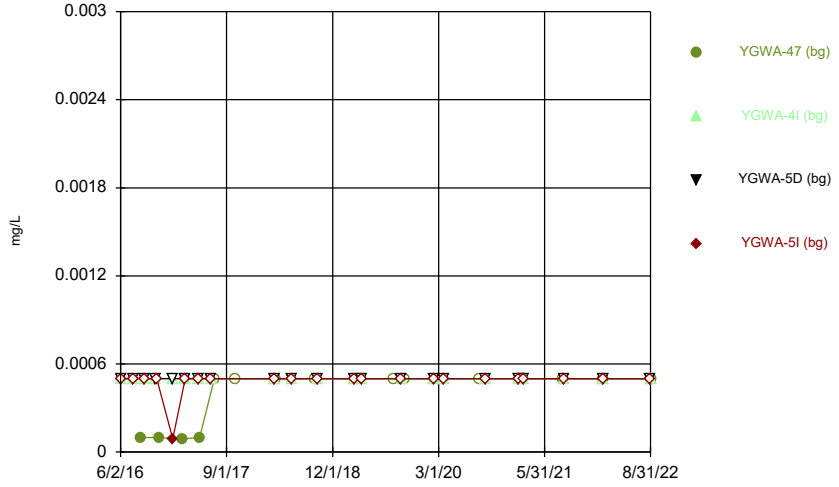
Time Series



Constituent: Cadmium Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Time Series



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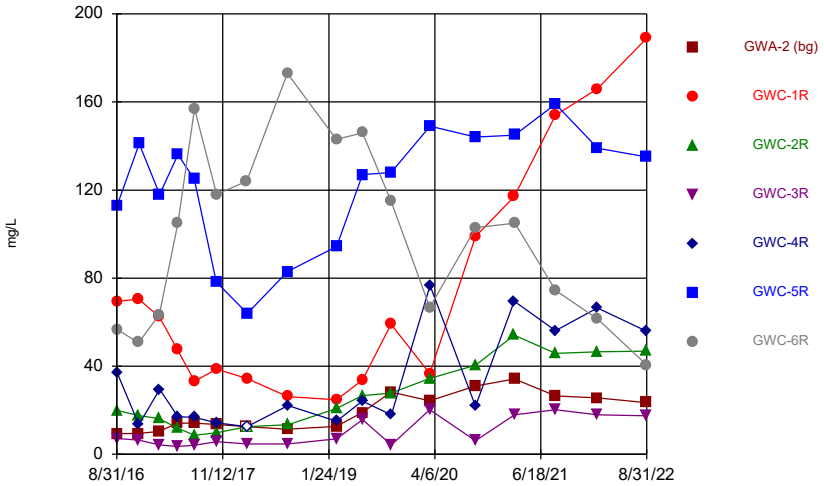
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

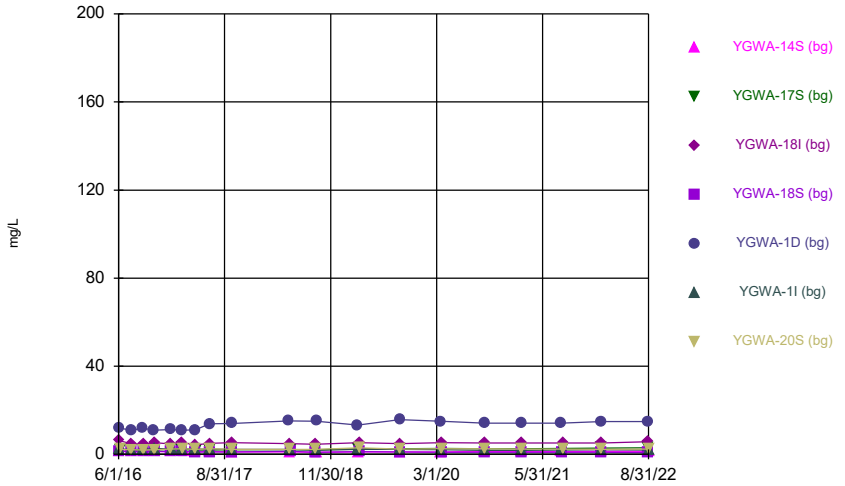
Time Series



Constituent: Calcium Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

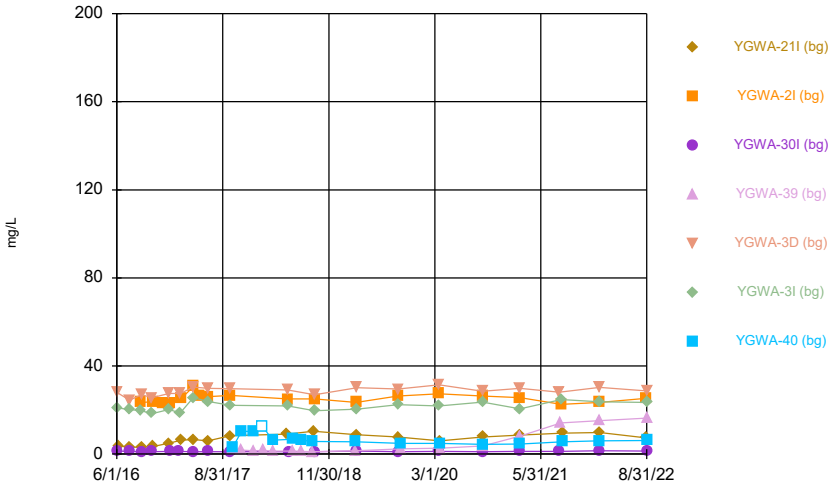
Time Series



Constituent: Calcium Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

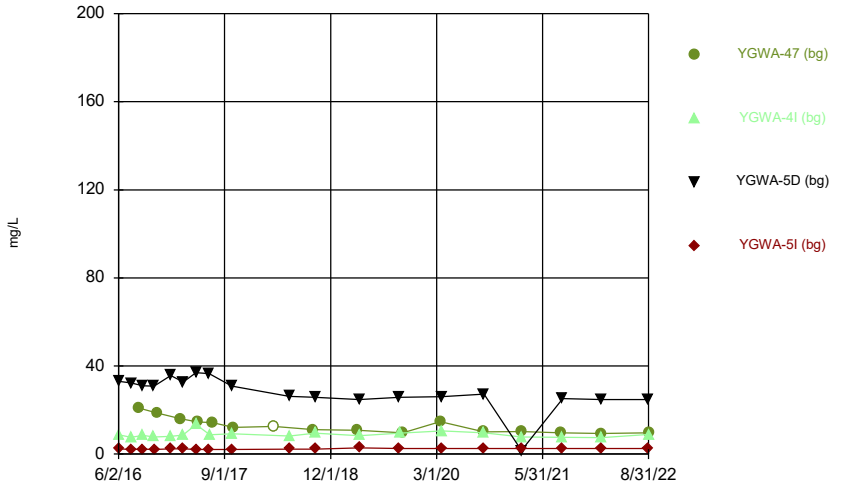
Time Series



Constituent: Calcium Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

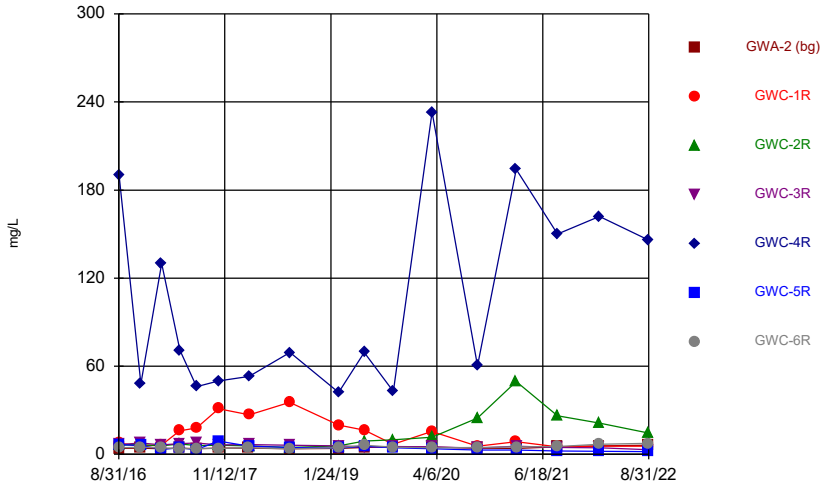
Time Series



Constituent: Calcium Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

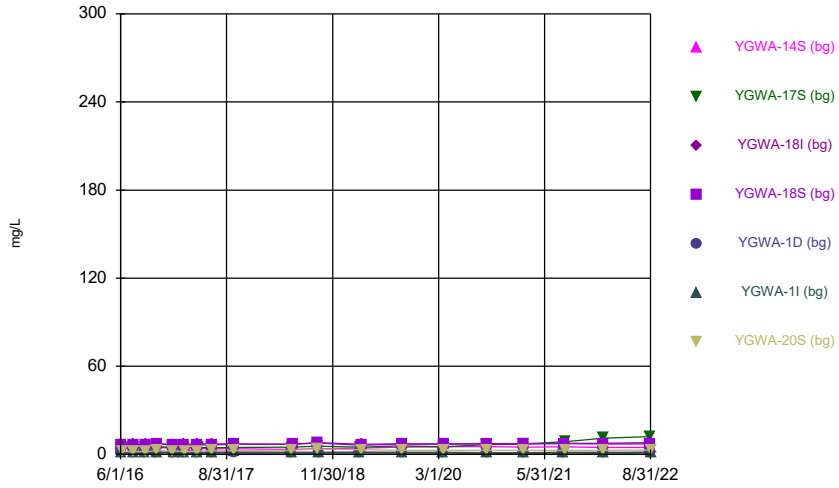
Time Series



Constituent: Chloride Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

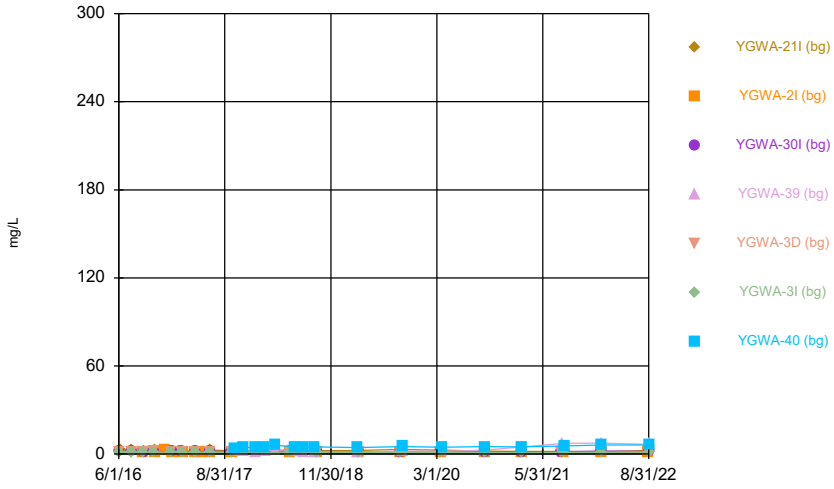
Time Series



Constituent: Chloride Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

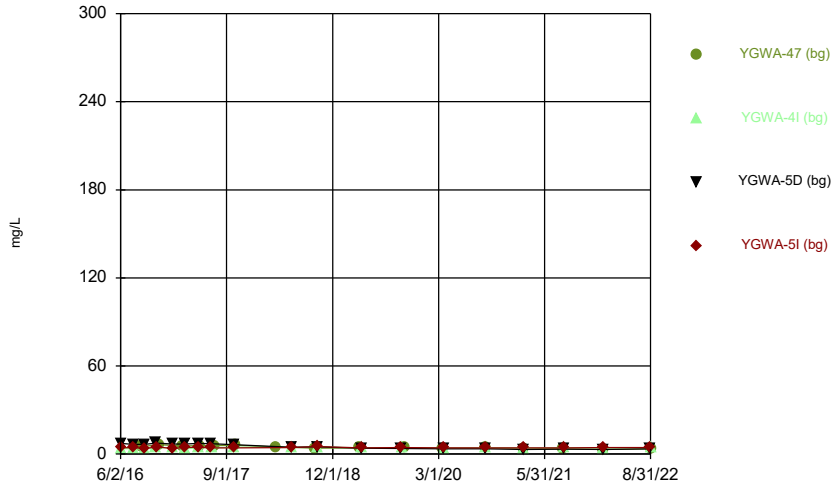
Time Series



Constituent: Chloride Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

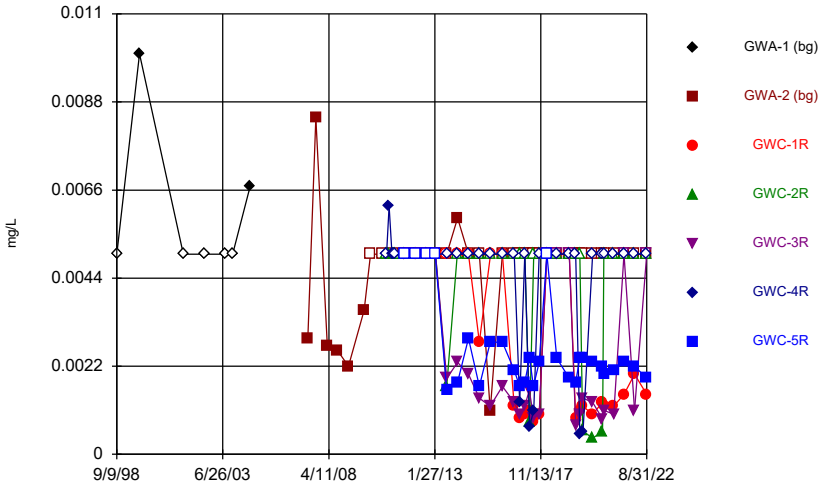
Time Series



Constituent: Chloride Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

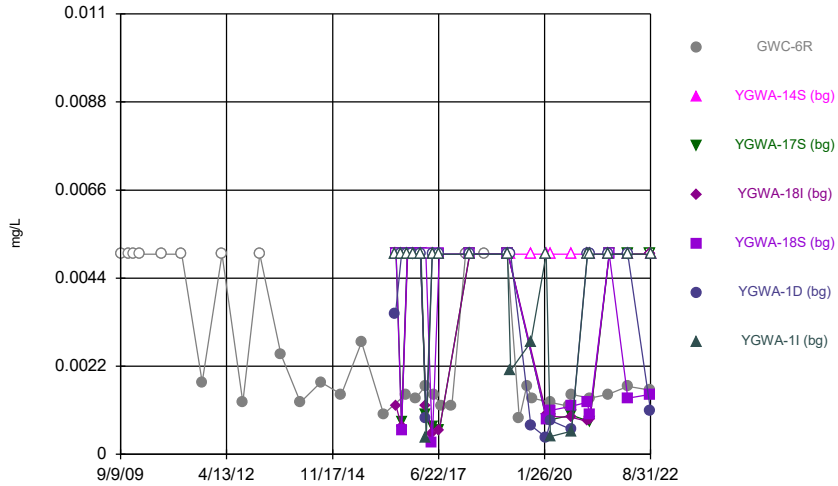
Time Series



Constituent: Chromium Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

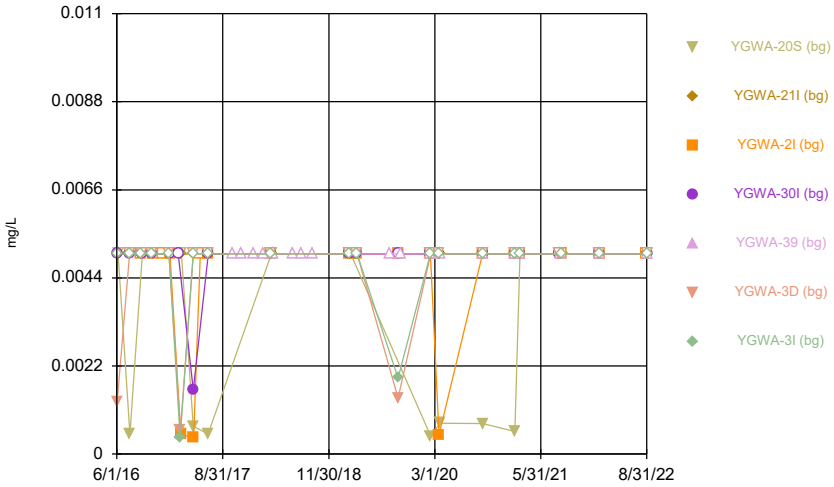
Time Series



Constituent: Chromium Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

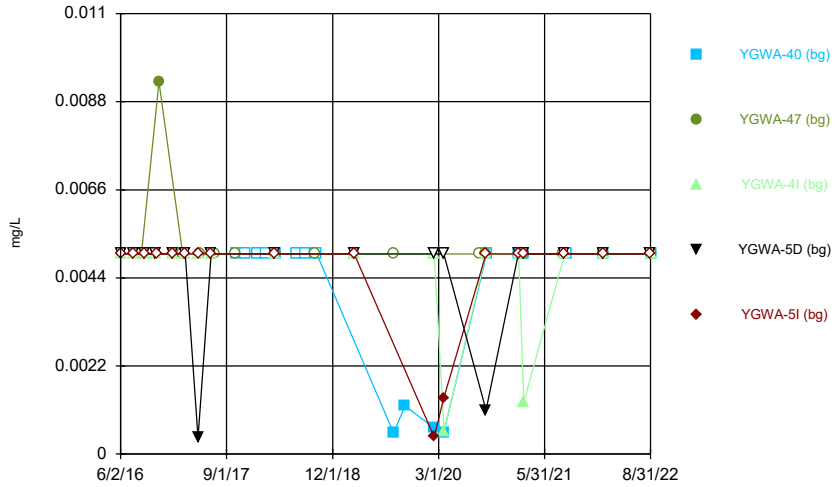
Time Series



Constituent: Chromium Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

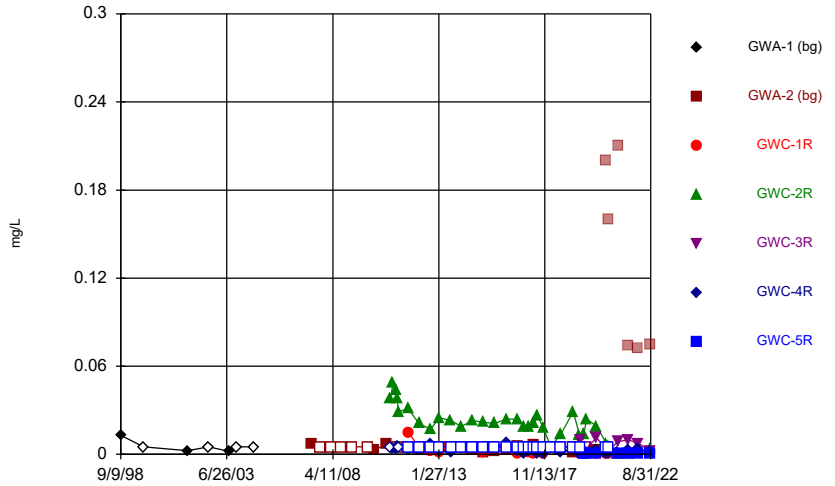
Time Series



Constituent: Chromium Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

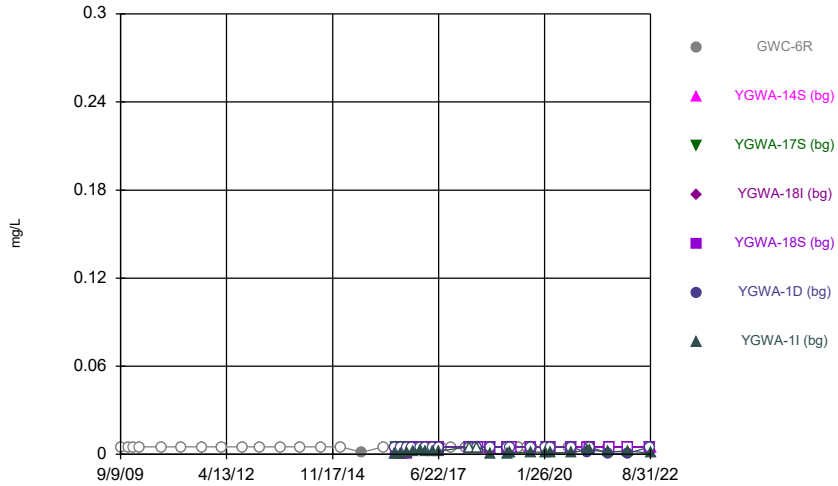
Time Series



Constituent: Cobalt Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

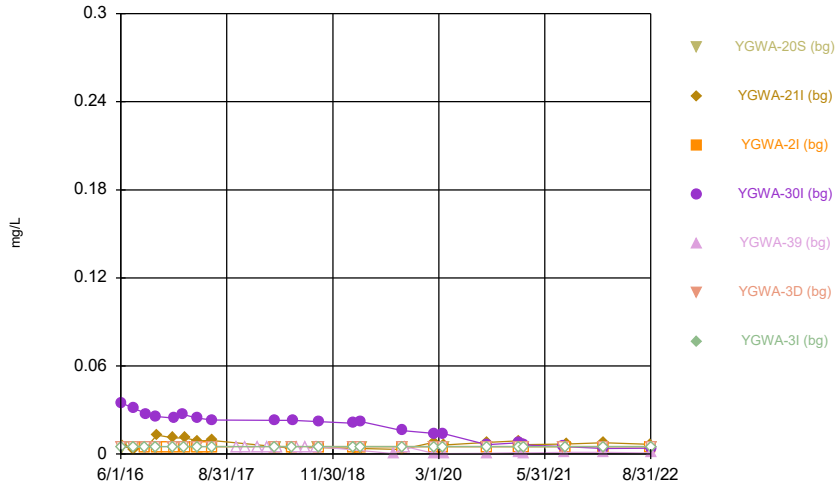
Time Series



Constituent: Cobalt Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

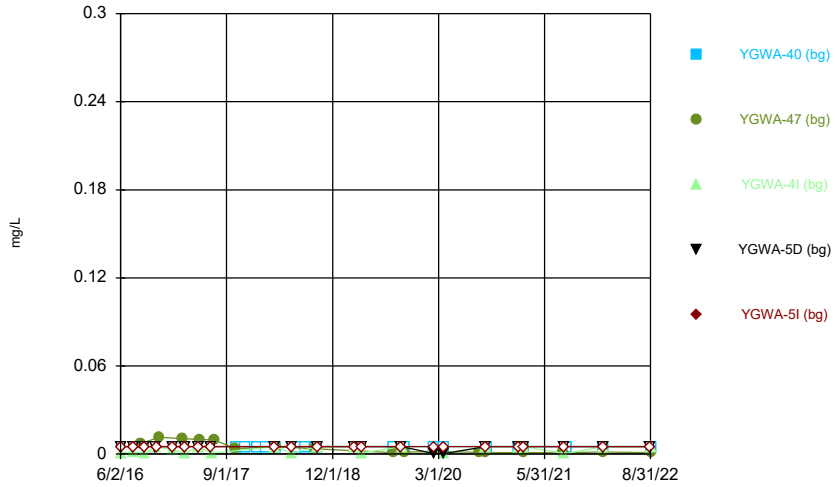
Time Series



Constituent: Cobalt Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

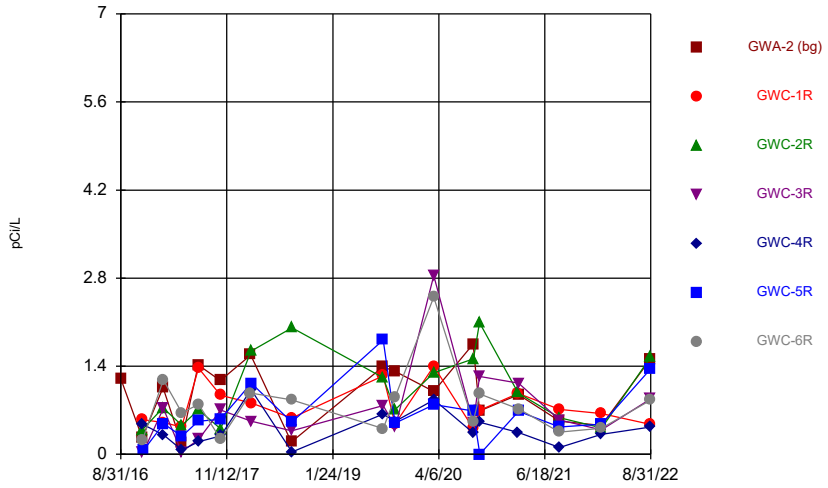
Time Series



Constituent: Cobalt Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

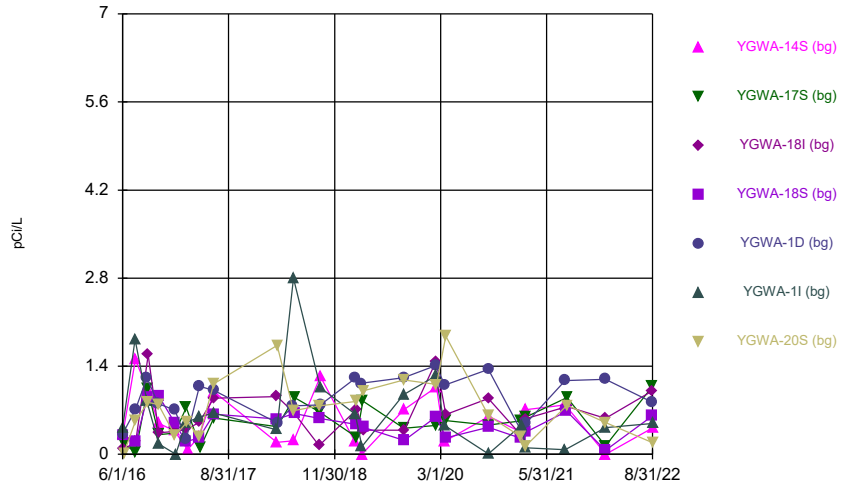
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

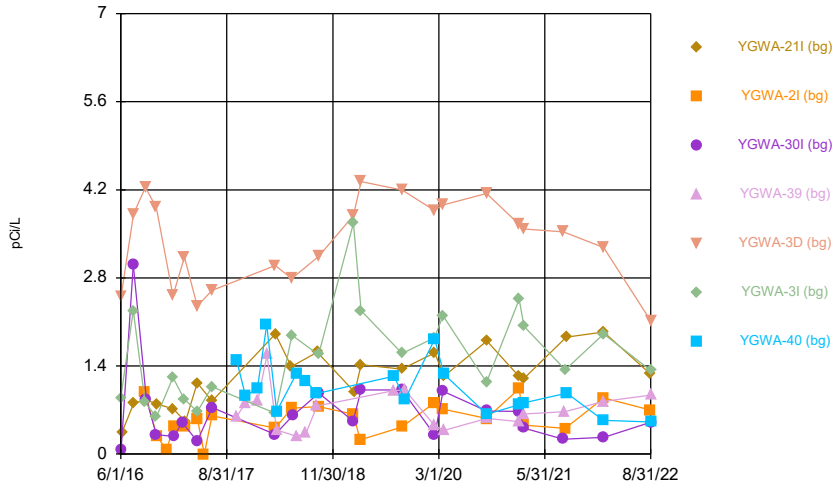
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

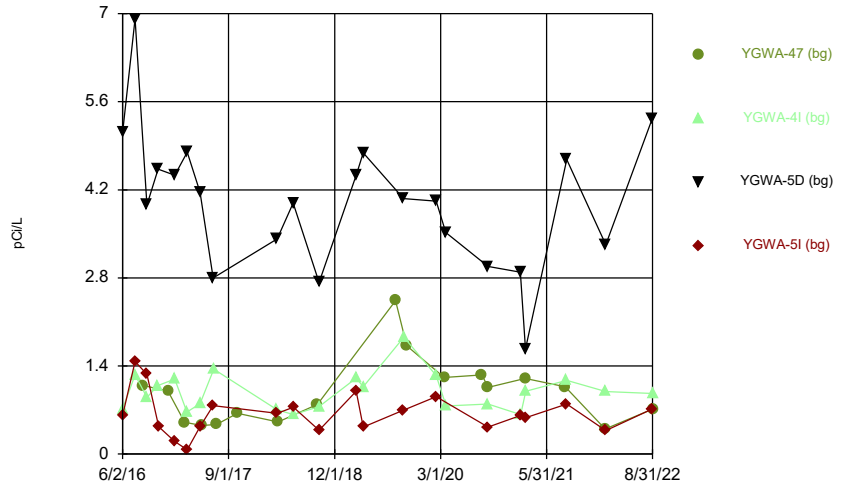
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

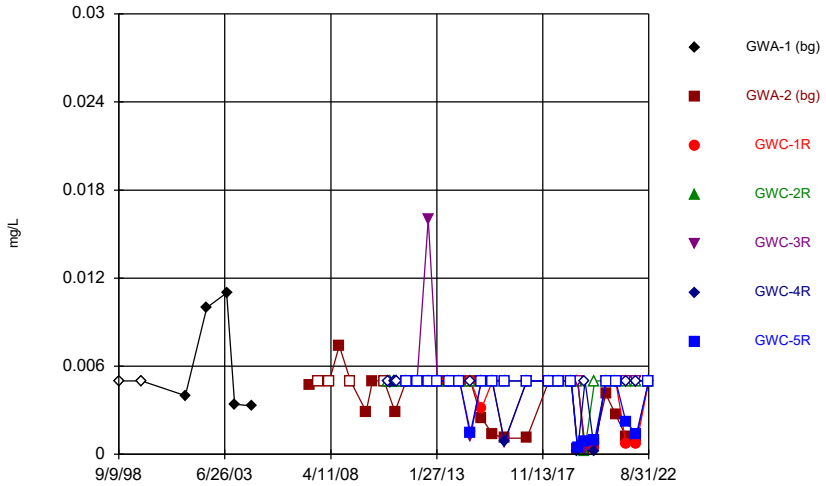
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

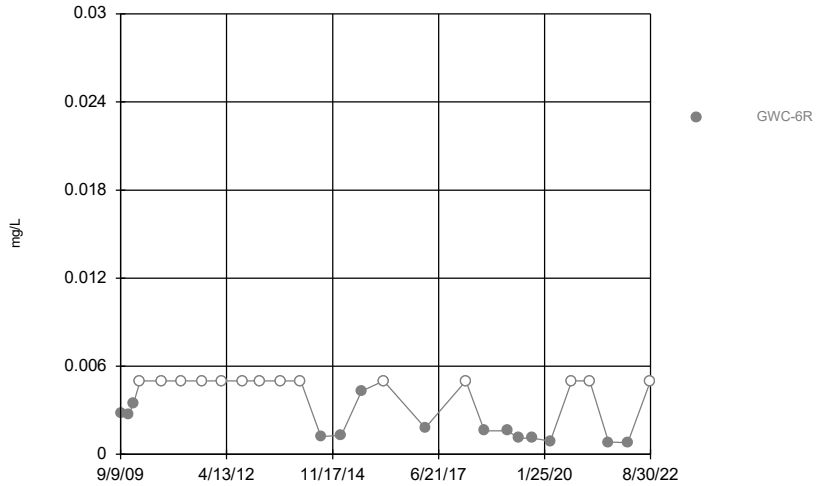
Time Series



Constituent: Copper Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

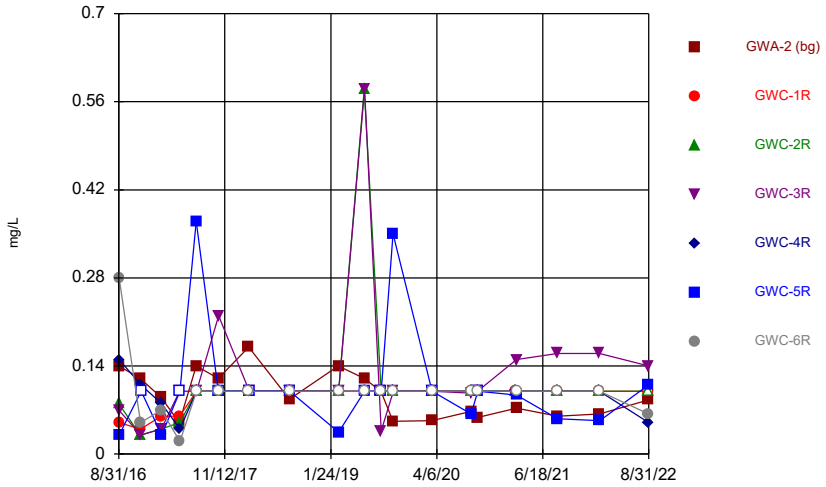
Time Series



Constituent: Copper Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

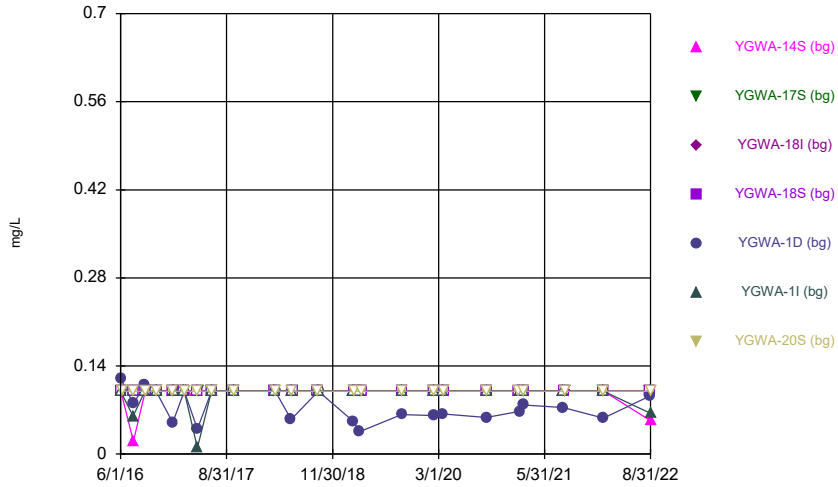
Time Series



Constituent: Fluoride Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

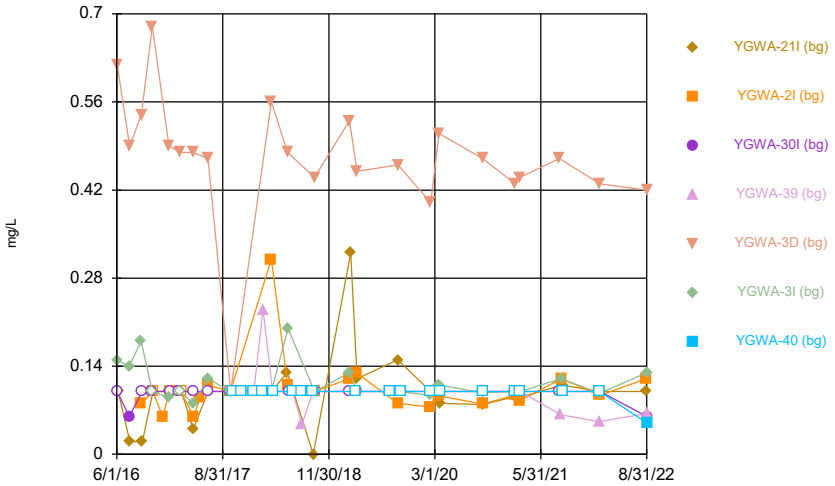
Time Series



Constituent: Fluoride Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

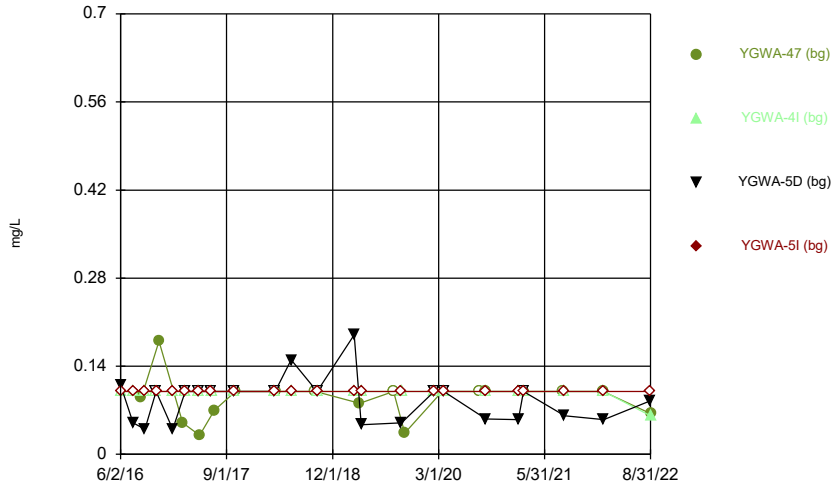
Time Series



Constituent: Fluoride Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

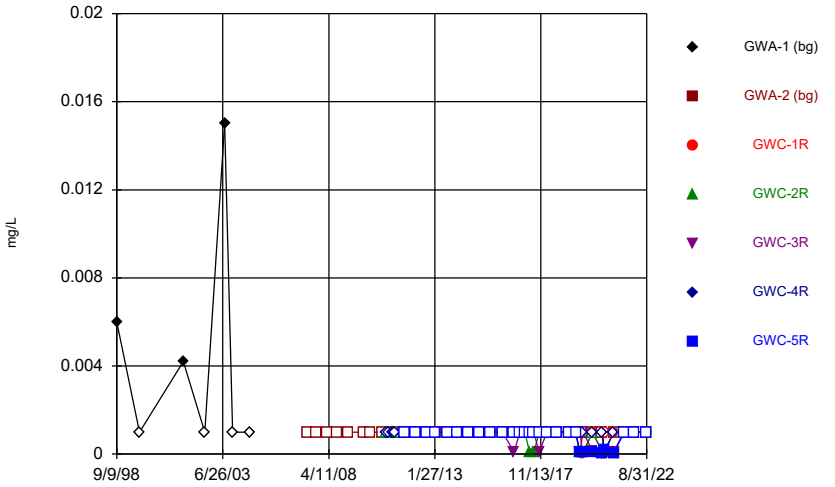
Time Series



Constituent: Fluoride Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

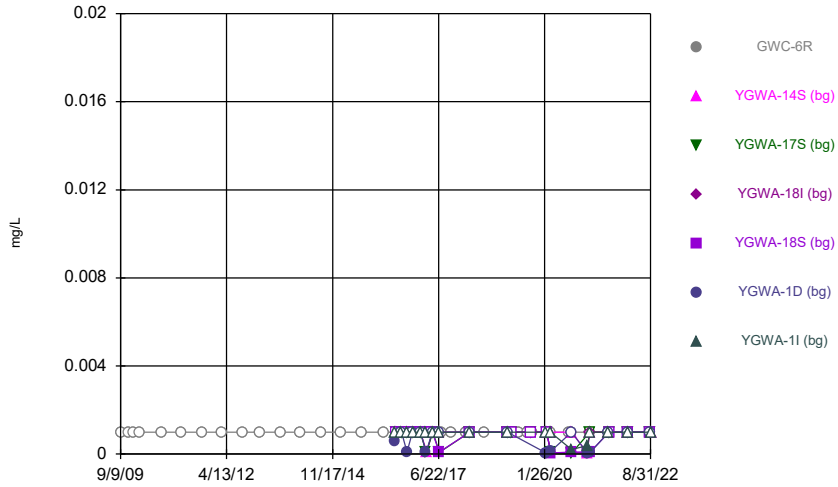
Time Series



Constituent: Lead Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

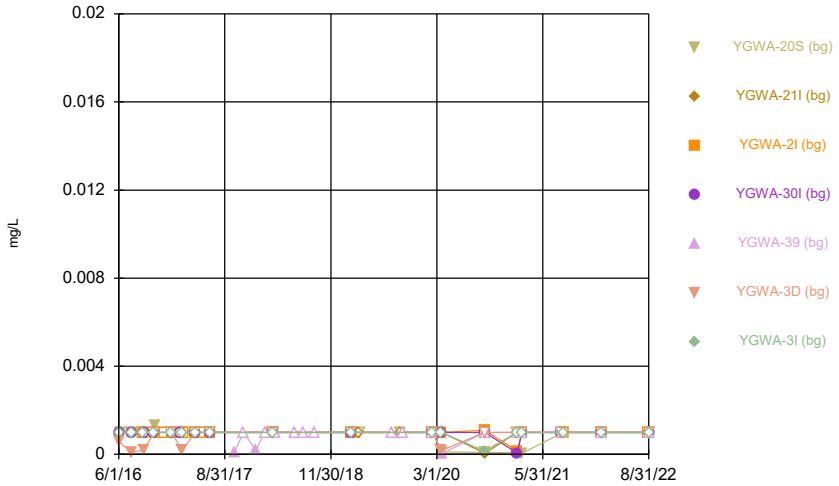
Time Series



Constituent: Lead Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

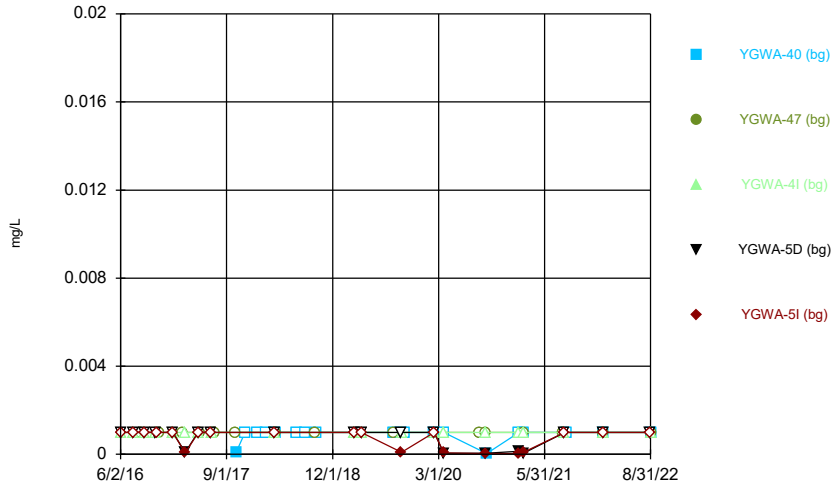
Time Series



Constituent: Lead Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

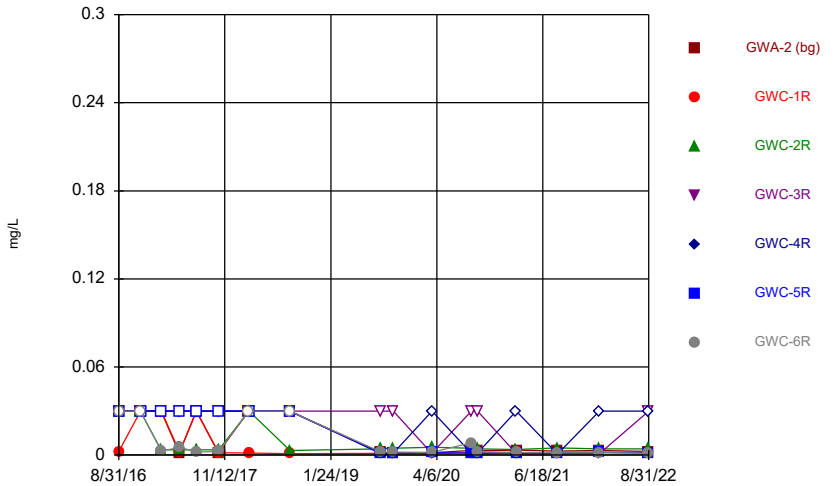
Time Series



Constituent: Lead Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

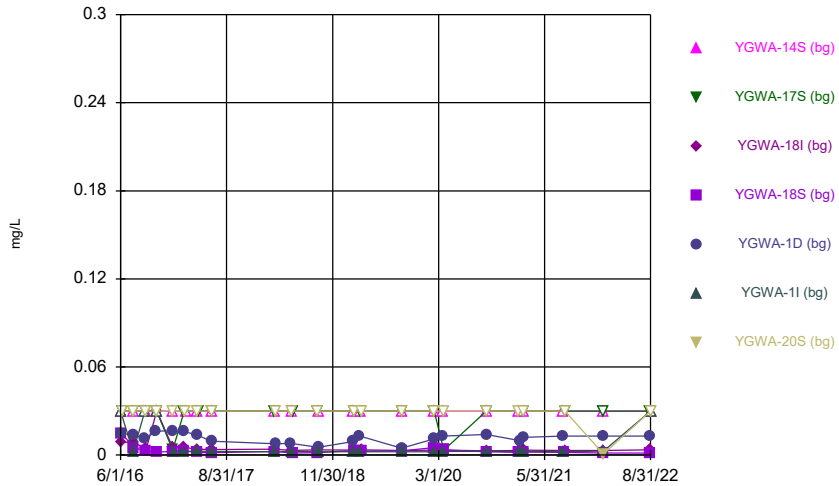
Time Series



Constituent: Lithium Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

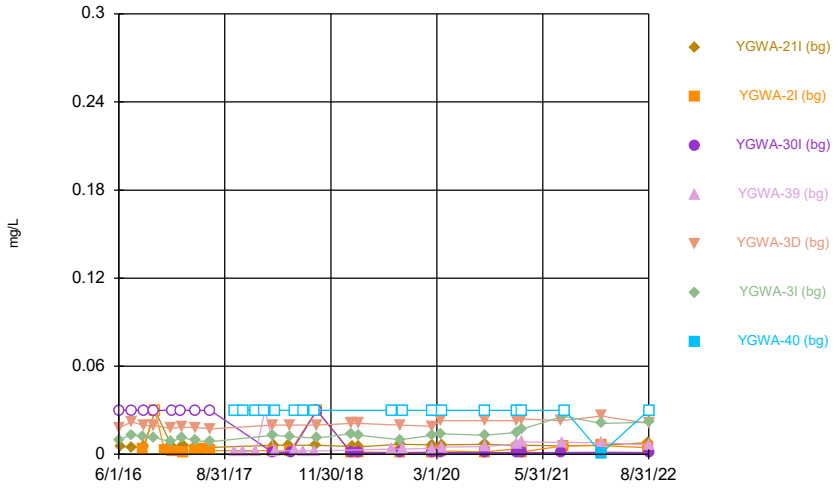
Time Series



Constituent: Lithium Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

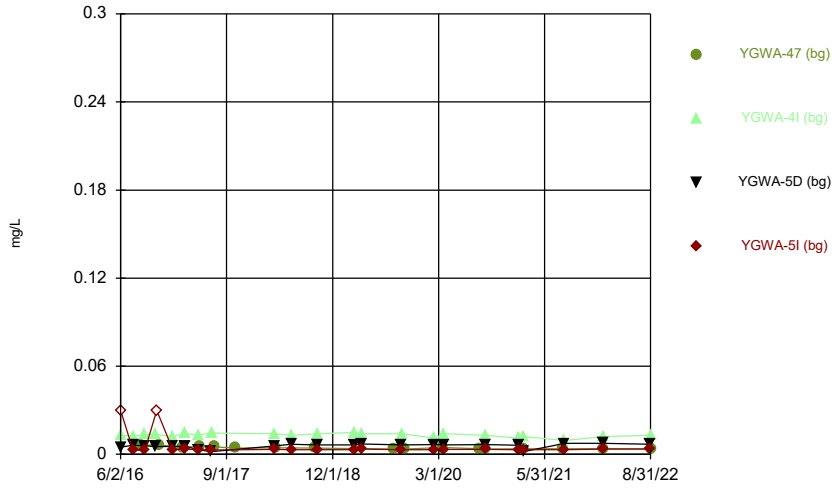
Time Series



Constituent: Lithium Analysis Run 10/21/2022 2:53 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

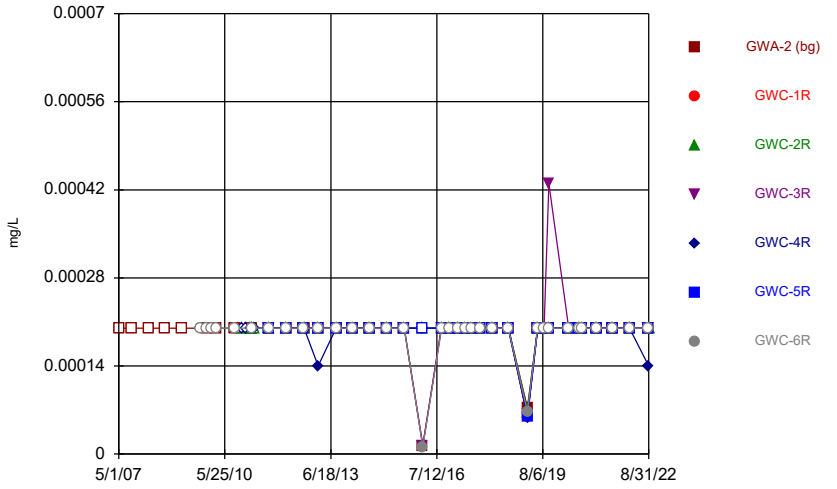
Time Series



Constituent: Lithium Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

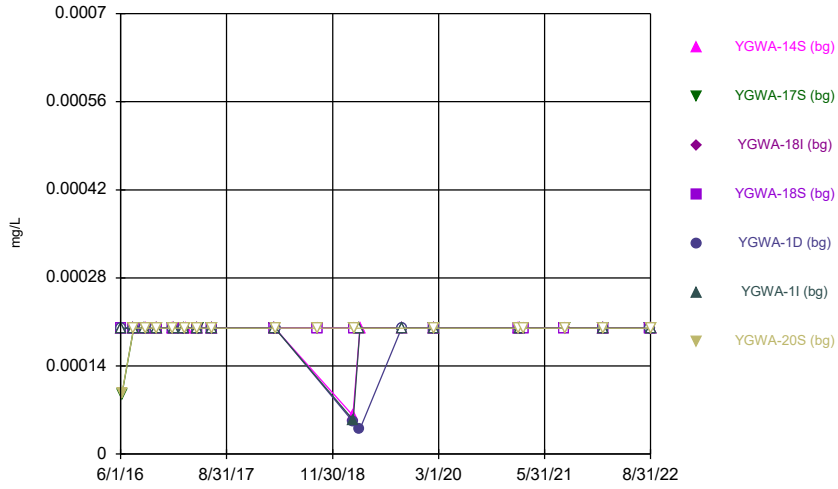
Time Series



Constituent: Mercury Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

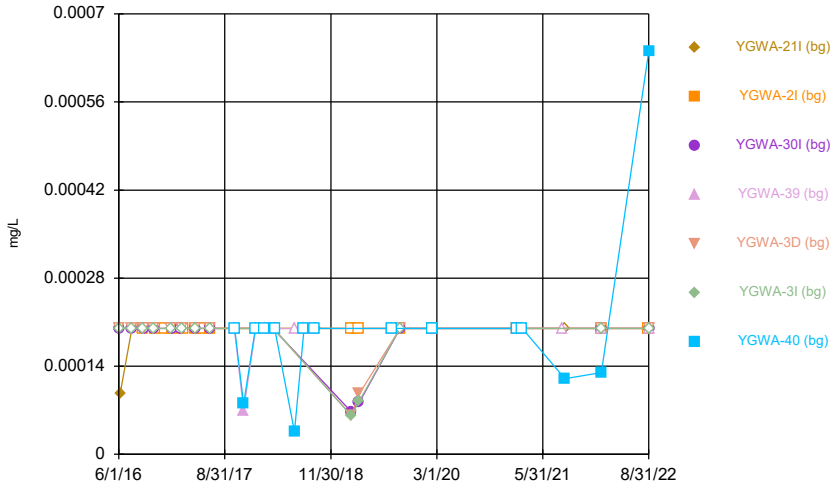
Time Series



Constituent: Mercury Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

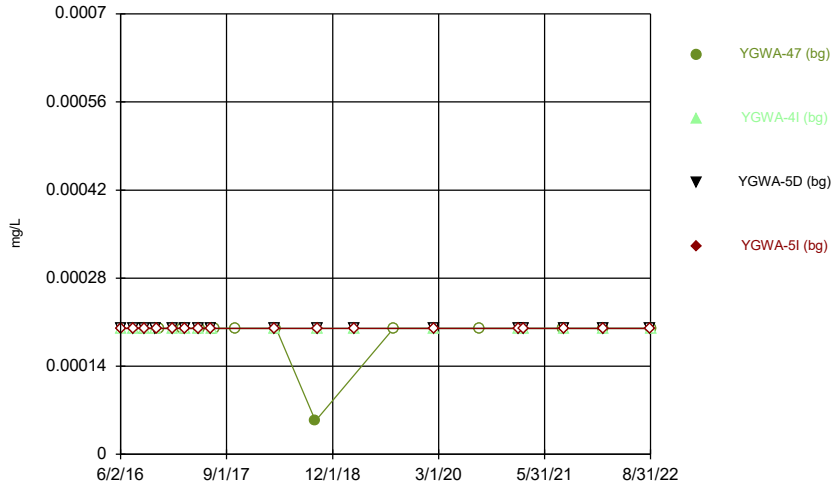
Time Series



Constituent: Mercury Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

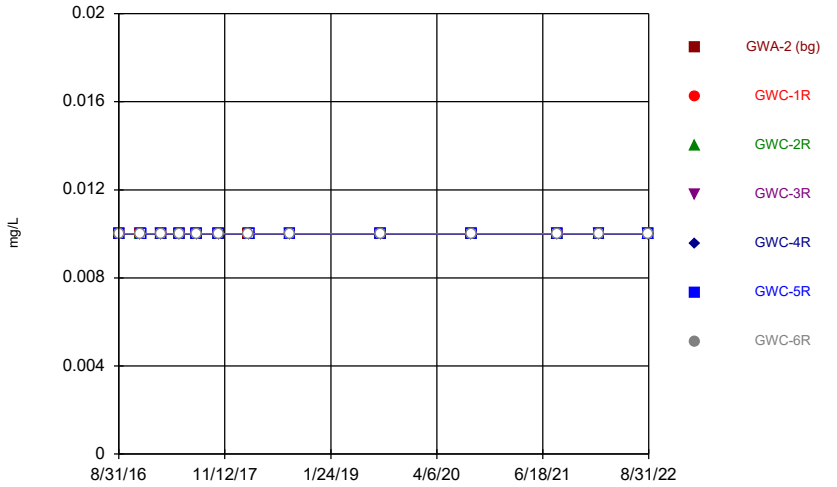
Time Series



Constituent: Mercury Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

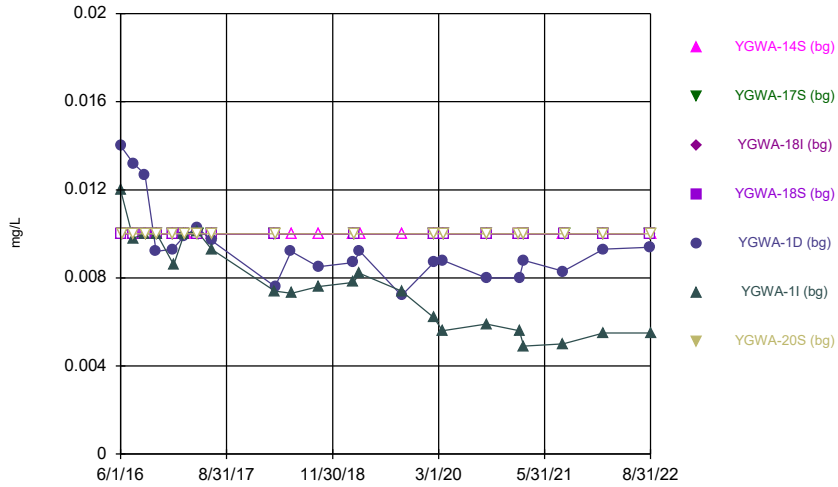
Time Series



Constituent: Molybdenum Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

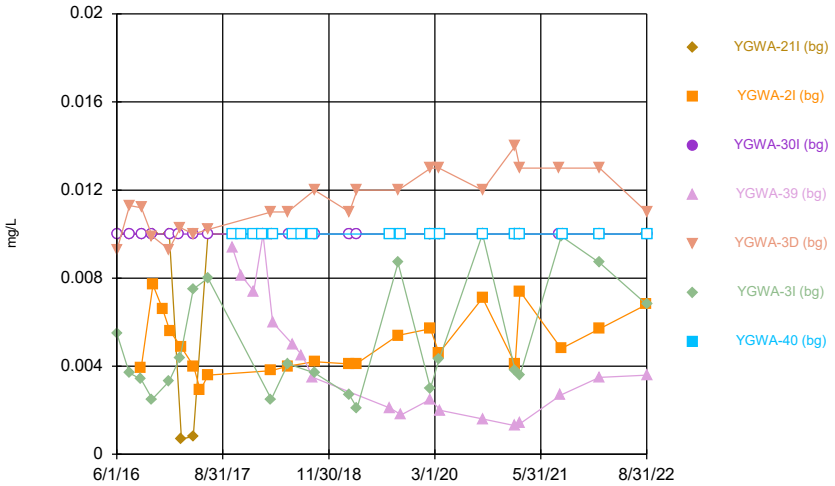
Time Series



Constituent: Molybdenum Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

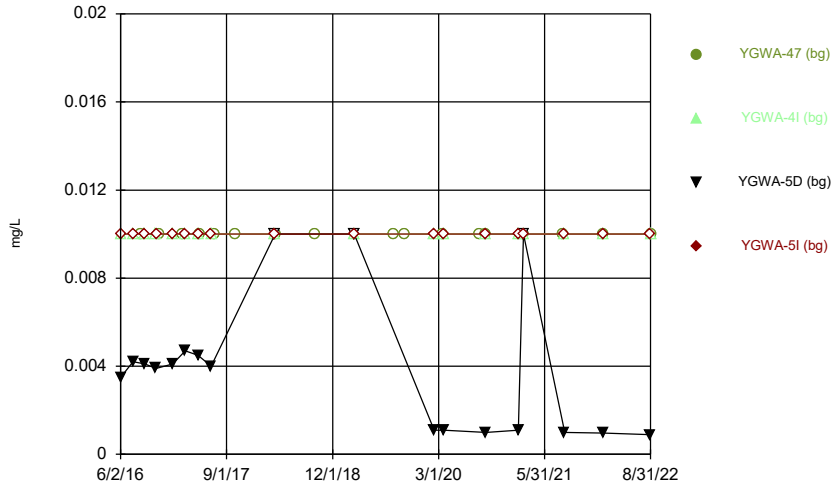
Time Series



Constituent: Molybdenum Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

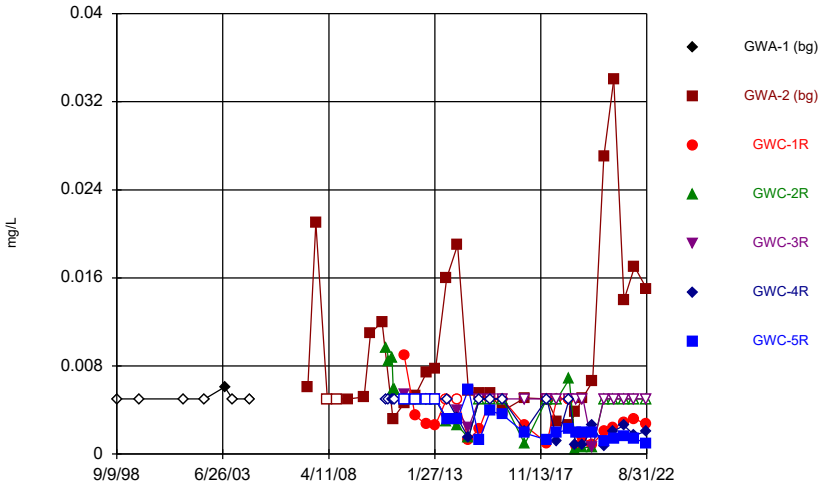
Time Series



Constituent: Molybdenum Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

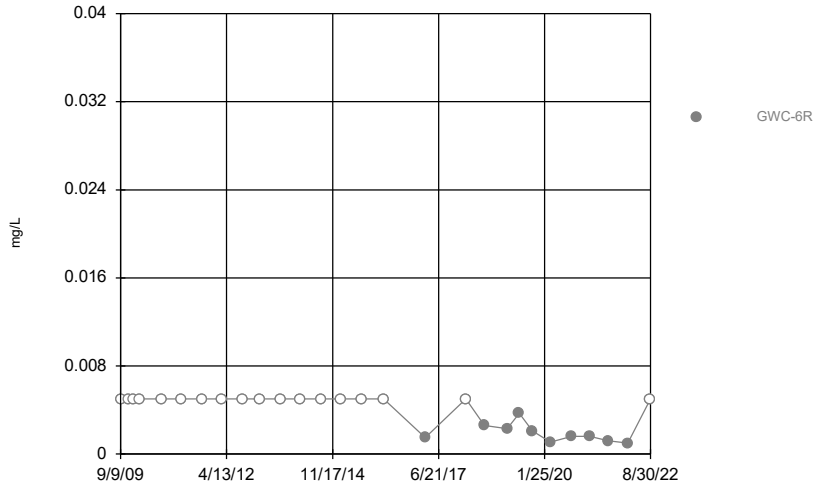
Time Series



Constituent: Nickel Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

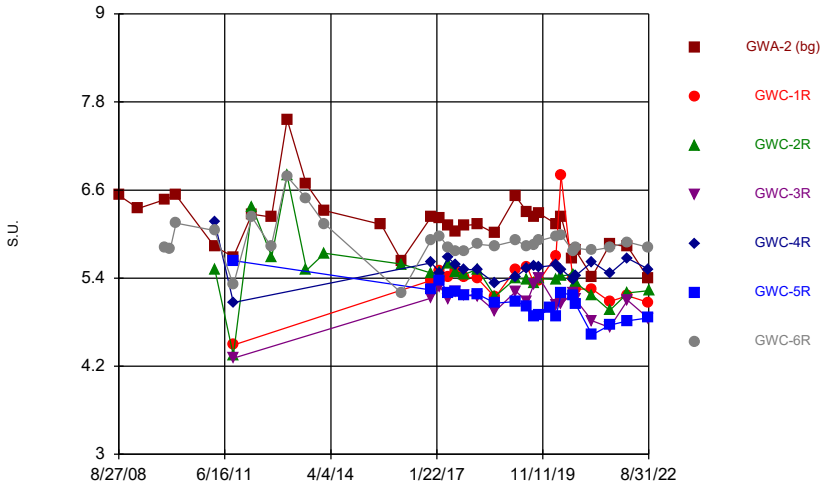
Time Series



Constituent: Nickel Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

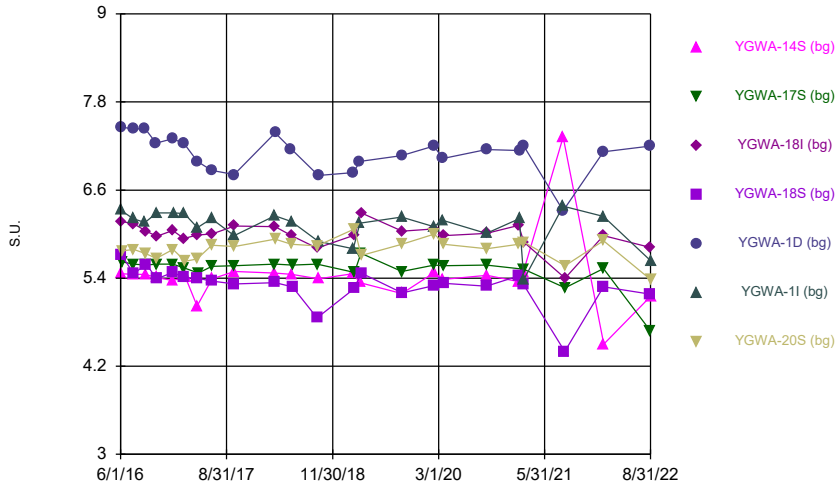
Time Series



Constituent: pH Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

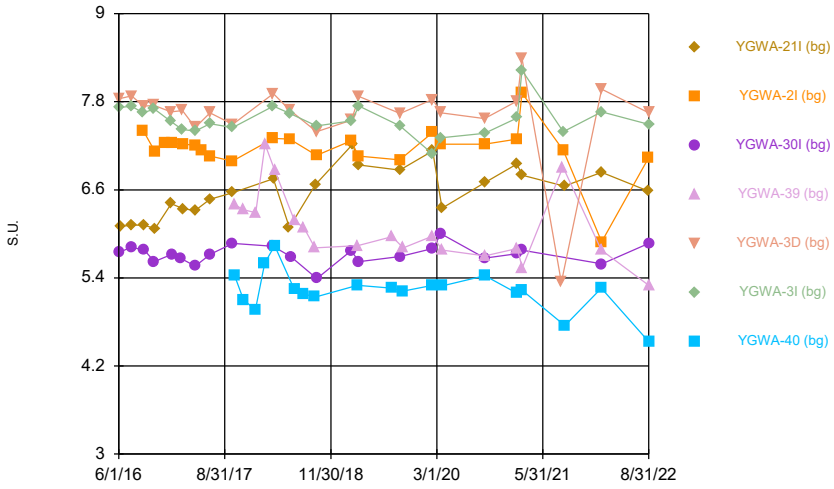
Time Series



Constituent: pH Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

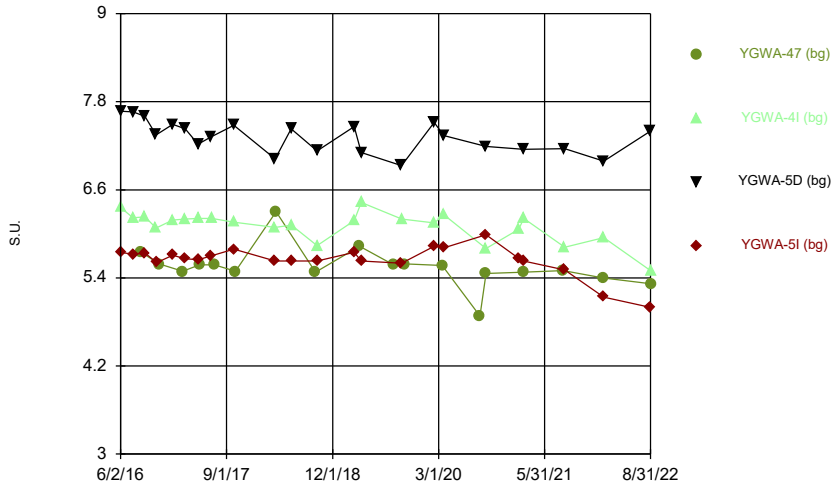
Time Series



Constituent: pH Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

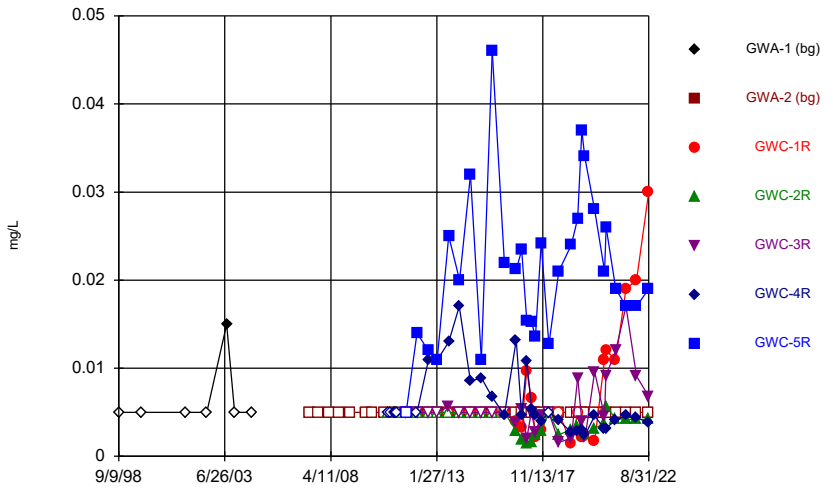
Time Series



Constituent: pH Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

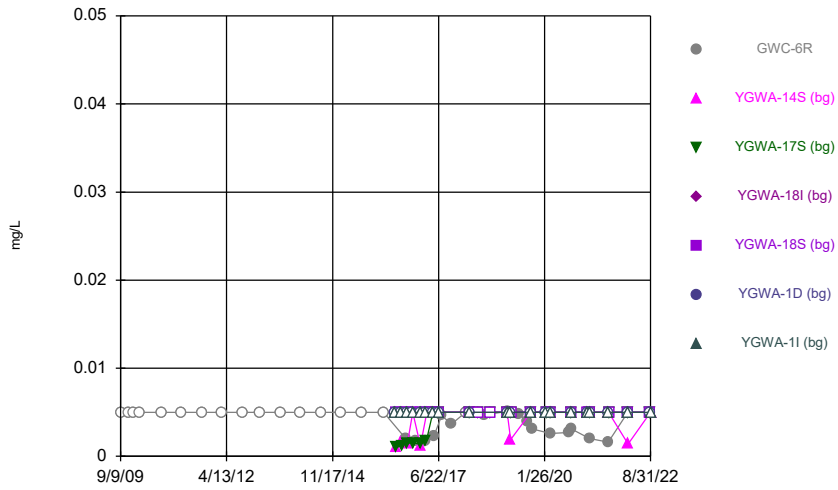
Time Series



Constituent: Selenium Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

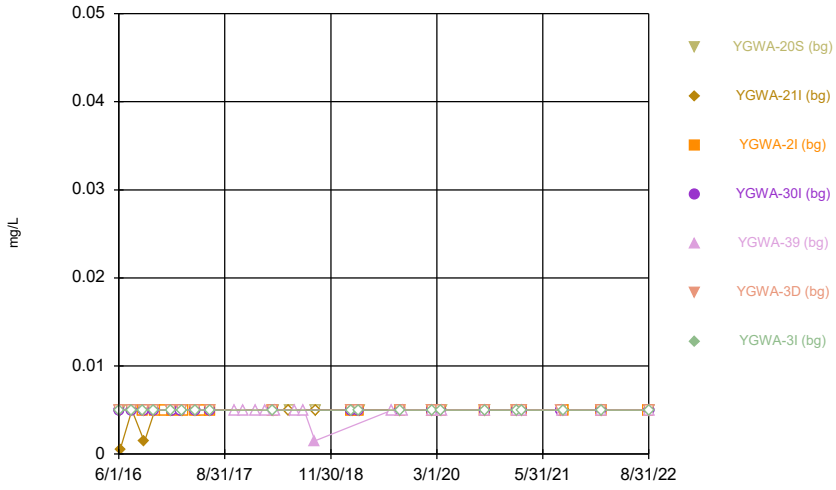
Time Series



Constituent: Selenium Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

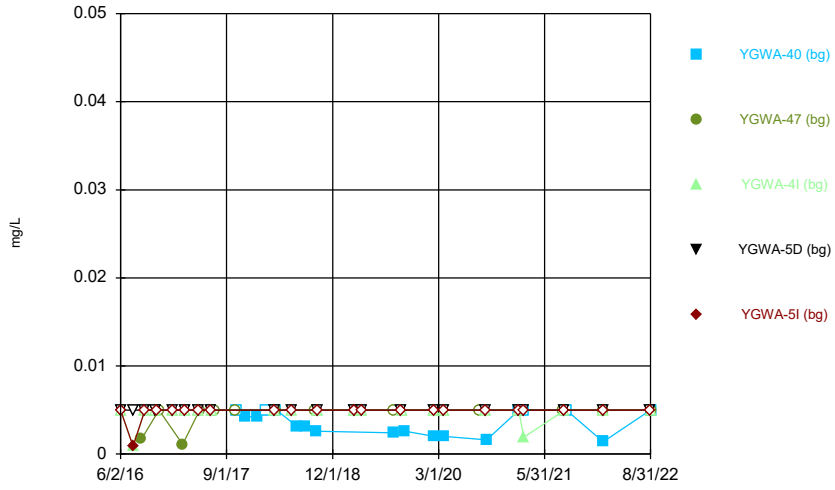
Time Series



Constituent: Selenium Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

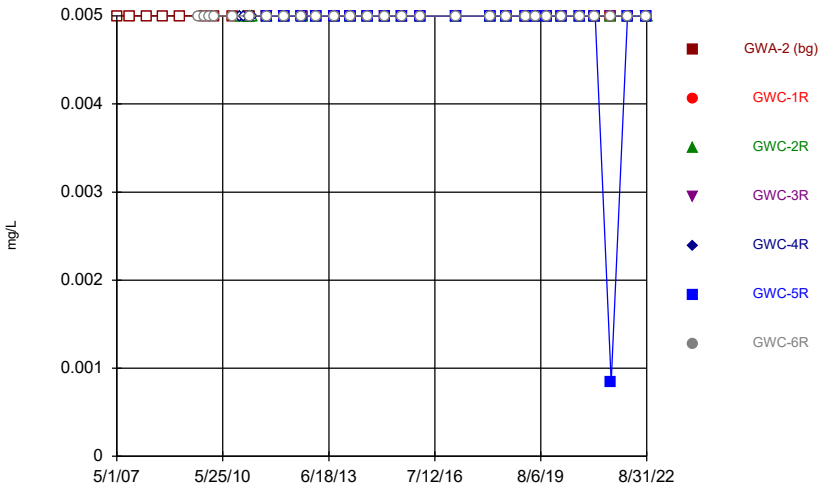
Time Series



Constituent: Selenium Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

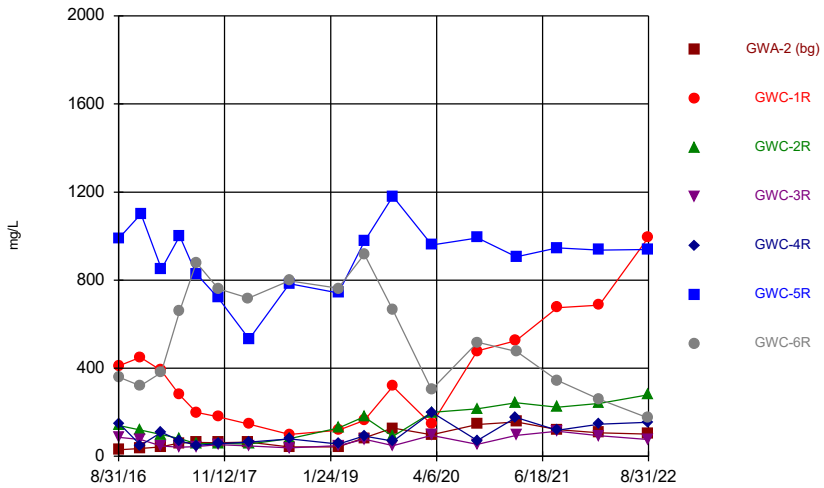
Time Series



Constituent: Silver Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

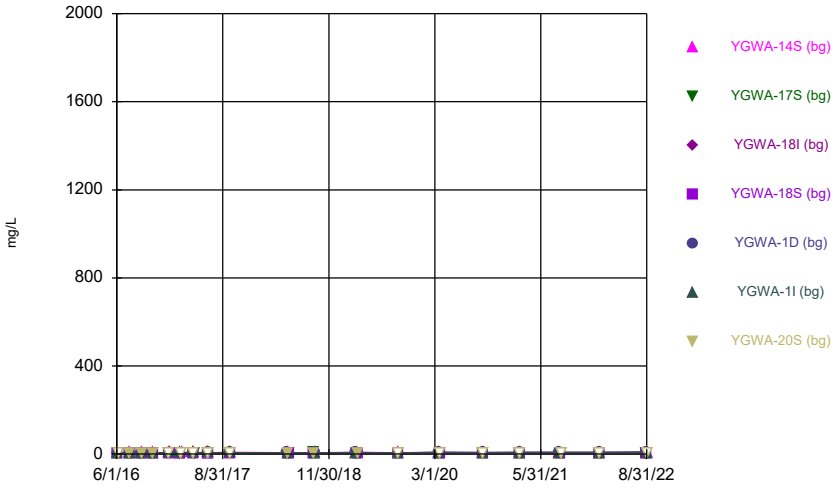
Time Series



Constituent: Sulfate Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

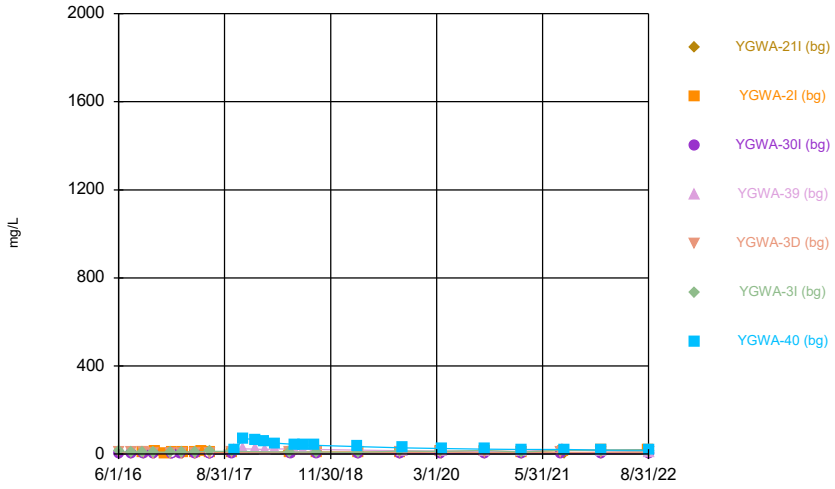
Time Series



Constituent: Sulfate Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

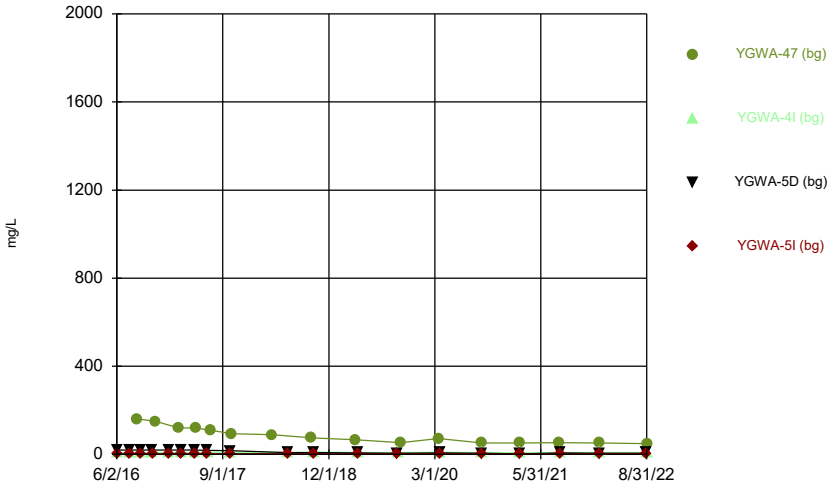
Time Series



Constituent: Sulfate Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

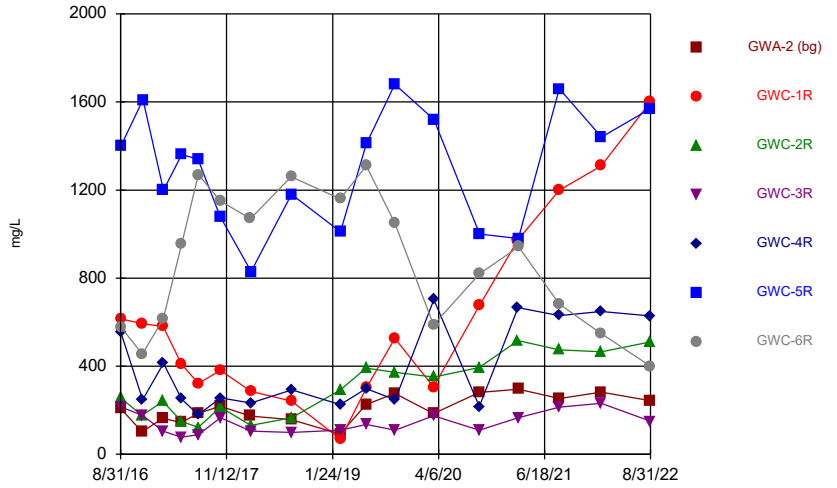
Time Series



Constituent: Sulfate Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

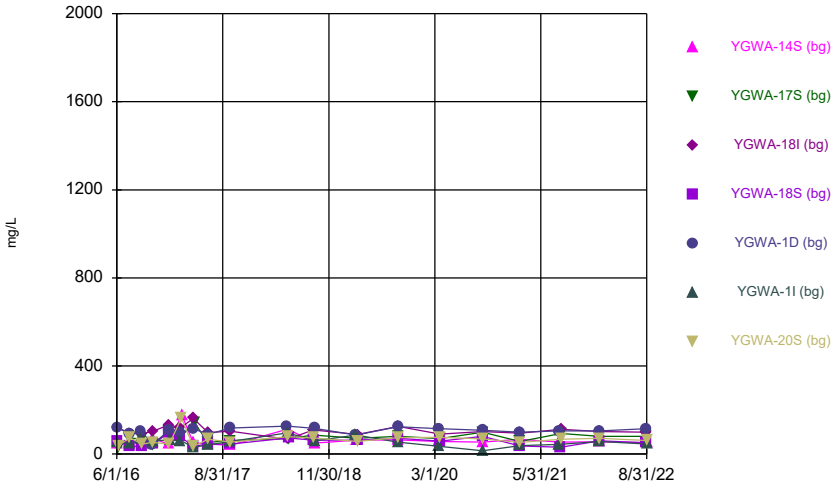
Time Series



Constituent: TDS Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

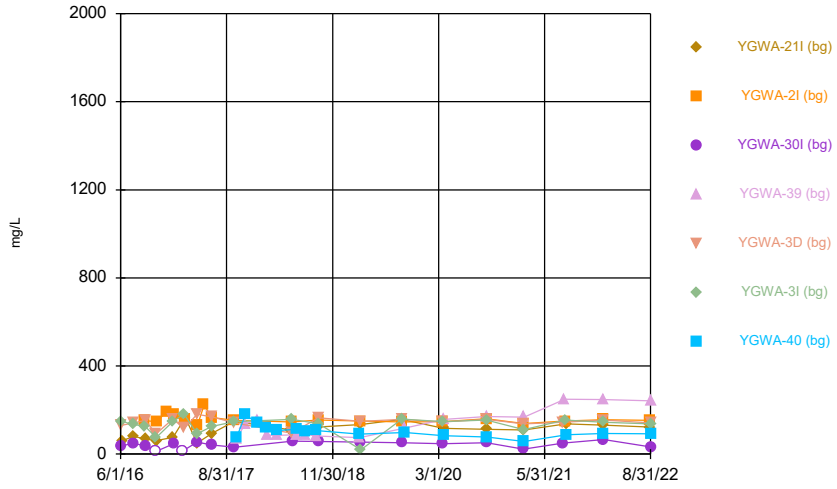
Time Series



Constituent: TDS Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

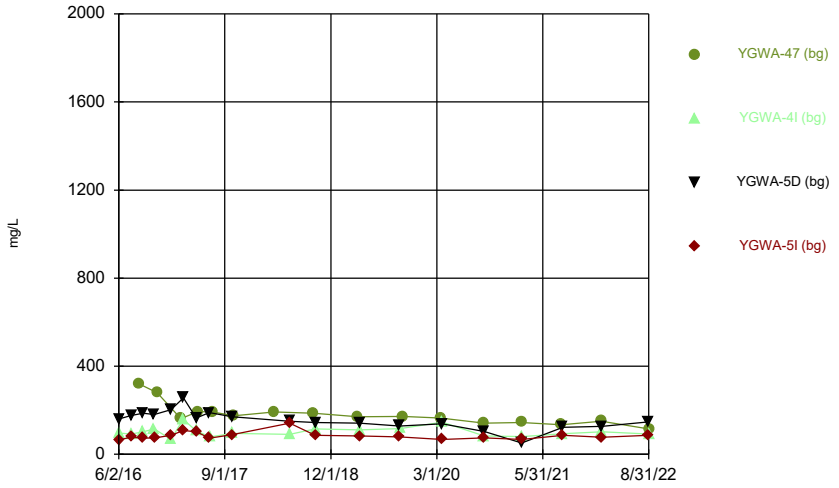
Time Series



Constituent: TDS Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

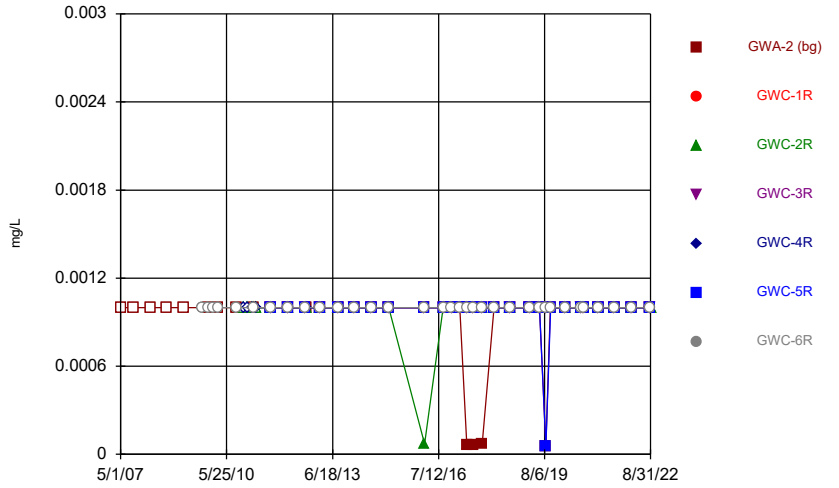
Time Series



Constituent: TDS Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

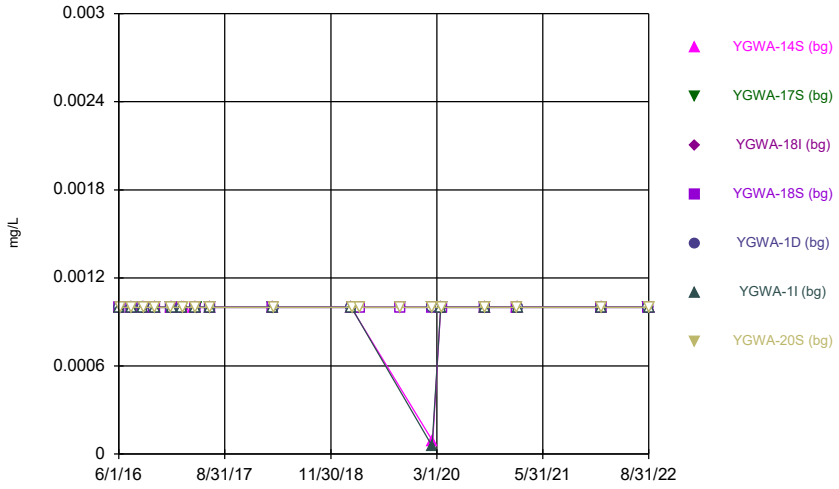
Time Series



Constituent: Thallium Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

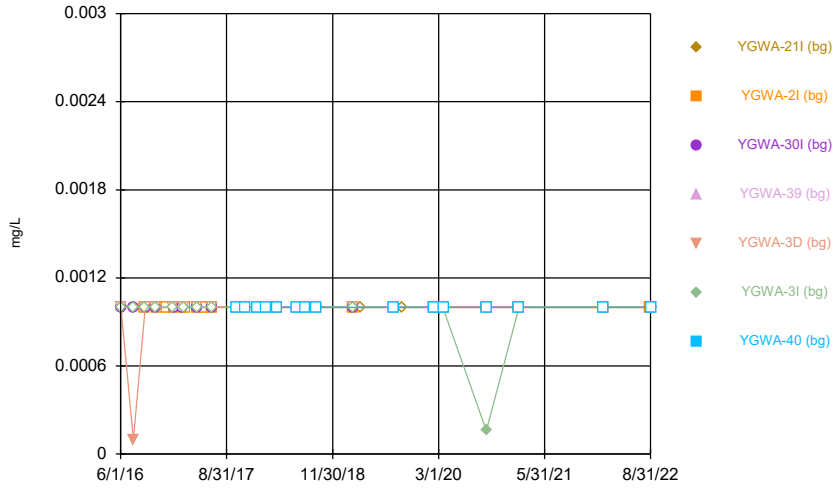
Time Series



Constituent: Thallium Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

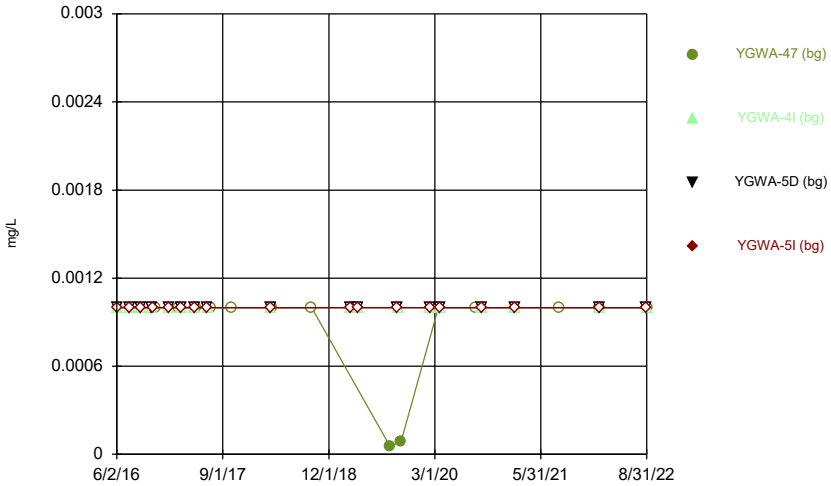
Time Series



Constituent: Thallium Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

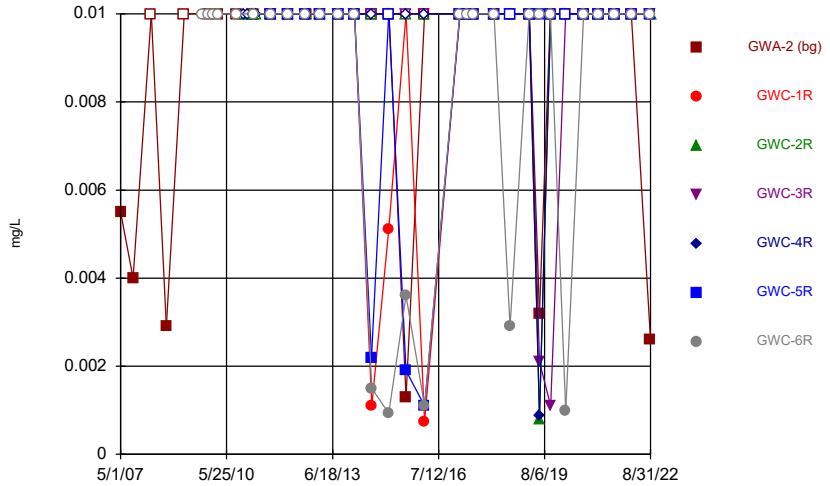
Time Series



Constituent: Thallium Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

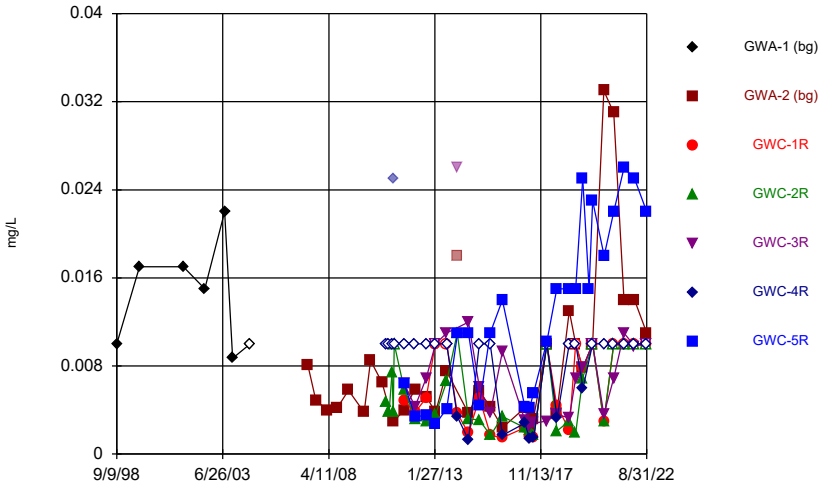
Time Series



Constituent: Vanadium Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

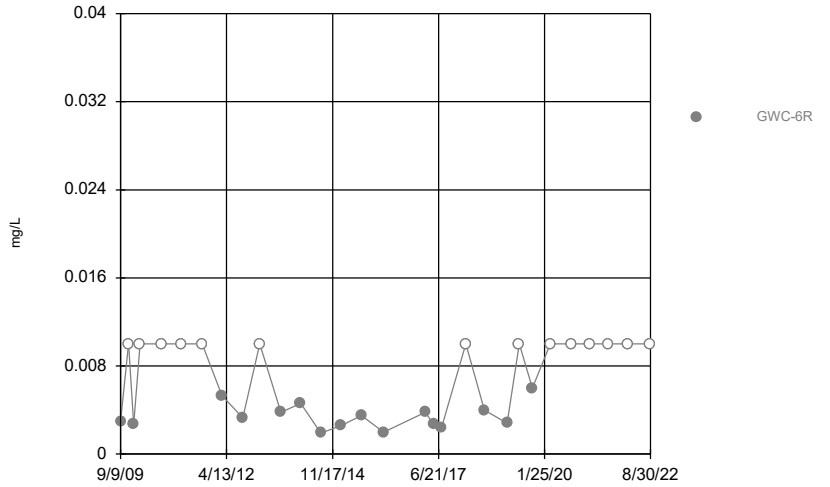
Time Series



Constituent: Zinc Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Time Series



Constituent: Zinc Analysis Run 10/21/2022 2:54 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

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	<0.003						
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				
8/31/2016	<0.003	<0.003	<0.003	<0.003			
9/1/2016					0.0014 (J)	<0.003	<0.003
11/28/2016	0.0014 (J)		<0.003				
11/29/2016		<0.003					<0.003
11/30/2016				<0.003	<0.003		
12/1/2016						<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	
5/8/2017	<0.003						
5/9/2017		<0.003		<0.003			

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
5/10/2017			<0.003		<0.003	<0.003	<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	
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	
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)	
10/8/2019	<0.003						<0.003
10/9/2019		<0.003	<0.003			<0.003	
10/10/2019				<0.003	<0.003		
3/17/2020	<0.003	<0.003		<0.003			<0.003
3/18/2020			<0.003		<0.003	<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)		
9/23/2020						0.00031 (J)	<0.003
3/1/2021		<0.003	<0.003		<0.003		
3/2/2021	<0.003			<0.003		<0.003	
3/3/2021							<0.003
8/18/2021		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/20/2021	<0.003						
2/8/2022	<0.003	<0.003		<0.003	0.0017 (J)		<0.003
2/9/2022			<0.003			<0.003	
8/30/2022	<0.003	<0.003		<0.003	0.00094 (J)	<0.003	<0.003
8/31/2022			<0.003				

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (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	
7/26/2016	0.0005 (J)				0.001 (J)		
7/27/2016		<0.003	0.0005 (J)	<0.003			<0.003
9/13/2016					0.001 (J)	<0.003	
9/15/2016	<0.003						
9/16/2016		<0.003		<0.003			
9/19/2016			<0.003				<0.003
11/1/2016					0.0015 (J)		
11/2/2016	<0.003						<0.003
11/3/2016		<0.003	<0.003	<0.003			
11/4/2016						<0.003	
1/10/2017	<0.003						
1/11/2017		<0.003	<0.003	<0.003	<0.003		
1/13/2017							<0.003
1/16/2017						<0.003	
3/1/2017			<0.003	<0.003			
3/2/2017		<0.003			0.0004 (J)	<0.003	
3/6/2017							<0.003
3/8/2017	<0.003						
4/26/2017	<0.003		<0.003	<0.003			<0.003
4/27/2017					0.0004 (J)	0.0017 (J)	
5/2/2017		<0.003					
6/27/2017					<0.003	<0.003	
6/28/2017			<0.003	<0.003			
6/29/2017		<0.003					<0.003
6/30/2017	<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
2/26/2019	<0.003						
2/27/2019					<0.003	<0.003	
3/5/2019		<0.003		<0.003			<0.003
3/6/2019			<0.003				
4/2/2019		<0.003					
4/3/2019			<0.003	<0.003			<0.003
9/25/2019		<0.003					<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	<0.003			
2/12/2020	<0.003						<0.003
3/18/2020	<0.003					0.0004 (J)	
3/19/2020					<0.003		
3/24/2020		<0.003	<0.003	<0.003			<0.003
9/23/2020		<0.003	<0.003	<0.003	<0.003	<0.003	
9/24/2020							<0.003
9/25/2020	<0.003						
2/9/2021			<0.003	<0.003			0.00032 (J)
2/10/2021	<0.003						

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
2/12/2021					<0.003	<0.003	
3/2/2021	<0.003						
3/3/2021		<0.003	<0.003	0.00067 (J)	<0.003	<0.003	<0.003
8/19/2021	<0.003				<0.003	<0.003	
8/26/2021				<0.003			
8/27/2021		<0.003	<0.003				<0.003
2/9/2022		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/10/2022	<0.003						
8/30/2022		<0.003	<0.003	<0.003	<0.003		
8/31/2022	<0.003					<0.003	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						<0.003	
6/2/2016			<0.003		<0.003		
6/7/2016	<0.003						
7/25/2016			<0.003			<0.003	
7/26/2016					0.002 (J)		
7/28/2016	<0.003						
9/14/2016		<0.003				<0.003	
9/15/2016					0.0027 (J)		
9/19/2016	0.001 (J)		<0.003				
11/1/2016			<0.003		<0.003	<0.003	
11/3/2016	<0.003						
11/4/2016		<0.003					
12/15/2016		0.0012 (J)					
1/11/2017					<0.003	<0.003	
1/13/2017	<0.003						
1/16/2017		<0.003	<0.003				
2/21/2017			<0.003				
3/1/2017						<0.003	
3/2/2017					0.0008 (J)		
3/3/2017		<0.003					
3/6/2017	0.0005 (J)						
4/26/2017	<0.003		<0.003		<0.003	<0.003	
4/28/2017		0.0015 (J)					
5/26/2017		0.0005 (J)					
6/28/2017		<0.003			<0.003	<0.003	
6/29/2017	<0.003						
6/30/2017			<0.003				
10/11/2017				0.0006 (J)			
10/12/2017							<0.003
11/20/2017				<0.003			<0.003
1/10/2018							<0.003
1/11/2018				<0.003			
2/19/2018							<0.003
2/20/2018				<0.003			
3/27/2018			<0.003				
3/28/2018		<0.003			<0.003	<0.003	
3/29/2018	<0.003						
4/3/2018				<0.003			<0.003
6/28/2018				<0.003			<0.003
8/7/2018				<0.003			<0.003
9/24/2018				<0.003			<0.003
2/26/2019			<0.003				
2/27/2019		<0.003			<0.003	<0.003	
3/5/2019	0.0011 (J)						
4/2/2019	0.0011 (J)						
8/21/2019				<0.003			<0.003
9/24/2019	0.0035						
2/11/2020		0.00036 (J)				<0.003	
2/12/2020	0.0015 (J)		<0.003	<0.003	<0.003		<0.003
3/19/2020		0.0003 (J)	<0.003		0.00064 (J)	<0.003	
3/24/2020	0.0017 (J)						<0.003
3/25/2020				0.0014 (J)			

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
9/23/2020		<0.003			<0.003	<0.003	
9/24/2020	0.0047		<0.003	<0.003			<0.003
2/9/2021	0.0013 (J)						
2/10/2021		0.0013 (J)		<0.003	<0.003	<0.003	<0.003
2/11/2021			<0.003				
3/1/2021			<0.003				
3/3/2021		<0.003			<0.003	<0.003	
3/4/2021	0.0014 (J)			<0.003			<0.003
8/19/2021			<0.003		<0.003		
8/26/2021				<0.003			
8/27/2021		<0.003				<0.003	
9/1/2021	<0.003						
9/3/2021							<0.003
2/8/2022				<0.003			<0.003
2/9/2022	<0.003	<0.003			0.0018 (J)	<0.003	
2/11/2022			<0.003				
8/30/2022	0.0046	<0.003					
8/31/2022			<0.003	<0.003	<0.003	<0.003	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		<0.003	<0.003	<0.003
7/26/2016		0.0003 (J)	<0.003	<0.003
8/30/2016	0.0028 (J)			
9/14/2016		<0.003	<0.003	<0.003
11/2/2016		<0.003	<0.003	
11/4/2016				<0.003
11/14/2016	<0.003			
1/12/2017			<0.003	<0.003
1/13/2017		<0.003		
2/24/2017	<0.003			
3/6/2017		<0.003		
3/7/2017			<0.003	<0.003
5/1/2017		<0.003	<0.003	
5/2/2017				<0.003
5/8/2017	0.0004 (J)			
6/27/2017			<0.003	<0.003
6/29/2017		<0.003		
7/11/2017	0.0006 (J)			
10/10/2017	<0.003			
3/29/2018		<0.003	<0.003	<0.003
4/2/2018	<0.003			
9/19/2018	<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			
9/24/2019			<0.003	<0.003
9/25/2019		<0.003		
2/12/2020		<0.003	<0.003	<0.003
3/24/2020			<0.003	<0.003
3/25/2020		<0.003		
8/27/2020	0.00048 (J)			
9/22/2020	<0.003	<0.003	<0.003	<0.003
2/8/2021			<0.003	<0.003
2/9/2021		<0.003		
3/1/2021	0.00048 (J)			
3/2/2021			<0.003	<0.003
3/3/2021		<0.003		
8/19/2021	<0.003			
8/26/2021		<0.003	<0.003	<0.003
2/8/2022	<0.003			
2/10/2022			<0.003	<0.003
2/11/2022		<0.003		
8/30/2022			<0.003	<0.003
8/31/2022	<0.003	<0.003		

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

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
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					
11/18/2009		<0.005					
3/3/2010		<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					
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				
3/4/2012						<0.005	
3/5/2012		<0.005	<0.005		<0.005		<0.005
3/6/2012				<0.005			
9/5/2012			<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
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		
8/14/2013						<0.005	<0.005
2/4/2014			<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			
2/2/2015			<0.005	<0.005		<0.005	
2/3/2015					<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			
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	<0.005		
9/1/2016						<0.005	<0.005
11/28/2016		<0.005		<0.005			
11/29/2016			<0.005				
11/30/2016					<0.005	<0.005	
12/1/2016							<0.005
2/22/2017		<0.005		<0.005			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

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
2/23/2017			<0.005		<0.005		
2/24/2017						<0.005	<0.005
5/8/2017		<0.005					
5/9/2017			0.0005 (J)		<0.005		
5/10/2017				<0.005		<0.005	0.0011 (J)
7/17/2017		<0.005					0.0013 (J)
7/18/2017			<0.005	<0.005	<0.005	<0.005	
10/16/2017		<0.005					0.0011 (J)
10/17/2017			0.0009 (J)	<0.005		<0.005	
10/18/2017					<0.005		
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		<0.005					
8/7/2018			<0.005		<0.005		0.0021 (J)
8/8/2018				<0.005		<0.005	
2/25/2019		<0.005					
2/26/2019			<0.005	<0.005	<0.005	<0.005	0.00069 (J)
6/12/2019		0.00038 (J)		<0.005		0.00037 (J)	
6/13/2019			<0.005		0.0016 (J)		0.0012 (J)
8/19/2019		0.00095 (J)				0.00059 (J)	
8/20/2019			0.00044 (J)	0.00075 (J)			
8/21/2019					0.00061 (J)		0.00094 (J)
10/8/2019		<0.005					
10/9/2019			<0.005	<0.005			0.0012 (J)
10/10/2019					<0.005	<0.005	
3/17/2020		<0.005	<0.005		0.0016 (J)		
3/18/2020				<0.005		<0.005	0.0008 (J)
8/26/2020		<0.005					
8/27/2020			0.0011 (J)				0.0016 (J)
8/28/2020				<0.005	<0.005	<0.005	
9/22/2020		<0.005	<0.005	<0.005	<0.005	<0.005	
9/23/2020							0.00092 (J)
3/1/2021			0.0022 (J)	0.0011 (J)		<0.005	
3/2/2021		<0.005			0.0017 (J)		0.0024 (J)
8/18/2021			0.0016 (J)	<0.005	0.0028 (J)	<0.005	0.0021 (J)
8/20/2021		<0.005					
2/8/2022		0.0033 (J)	0.0026 (J)		0.0015 (J)	0.0013 (J)	
2/9/2022				<0.005			0.0034 (J)
8/30/2022		0.0024 (J)	0.0035 (J)		<0.005	<0.005	0.0035 (J)
8/31/2022				<0.005			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
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						
6/1/2016						0.0021	<0.005
6/2/2016		<0.005					
6/6/2016				<0.005	<0.005		
6/7/2016			<0.005				
7/25/2016							<0.005
7/26/2016		<0.005				0.0016 (J)	
7/27/2016			<0.005	<0.005	<0.005		
9/1/2016	<0.005						
9/13/2016						<0.005	<0.005
9/15/2016		<0.005					
9/16/2016			<0.005		<0.005		
9/19/2016				<0.005			
11/1/2016						<0.005	
11/2/2016		<0.005					
11/3/2016			<0.005	<0.005	<0.005		
11/4/2016							<0.005
11/29/2016	<0.005						
1/10/2017		<0.005					
1/11/2017			<0.005	<0.005	<0.005	0.0017 (J)	
1/16/2017							<0.005
2/23/2017	<0.005						
3/1/2017				<0.005	<0.005		
3/2/2017			<0.005			0.0014 (J)	<0.005
3/8/2017		<0.005					
4/26/2017		<0.005		<0.005	<0.005		
4/27/2017						0.0018 (J)	<0.005
5/2/2017			<0.005				
5/10/2017	0.0007 (J)						
6/27/2017						0.0018 (J)	<0.005
6/28/2017				<0.005	<0.005		
6/29/2017			<0.005				
6/30/2017		<0.005					
7/18/2017	0.001 (J)						
10/18/2017	0.0011 (J)						
2/19/2018	<0.005						
3/27/2018		<0.005					<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
3/28/2018			<0.005	<0.005	0.00061 (J)		
3/29/2018						0.0017 (J)	
6/5/2018						0.0013 (J)	
6/6/2018							<0.005
6/7/2018				0.00066 (J)			
6/8/2018		<0.005					
6/11/2018			<0.005		<0.005		
8/6/2018	0.0023 (J)						
9/25/2018			<0.005	<0.005	<0.005		
10/1/2018		<0.005				0.0016 (J)	<0.005
2/25/2019	0.00073 (J)						
2/26/2019		<0.005					
2/27/2019						0.0015 (J)	<0.005
3/5/2019			<0.005		<0.005		
3/6/2019				<0.005			
3/28/2019						0.00072 (J)	<0.005
3/29/2019		<0.005					
4/2/2019			<0.005				
4/3/2019				<0.005	<0.005		
6/13/2019	0.00068 (J)						
8/20/2019	0.00072 (J)						
9/24/2019						0.0014 (J)	<0.005
9/25/2019		<0.005	<0.005				
9/26/2019				<0.005	<0.005		
10/8/2019	0.00056 (J)						
2/10/2020						0.0026 (J)	0.0005 (J)
2/11/2020			0.0022 (J)	0.0014 (J)	0.0026 (J)		
2/12/2020		<0.005					
3/17/2020	<0.005						
3/18/2020		<0.005					<0.005
3/19/2020						0.00095 (J)	
3/24/2020			<0.005	<0.005	<0.005		
8/27/2020	0.0011 (J)						
9/23/2020	<0.005		<0.005	<0.005	<0.005	0.0011 (J)	<0.005
9/25/2020		<0.005					
2/9/2021				<0.005	<0.005		
2/10/2021		<0.005					
2/12/2021						<0.005	<0.005
3/2/2021		<0.005					
3/3/2021	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
8/18/2021	<0.005						
8/19/2021		<0.005				<0.005	<0.005
8/26/2021					<0.005		
8/27/2021			<0.005	<0.005			
2/8/2022	<0.005						
2/9/2022			0.0024 (J)	0.0022 (J)	0.0024 (J)	0.0031 (J)	0.0033 (J)
2/10/2022		0.0016 (J)					
8/30/2022	<0.005		<0.005	<0.005	<0.005	<0.005	
8/31/2022		<0.005					<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016							<0.005
6/2/2016				<0.005		<0.005	
6/7/2016	<0.005	<0.005					
7/25/2016				<0.005			<0.005
7/26/2016						<0.005	
7/27/2016	<0.005						
7/28/2016		<0.005					
9/14/2016			<0.005				<0.005
9/15/2016						<0.005	
9/19/2016	<0.005	<0.005		<0.005			
11/1/2016				<0.005		<0.005	<0.005
11/2/2016	<0.005						
11/3/2016		<0.005					
11/4/2016			0.0017 (J)				
12/15/2016			0.0023 (J)				
1/11/2017						<0.005	<0.005
1/13/2017	<0.005	<0.005					
1/16/2017			0.0018 (J)	<0.005			
2/21/2017				<0.005			
3/1/2017							0.0004 (J)
3/2/2017						<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
4/28/2017			0.002 (J)				
5/26/2017			0.0005 (J)				
6/28/2017			0.0016 (J)			0.0007 (J)	0.0011 (J)
6/29/2017	<0.005	<0.005					
6/30/2017				<0.005			
10/11/2017					0.0009 (J)		
11/20/2017					<0.005		
1/11/2018					<0.005		
2/20/2018					<0.005		
3/27/2018				<0.005			
3/28/2018			0.0013 (J)			<0.005	<0.005
3/29/2018	<0.005	0.0015 (J)					
4/3/2018					<0.005		
6/5/2018		0.0013 (J)					
6/6/2018	<0.005						
6/7/2018			0.00082 (J)			<0.005	
6/8/2018							<0.005
6/11/2018				<0.005			
6/28/2018					<0.005		
8/7/2018					<0.005		
9/24/2018					<0.005		
9/25/2018	<0.005	0.0022 (J)					
10/1/2018			0.0011 (J)			<0.005	<0.005
10/2/2018				<0.005			
2/26/2019				<0.005			
2/27/2019			0.001 (J)			<0.005	<0.005
3/5/2019	<0.005	0.0013 (J)					
3/29/2019			0.00063 (J)				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
4/1/2019				<0.005		<0.005	<0.005
4/2/2019		0.00096 (J)					
4/3/2019	<0.005						
8/21/2019					0.00058 (J)		
9/24/2019		0.0026 (J)	<0.005				
9/25/2019	<0.005			<0.005		<0.005	<0.005
10/9/2019					0.00063 (J)		
2/11/2020			0.0044 (J)				0.0041 (J)
2/12/2020	<0.005	0.0025 (J)		0.0032 (J)	0.00058 (J)	0.0038 (J)	
3/19/2020			0.00066 (J)	<0.005		<0.005	<0.005
3/24/2020	<0.005	0.0013 (J)					
3/25/2020					0.0012 (J)		
9/23/2020			0.001 (J)			<0.005	<0.005
9/24/2020	<0.005	0.0014 (J)		<0.005	<0.005		
2/9/2021	<0.005	0.001 (J)					
2/10/2021			<0.005		<0.005	0.00094 (J)	0.00078 (J)
2/11/2021				<0.005			
3/1/2021				<0.005			
3/3/2021	<0.005		0.00098 (J)			<0.005	<0.005
3/4/2021		0.00078 (J)			<0.005		
8/19/2021				<0.005		<0.005	
8/26/2021					<0.005		
8/27/2021	<0.005		<0.005				<0.005
9/1/2021		<0.005					
2/8/2022					0.0034 (J)		
2/9/2022	0.0021 (J)	0.0036 (J)	0.0037 (J)			0.002 (J)	0.0018 (J)
2/11/2022				0.0014 (J)			
8/30/2022		0.0022 (J)	0.0027 (J)				
8/31/2022	<0.005			<0.005	0.0029 (J)	0.0028 (J)	<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016			<0.005	0.00071 (J)	<0.005
7/26/2016			<0.005	0.001 (J)	<0.005
8/30/2016		<0.005			
9/14/2016			<0.005	<0.005	<0.005
11/2/2016			<0.005	<0.005	
11/4/2016					<0.005
11/14/2016		<0.005			
1/12/2017				<0.005	<0.005
1/13/2017			<0.005		
2/24/2017		<0.005			
3/6/2017			<0.005		
3/7/2017				0.0012 (J)	<0.005
5/1/2017			<0.005	<0.005	
5/2/2017					<0.005
5/8/2017		<0.005			
6/27/2017				0.0019 (J)	<0.005
6/29/2017			<0.005		
7/11/2017		<0.005			
10/10/2017		0.0007 (J)			
10/12/2017	<0.005				
11/20/2017	<0.005				
1/10/2018	<0.005				
2/19/2018	<0.005				
3/29/2018			<0.005	0.0006 (J)	<0.005
4/2/2018		<0.005			
4/3/2018	<0.005				
6/6/2018				0.0013 (J)	
6/7/2018			0.00059 (J)		<0.005
6/28/2018	<0.005				
8/7/2018	<0.005				
9/19/2018		0.00072 (J)			
9/24/2018	<0.005				
9/26/2018			<0.005	0.0014 (J)	<0.005
3/4/2019			<0.005	<0.005	<0.005
4/3/2019			<0.005	<0.005	<0.005
8/20/2019		<0.005			
8/21/2019	<0.005				
9/24/2019				0.00043 (J)	<0.005
9/25/2019			<0.005		
10/8/2019		<0.005			
10/9/2019	<0.005				
2/12/2020	0.0034 (J)		<0.005	0.0046 (J)	0.002 (J)
3/17/2020		<0.005			
3/24/2020	<0.005			0.00065 (J)	<0.005
3/25/2020			<0.005		
8/27/2020		<0.005			
9/22/2020		<0.005	<0.005	0.001 (J)	<0.005
9/24/2020	<0.005				
2/8/2021				<0.005	<0.005
2/9/2021			<0.005		
2/10/2021	<0.005				
3/1/2021		<0.005			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
3/2/2021				<0.005	<0.005
3/3/2021			<0.005		
3/4/2021	<0.005				
8/19/2021		<0.005			
8/26/2021			<0.005	0.0016 (J)	<0.005
9/3/2021	<0.005				
2/8/2022	0.003 (J)	0.0027 (J)			
2/10/2022				0.004 (J)	0.0016 (J)
2/11/2022			0.0014 (J)		
8/30/2022				0.0031 (J)	<0.005
8/31/2022	<0.005	<0.005	<0.005		

Time Series

Constituent: Barium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

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
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					
11/18/2009		0.05					
3/3/2010		0.061					
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					
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				
3/4/2012						0.046	
3/5/2012		0.061	0.044		0.014		0.048
3/6/2012				0.049			
9/5/2012			0.034		0.0095		0.07
9/10/2012		0.055				0.084	
9/11/2012				0.045			
2/5/2013			0.03				0.068
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		
8/14/2013						0.042	0.036
2/4/2014			0.037	0.08		0.046	
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			
2/2/2015			0.069	0.066		0.02	
2/3/2015					0.031		0.033
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			
2/16/2016		0.045	0.044		0.038	0.032	0.04
2/17/2016				0.059			
8/31/2016		0.0542	0.0711	0.0601	0.0286		
9/1/2016						0.0377	0.0345
11/28/2016		0.0529		0.0562			
11/29/2016			0.0754				
11/30/2016					0.0258	0.0148	
12/1/2016							0.0342
2/22/2017		0.0607		0.0481			

Time Series

Constituent: Barium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

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
2/23/2017			0.0646		0.0278		
2/24/2017						0.029	0.0347
5/8/2017		0.065					
5/9/2017			0.0463		0.0308		
5/10/2017				0.0563		0.0182	0.0363
7/17/2017		0.06					0.0274
7/18/2017			0.039	0.049	0.0407	0.0187	
10/16/2017		0.0542					0.0151
10/17/2017			0.0349	0.047		0.0157	
10/18/2017					0.049		
2/19/2018		0.0533					
2/20/2018				0.0467		0.0151	
2/21/2018			0.0322		0.0285		0.0174
8/6/2018		0.044					
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		0.063		0.046		0.017	
6/13/2019			0.033		0.021		0.014
8/19/2019		0.065				0.02	
8/20/2019			0.07	0.05			
8/21/2019					0.02		0.014
10/8/2019		0.058					
10/9/2019			0.054	0.045			0.015
10/10/2019					0.018	0.018	
3/17/2020		0.047	0.031		0.024		
3/18/2020				0.04		0.038	0.015
8/26/2020		0.044					
8/27/2020			0.072				0.013
8/28/2020				0.044	0.014	0.026	
9/22/2020		0.045	0.068	0.04	0.014	0.026	
9/23/2020							0.012
3/1/2021			0.063	0.043		0.035	
3/2/2021		0.039			0.015		0.011
8/18/2021			0.076	0.033	0.014	0.04	0.013
8/20/2021		0.036					
2/8/2022		0.037	0.066		0.013	0.031	
2/9/2022				0.038			0.011
8/30/2022		0.031	0.058		0.01	0.022	0.01
8/31/2022				0.026			

Time Series

Constituent: Barium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
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						
6/1/2016						0.008	0.012
6/2/2016		0.0081					
6/6/2016				0.028	0.019		
6/7/2016			0.012				
7/25/2016							0.0091 (J)
7/26/2016		0.0082 (J)				0.006 (J)	
7/27/2016			0.0126	0.0294	0.0167		
9/1/2016	0.0536						
9/13/2016						0.0084 (J)	0.008 (J)
9/15/2016		0.0087 (J)					
9/16/2016			0.0127		0.0168		
9/19/2016				0.0247			
11/1/2016						0.0062 (J)	
11/2/2016		0.0082 (J)					
11/3/2016			0.0128	0.0248	0.0159		
11/4/2016							0.0067 (J)
11/29/2016	0.0459						
1/10/2017		0.0086 (J)					
1/11/2017			0.0142	0.0266	0.0162	0.0069 (J)	
1/16/2017							0.0096 (J)
2/23/2017	0.0581						
3/1/2017				0.0275	0.0195		
3/2/2017			0.0155			0.0071 (J)	0.0112
3/8/2017		0.0088 (J)					
4/26/2017		0.0085 (J)		0.024	0.0182		
4/27/2017						0.0064 (J)	0.0106
5/2/2017			0.0138				
5/10/2017	0.0873						
6/27/2017						0.0054 (J)	0.0092 (J)
6/28/2017				0.0237	0.018		
6/29/2017			0.0128				
6/30/2017		0.0081 (J)					
7/18/2017	0.0994						
10/18/2017	0.0757						
2/19/2018	0.0703						
3/27/2018		<0.01					<0.01

Time Series

Constituent: Barium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
3/28/2018			0.014	0.024	0.021		
3/29/2018						<0.01	
6/5/2018						0.0069 (J)	
6/6/2018							0.0082 (J)
6/7/2018				0.023			
6/8/2018		0.007 (J)					
6/11/2018			0.013		0.019		
8/6/2018	0.076						
9/25/2018			0.014	0.023	0.019		
10/1/2018		0.007 (J)				0.0062 (J)	0.0084 (J)
2/25/2019	0.045						
2/26/2019		0.0067 (J)					
2/27/2019						0.0074 (J)	0.008 (J)
3/5/2019			0.015		0.02		
3/6/2019				0.024			
3/28/2019						0.0082 (J)	0.0082 (J)
3/29/2019		0.0066 (J)					
4/2/2019			0.016				
4/3/2019				0.025	0.017		
6/13/2019	0.062						
8/20/2019	0.06						
9/24/2019						0.0072 (J)	0.0086 (J)
9/25/2019		0.0071 (J)	0.015				
9/26/2019				0.021	0.017		
10/8/2019	0.054						
2/10/2020						0.0066 (J)	0.0091 (J)
2/11/2020			0.015	0.022	0.019		
2/12/2020		0.007 (J)					
3/17/2020	0.031						
3/18/2020		0.0076 (J)					0.0084 (J)
3/19/2020						0.0076 (J)	
3/24/2020			0.015	0.021	0.017		
8/27/2020	0.045						
9/23/2020	0.044		0.015	0.021	0.016	0.0068 (J)	0.0079 (J)
9/25/2020		0.0073 (J)					
2/9/2021				0.023	0.017		
2/10/2021		0.0078 (J)					
2/12/2021						0.0057 (J)	0.009 (J)
3/2/2021		0.0076					
3/3/2021	0.043		0.017	0.023	0.017	0.0068	0.0094
8/18/2021	0.035						
8/19/2021		0.0077				0.0065	0.0079
8/26/2021					0.015		
8/27/2021			0.016	0.02			
2/8/2022	0.03						
2/9/2022			0.017	0.021	0.014	0.0067	0.0088
2/10/2022		0.0088					
8/30/2022	0.028		0.017	0.017	0.012	0.0066	
8/31/2022		0.0075					0.0074

Time Series

Constituent: Barium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016							0.0038
6/2/2016				0.0064		0.01	
6/7/2016	0.014	0.0058					
7/25/2016				0.0071 (J)			0.0031 (J)
7/26/2016						0.0088 (J)	
7/27/2016	0.0141						
7/28/2016		0.0068 (J)					
9/14/2016			0.0037 (J)				0.0027 (J)
9/15/2016						0.009 (J)	
9/19/2016	0.0155	0.0071 (J)		0.0069 (J)			
11/1/2016				0.007 (J)		0.0079 (J)	0.0027 (J)
11/2/2016	0.0157						
11/3/2016		0.0092 (J)					
11/4/2016			0.0059 (J)				
12/15/2016			0.0056 (J)				
1/11/2017						0.0075 (J)	0.0036 (J)
1/13/2017	0.0158	0.0105					
1/16/2017			0.0049 (J)	0.0071 (J)			
2/21/2017				0.0077 (J)			
3/1/2017							0.0036 (J)
3/2/2017						0.009 (J)	
3/3/2017			0.0046 (J)				
3/6/2017	0.0163	0.0105					
4/26/2017	0.0177	0.011		0.0074 (J)		0.0078 (J)	0.0038 (J)
4/28/2017			0.0039 (J)				
5/26/2017			0.0034 (J)				
6/28/2017			0.003 (J)			0.0071 (J)	0.004 (J)
6/29/2017	0.017	0.0109					
6/30/2017				0.0076 (J)			
10/11/2017					0.0092 (J)		
11/20/2017					0.0081 (J)		
1/11/2018					0.0077 (J)		
2/20/2018					<0.01		
3/27/2018				<0.01			
3/28/2018			<0.01			<0.01	<0.01
3/29/2018	0.014	<0.01					
4/3/2018					<0.01		
6/5/2018		0.011					
6/6/2018	0.015						
6/7/2018			0.0037 (J)			0.0068 (J)	
6/8/2018							0.0034 (J)
6/11/2018				0.007 (J)			
6/28/2018					0.0078 (J)		
8/7/2018					0.0078 (J)		
9/24/2018					0.0071 (J)		
9/25/2018	0.015	0.011					
10/1/2018			0.0038 (J)			0.0065 (J)	0.0034 (J)
10/2/2018				0.0069 (J)			
2/26/2019				0.007 (J)			
2/27/2019			0.0035 (J)			0.0059 (J)	0.0034 (J)
3/5/2019	0.016	0.011					
3/29/2019			0.0039 (J)				

Time Series

Constituent: Barium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
4/1/2019				0.0072 (J)		0.0064 (J)	0.003 (J)
4/2/2019		0.011					
4/3/2019	0.018						
8/21/2019					0.015		
9/24/2019		0.011	0.0038 (J)				
9/25/2019	0.014			0.0066 (J)		0.0059 (J)	0.005 (J)
10/9/2019					0.013		
2/11/2020			0.0036 (J)				0.0031 (J)
2/12/2020	0.014	0.011		0.0073 (J)	0.011	0.0062 (J)	
3/19/2020			0.0036 (J)	0.0074 (J)		0.0072 (J)	0.0029 (J)
3/24/2020	0.015	0.011					
3/25/2020					0.014		
9/23/2020			0.0039 (J)			0.0051 (J)	0.0039 (J)
9/24/2020	0.015	0.01		0.0062 (J)	0.016		
2/9/2021	0.015	0.011					
2/10/2021			0.0032 (J)		0.027	0.0059 (J)	0.0029 (J)
2/11/2021				0.0077 (J)			
3/1/2021				0.007			
3/3/2021	0.015		0.0041 (J)			0.0064	0.0031 (J)
3/4/2021		0.011			0.028		
8/19/2021				0.0071		0.0052	
8/26/2021					0.038		
8/27/2021	0.013		0.003 (J)				0.0039 (J)
9/1/2021		0.0099					
2/8/2022					0.041		
2/9/2022	0.014	0.011	0.0029 (J)			0.0051	0.0031 (J)
2/11/2022				0.0077			
8/30/2022		0.0085	0.003 (J)				
8/31/2022	0.011			0.0068	0.035	0.0048 (J)	0.003 (J)

Time Series

Constituent: Barium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016			0.013	0.0084	0.019
7/26/2016			0.0158	0.01	0.0179
8/30/2016		0.0413			
9/14/2016			0.0143	0.0085 (J)	0.0181
11/2/2016			0.0148	0.0091 (J)	
11/4/2016					0.0165
11/14/2016		0.0383			
1/12/2017				0.0089 (J)	0.0199
1/13/2017			0.0146		
2/24/2017		0.0351			
3/6/2017			0.0141		
3/7/2017				0.009 (J)	0.0196
5/1/2017			0.0149	0.0083 (J)	
5/2/2017					0.0202
5/8/2017		0.0251			
6/27/2017				0.0074 (J)	0.0184
6/29/2017			0.0154		
7/11/2017		0.0233			
10/10/2017		0.0207			
10/12/2017	0.0328				
11/20/2017	0.0671				
1/10/2018	0.0656				
2/19/2018	0.0598				
3/29/2018			0.014	<0.01	0.021
4/2/2018		0.022			
4/3/2018	0.045				
6/6/2018				0.008 (J)	
6/7/2018			0.014		0.019
6/28/2018	0.047				
8/7/2018	0.048				
9/19/2018		0.023			
9/24/2018	0.042				
9/26/2018			0.02	0.0075 (J)	0.019
3/4/2019			0.016	0.0077 (J)	0.019
4/3/2019			0.017	0.0087 (J)	0.023
8/20/2019		0.024			
8/21/2019	0.035				
9/24/2019				0.0075 (J)	0.019
9/25/2019			0.015		
10/8/2019		0.025			
10/9/2019	0.036				
2/12/2020	0.035		0.012	0.0079 (J)	0.021
3/17/2020		0.035			
3/24/2020	0.033			0.0076 (J)	0.021
3/25/2020			0.016		
8/27/2020		0.027			
9/22/2020		0.026	0.013	0.0076 (J)	0.019
9/24/2020	0.028				
2/8/2021				0.0079 (J)	0.02
2/9/2021			0.013		
2/10/2021	0.032				
3/1/2021		0.029			

Time Series

Constituent: Barium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
3/2/2021				0.014	0.019
3/3/2021			0.014		
3/4/2021	0.032				
8/19/2021		0.029			
8/26/2021			0.012	0.0092	0.019
9/3/2021	0.035				
2/8/2022	0.039	0.03			
2/10/2022				0.0084	0.02
2/11/2022			0.013		
8/30/2022				0.0079	0.017
8/31/2022	0.035	0.029	0.013		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

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
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					
11/18/2009		<0.0005					
3/3/2010		<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					
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				
3/4/2012						<0.0005	
3/5/2012		<0.0005	<0.0005		<0.0005		<0.0005
3/6/2012				<0.0005			
9/5/2012			<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
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		
8/14/2013						<0.0005	<0.0005
2/4/2014			<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			
2/2/2015			0.00023 (J)	<0.0005		<0.0005	
2/3/2015					0.00061 (J)		0.00023 (J)
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			
2/16/2016		<0.0005	<0.0005		0.00084 (J)	<0.0005	0.00048 (J)
2/17/2016				<0.0005			
8/31/2016		<0.0005	0.0001 (J)	<0.0005	0.0003 (J)		
9/1/2016						<0.0005	0.0005 (J)
11/28/2016		<0.0005		<0.0005			
11/29/2016			<0.0005				
11/30/2016					0.0004 (J)	<0.0005	
12/1/2016							0.0003 (J)
2/22/2017		<0.0005		<0.0005			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

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
2/23/2017			<0.0005		0.0003 (J)		
2/24/2017						<0.0005	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)
7/17/2017		<0.0005					0.0004 (J)
7/18/2017			<0.0005	<0.0005	0.0002 (J)	<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)		
2/19/2018		<0.0005					
2/20/2018				<0.0005		<0.0005	
2/21/2018			<0.0005		<0.0005		<0.0005
8/6/2018		<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					
2/26/2019			7.5E-05 (J)	5.3E-05 (J)	0.00038 (J)	<0.0005	0.0015 (J)
6/12/2019		<0.0005		<0.0005		<0.0005	
6/13/2019			<0.0005		0.00051 (J)		0.0015 (J)
8/19/2019		<0.0005				<0.0005	
8/20/2019			0.0001 (J)	0.00017 (J)			
8/21/2019					0.00046 (J)		0.0028 (J)
10/8/2019		<0.0005					
10/9/2019			0.00013 (J)	0.00014 (J)			0.0022 (J)
10/10/2019					0.00039 (J)	<0.0005	
3/17/2020		<0.0005	7.6E-05 (J)		0.00095 (J)		
3/18/2020				0.00012 (J)		<0.0005	0.0028 (J)
8/26/2020		<0.0005					
8/27/2020			0.00024 (J)				0.0023 (J)
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)
3/1/2021			0.00023 (J)	0.00032 (J)		6E-05 (J)	
3/2/2021		<0.0005			0.00081		0.0037
8/18/2021			0.0003 (J)	0.00022 (J)	0.0011	0.00011 (J)	0.0033
8/20/2021		<0.0005					
2/8/2022		<0.0005	0.00032 (J)		0.001	8.5E-05 (J)	
2/9/2022				0.00023 (J)			0.0036
8/30/2022		<0.0005	0.00037 (J)		0.00056	7.2E-05 (J)	0.0032
8/31/2022				0.00023 (J)			

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
9/9/2009	<0.0005						
11/18/2009	<0.0005						
1/5/2010	<0.0005						
3/3/2010	<0.0005						
9/7/2010	<0.0005						
3/10/2011	<0.0005						
9/8/2011	<0.0005						
3/5/2012	<0.0005						
9/5/2012	<0.0005						
2/5/2013	<0.0005						
8/13/2013	<0.0005						
2/4/2014	<0.0005						
8/5/2014	<0.0005						
2/3/2015	<0.0005						
8/4/2015	<0.0005						
2/16/2016	<0.0005						
6/1/2016						<0.0005	<0.0005
6/2/2016		<0.0005					
6/6/2016				<0.0005	<0.0005		
6/7/2016			<0.0005				
7/25/2016							<0.0005
7/26/2016		0.0002 (J)				<0.0005	
7/27/2016			<0.0005	<0.0005	<0.0005		
9/1/2016	<0.0005						
9/13/2016						<0.0005	<0.0005
9/15/2016		0.0002 (J)					
9/16/2016			<0.0005		<0.0005		
9/19/2016				<0.0005			
11/1/2016						<0.0005	
11/2/2016		0.0002 (J)					
11/3/2016			<0.0005	<0.0005	<0.0005		
11/4/2016							<0.0005
11/29/2016	<0.0005						
1/10/2017		0.0002 (J)					
1/11/2017			<0.0005	<0.0005	<0.0005	<0.0005	
1/16/2017							<0.0005
2/23/2017	<0.0005						
3/1/2017				<0.0005	<0.0005		
3/2/2017			8E-05 (J)			<0.0005	<0.0005
3/8/2017		0.0002 (J)					
4/26/2017		0.0002 (J)		<0.0005	<0.0005		
4/27/2017						<0.0005	<0.0005
5/2/2017			<0.0005				
5/10/2017	<0.0005						
6/27/2017						<0.0005	<0.0005
6/28/2017				<0.0005	<0.0005		
6/29/2017			<0.0005				
6/30/2017		0.0002 (J)					
7/18/2017	<0.0005						
10/18/2017	<0.0005						
2/19/2018	<0.0005						
3/27/2018		<0.0005					<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
3/28/2018			<0.0005	<0.0005	<0.0005		
3/29/2018						<0.0005	
6/7/2018				<0.0005			
6/11/2018			9E-05 (J)		5.7E-05 (J)		
8/6/2018	<0.0005						
9/25/2018			8.9E-05 (J)	<0.0005	8.2E-05 (J)		
2/25/2019	<0.0005						
2/26/2019		0.00016 (J)					
2/27/2019						<0.0005	<0.0005
3/5/2019			9.1E-05 (J)		7.9E-05 (J)		
3/6/2019				<0.0005			
3/28/2019						<0.0005	<0.0005
3/29/2019		0.00017 (J)					
4/2/2019			9E-05 (J)				
4/3/2019				<0.0005	7.5E-05 (J)		
6/13/2019	<0.0005						
8/20/2019	<0.0005						
9/24/2019						<0.0005	<0.0005
9/25/2019		0.00018 (J)	8.1E-05 (J)				
9/26/2019				<0.0005	8.4E-05 (J)		
10/8/2019	<0.0005						
2/10/2020						<0.0005	<0.0005
2/11/2020			7.8E-05 (J)	<0.0005	7.6E-05 (J)		
2/12/2020		0.00019 (J)					
3/17/2020	<0.0005						
3/18/2020		0.00021 (J)					<0.0005
3/19/2020						<0.0005	
3/24/2020			8E-05 (J)	<0.0005	8.9E-05 (J)		
8/27/2020	<0.0005						
9/23/2020	<0.0005		8.1E-05 (J)	<0.0005	8.8E-05 (J)	<0.0005	<0.0005
9/25/2020		0.00018 (J)					
2/9/2021				<0.0005	9.8E-05 (J)		
2/10/2021		0.00019 (J)					
2/12/2021						<0.0005	<0.0005
3/2/2021		0.00018 (J)					
3/3/2021	<0.0005		9.9E-05 (J)	<0.0005	0.00011 (J)	<0.0005	<0.0005
8/18/2021	<0.0005						
8/19/2021		0.00022 (J)				<0.0005	<0.0005
8/26/2021					9.3E-05 (J)		
8/27/2021			0.0001 (J)	<0.0005			
2/8/2022	<0.0005						
2/9/2022			0.00011 (J)	<0.0005	8.9E-05 (J)	<0.0005	<0.0005
2/10/2022		0.00025 (J)					
8/30/2022	<0.0005		0.0001 (J)	<0.0005	8.2E-05 (J)	<0.0005	
8/31/2022		0.0002 (J)					<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016							<0.0005
6/2/2016				<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						
7/28/2016		<0.0005					
9/14/2016			<0.0005				<0.0005
9/15/2016						<0.0005	
9/19/2016	<0.0005	<0.0005		<0.0005			
11/1/2016				<0.0005		<0.0005	<0.0005
11/2/2016	<0.0005						
11/3/2016		<0.0005					
11/4/2016			<0.0005				
12/15/2016			<0.0005				
1/11/2017						<0.0005	<0.0005
1/13/2017	<0.0005	<0.0005					
1/16/2017			<0.0005	<0.0005			
2/21/2017				<0.0005			
3/1/2017							<0.0005
3/2/2017						<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
4/28/2017			<0.0005				
5/26/2017			<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			
3/28/2018			<0.0005			<0.0005	<0.0005
3/29/2018	<0.0005	<0.0005					
4/3/2018					<0.0005		
6/5/2018		<0.0005					
6/6/2018	8E-05 (J)						
6/28/2018					<0.0005		
8/7/2018					<0.0005		
9/24/2018					<0.0005		
9/25/2018	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	0.00011 (J)	<0.0005					
3/29/2019			<0.0005				
4/1/2019				<0.0005		<0.0005	<0.0005
4/2/2019		<0.0005					
4/3/2019	6.4E-05 (J)						
8/21/2019					<0.0005		
9/24/2019		<0.0005	<0.0005				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
9/25/2019	<0.0005			<0.0005		<0.0005	<0.0005
10/9/2019					<0.0005		
2/11/2020			<0.0005				<0.0005
2/12/2020	7.8E-05 (J)	<0.0005		<0.0005	<0.0005	<0.0005	
3/19/2020			<0.0005	<0.0005		<0.0005	<0.0005
3/24/2020	7.6E-05 (J)	<0.0005					
3/25/2020					<0.0005		
9/23/2020			<0.0005			<0.0005	5.9E-05 (J)
9/24/2020	8.3E-05 (J)	<0.0005		<0.0005	<0.0005		
2/9/2021	6.8E-05 (J)	<0.0005					
2/10/2021			<0.0005		5.1E-05 (J)	<0.0005	<0.0005
2/11/2021				4.7E-05 (J)			
3/1/2021				<0.0005			
3/3/2021	6.8E-05 (J)		<0.0005			<0.0005	<0.0005
3/4/2021		<0.0005			<0.0005		
8/19/2021				<0.0005		<0.0005	
8/26/2021					<0.0005		
8/27/2021	5.9E-05 (J)		<0.0005				<0.0005
9/1/2021		<0.0005					
2/8/2022					<0.0005		
2/9/2022	7.7E-05 (J)	<0.0005	<0.0005			<0.0005	<0.0005
2/11/2022				<0.0005			
8/30/2022		<0.0005	<0.0005				
8/31/2022	<0.0005			<0.0005	<0.0005	<0.0005	<0.0005

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016			<0.0005	<0.0005	<0.0005
7/26/2016			<0.0005	<0.0005	<0.0005
8/30/2016		<0.0005			
9/14/2016			<0.0005	<0.0005	<0.0005
11/2/2016			<0.0005	<0.0005	
11/4/2016					<0.0005
11/14/2016		<0.0005			
1/12/2017				<0.0005	<0.0005
1/13/2017			<0.0005		
2/24/2017		<0.0005			
3/6/2017			<0.0005		
3/7/2017				<0.0005	<0.0005
5/1/2017			<0.0005	<0.0005	
5/2/2017					<0.0005
5/8/2017		7E-05 (J)			
6/27/2017				<0.0005	<0.0005
6/29/2017			<0.0005		
7/11/2017		<0.0005			
10/10/2017		<0.0005			
10/12/2017	0.0002 (J)				
11/20/2017	0.0003 (J)				
1/10/2018	0.0003 (J)				
2/19/2018	<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	0.00029 (J)				
8/7/2018	0.00024 (J)				
9/19/2018		5.7E-05 (J)			
9/24/2018	0.00019 (J)				
9/26/2018			<0.0005	<0.0005	<0.0005
3/4/2019			<0.0005	<0.0005	<0.0005
4/3/2019			<0.0005	<0.0005	<0.0005
8/20/2019		<0.0005			
8/21/2019	0.0002 (J)				
9/24/2019				<0.0005	<0.0005
9/25/2019			<0.0005		
10/9/2019	0.0002 (J)				
2/12/2020	0.00018 (J)		<0.0005	<0.0005	<0.0005
3/24/2020	0.00022 (J)			<0.0005	<0.0005
3/25/2020			<0.0005		
8/27/2020		4.7E-05 (J)			
9/22/2020		<0.0005	<0.0005	<0.0005	<0.0005
9/24/2020	0.0002 (J)				
2/8/2021				<0.0005	<0.0005
2/9/2021			<0.0005		
2/10/2021	0.00021 (J)				
3/1/2021		5.5E-05 (J)			
3/2/2021				<0.0005	<0.0005
3/3/2021			<0.0005		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
3/4/2021	0.00021 (J)				
8/19/2021		<0.0005			
8/26/2021			<0.0005	<0.0005	<0.0005
9/3/2021	0.00024 (J)				
2/8/2022	0.00028 (J)	5.6E-05 (J)			
2/10/2022				<0.0005	<0.0005
2/11/2022			<0.0005		
8/30/2022				<0.0005	<0.0005
8/31/2022	0.00025 (J)	<0.0005	<0.0005		

Time Series

Constituent: Boron (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	0.0315 (J)	0.0553 (J)	0.0305 (J)	0.0315 (J)			
9/1/2016					3.25	0.0191 (J)	0.0108 (J)
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)	
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)	
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
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)
10/16/2017	<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)	
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		
2/25/2019	<0.04						<0.04
2/26/2019		0.062	0.017 (J)	0.0053 (J)	0.75	0.033 (J)	
6/12/2019	<0.04		0.013 (J)		1.5		
6/13/2019		0.057		<0.04		0.03 (J)	<0.04
10/8/2019	<0.04						<0.04
10/9/2019		0.029 (J)	0.018 (J)			0.013 (J)	
10/10/2019				0.0061 (J)	0.78		
3/17/2020	0.0051 (J)	0.092 (J)		0.0099 (J)			<0.04
3/18/2020			0.026 (J)		5.4	0.034 (J)	
9/22/2020	0.0079 (J)	0.025 (J)	0.046 (J)	0.0066 (J)	1		
9/23/2020						0.028 (J)	0.0055 (J)
3/1/2021		0.046	0.087		5.1		
3/2/2021	<0.04			0.0071 (J)		0.023 (J)	
3/3/2021							<0.04
8/18/2021		0.029 (J)	0.14	<0.04	4.5	0.021 (J)	<0.04
8/20/2021	<0.04						
2/8/2022	<0.04	0.021 (J)		<0.04	5.3		<0.04
2/9/2022			0.23			0.043	
8/30/2022	<0.04	0.015 (J)		0.014 (J)	4.4	0.058	0.0092 (J)
8/31/2022			0.19				

Time Series

Constituent: Boron (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					<0.04	<0.04	
6/2/2016	<0.04						
6/6/2016			<0.04	<0.04			
6/7/2016		<0.04					<0.04
7/25/2016						<0.04	
7/26/2016	0.0177 (J)				0.0055 (J)		
7/27/2016		0.008 (J)	<0.04	0.0059 (J)			<0.04
9/13/2016					<0.04	<0.04	
9/15/2016	0.0214 (J)						
9/16/2016		0.0086 (J)		0.0079 (J)			
9/19/2016			<0.04				<0.04
11/1/2016					0.0086 (J)		
11/2/2016	<0.04						<0.04
11/3/2016		0.0077 (J)	<0.04	0.0082 (J)			
11/4/2016						<0.04	
1/10/2017	0.0198 (J)						
1/11/2017		0.0092 (J)	<0.04	0.0096 (J)	0.0074 (J)		
1/13/2017							<0.04
1/16/2017						<0.04	
3/1/2017			<0.04	<0.04			
3/2/2017		0.0095 (J)			0.008 (J)	<0.04	
3/6/2017							<0.04
3/8/2017	0.0189 (J)						
4/26/2017	0.0161 (J)		<0.04	0.0091 (J)			<0.04
4/27/2017					0.0066 (J)	<0.04	
5/2/2017		<0.04					
6/27/2017					0.0087 (J)	0.006 (J)	
6/28/2017			<0.04	0.0079 (J)			
6/29/2017		0.0074 (J)					<0.04
6/30/2017	0.0173 (J)						
10/3/2017					0.0072 (J)	0.0071 (J)	
10/4/2017		0.0077 (J)		0.009 (J)			<0.04
10/5/2017	0.0173 (J)		<0.04				
6/5/2018					0.0052 (J)		
6/6/2018						<0.04	0.0049 (J)
6/7/2018			<0.04				
6/8/2018	0.013 (J)						
6/11/2018		0.01 (J)		0.0093 (J)			
9/25/2018		0.0096 (J)	0.0046 (J)	0.007 (J)			<0.04
10/1/2018	0.015 (J)				0.021 (J)	0.0049 (J)	
3/28/2019					0.005 (J)	<0.04	
3/29/2019	0.014 (J)						
4/2/2019		0.0066 (J)					
4/3/2019			<0.04	0.0053 (J)			<0.04
9/24/2019					0.0064 (J)	0.0055 (J)	
9/25/2019	0.018 (J)	0.0081 (J)					<0.04
9/26/2019			0.0062 (J)	0.0072 (J)			
3/18/2020	0.02 (J)					0.0087 (J)	
3/19/2020					0.0085 (J)		
3/24/2020		0.0092 (J)	0.0054 (J)	0.01 (J)			<0.04
9/23/2020		0.0066 (J)	0.021 (J)	0.006 (J)	<0.04	<0.04	
9/24/2020							0.0094 (J)

Time Series

Constituent: Boron (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/25/2020	0.02 (J)						
3/2/2021	0.017 (J)						
3/3/2021		0.01 (J)	<0.04	0.0094 (J)	<0.04	<0.04	<0.04
8/19/2021	0.018 (J)				<0.04	<0.04	
8/26/2021				<0.04			
8/27/2021		0.011 (J)	<0.04				<0.04
2/9/2022		0.0098 (J)	<0.04	<0.04	<0.04	<0.04	<0.04
2/10/2022	0.02 (J)						
8/30/2022		0.013 (J)	<0.04	0.014 (J)	<0.04		
8/31/2022	0.015 (J)					<0.04	<0.04

Time Series

Constituent: Boron (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						<0.04	
6/2/2016			<0.04		<0.04		
6/7/2016	<0.04						
7/25/2016			<0.04			<0.04	
7/26/2016					0.0097 (J)		
7/28/2016	<0.04						
9/14/2016		<0.04				<0.04	
9/15/2016					0.0102 (J)		
9/19/2016	<0.04		<0.04				
11/1/2016			<0.04		<0.04	<0.04	
11/3/2016	<0.04						
11/4/2016		<0.04					
12/15/2016		0.0107 (J)					
1/11/2017					<0.04	<0.04	
1/13/2017	<0.04						
1/16/2017		<0.04	<0.04				
2/21/2017			<0.04				
3/1/2017						<0.04	
3/2/2017					0.0084 (J)		
3/3/2017		<0.04					
3/6/2017	<0.04						
4/26/2017	<0.04		<0.04		<0.04	<0.04	
4/28/2017		<0.04					
5/26/2017		<0.04					
6/28/2017		<0.04			<0.04	<0.04	
6/29/2017	<0.04						
6/30/2017			<0.04				
10/3/2017	<0.04	<0.04					
10/4/2017			<0.04		<0.04	<0.04	
10/11/2017				0.0135 (J)			
10/12/2017							0.0401
11/20/2017				0.0251 (J)			0.156
1/10/2018							0.15
1/11/2018				0.0255 (J)			
2/19/2018							0.146
2/20/2018				<0.04			
4/3/2018				0.033 (J)			0.12
6/5/2018	0.0092 (J)						
6/7/2018		<0.04			0.004 (J)		
6/8/2018						<0.04	
6/11/2018			0.014 (J)				
6/28/2018				0.053			0.16
8/7/2018				0.024 (J)			0.12
9/24/2018				0.028 (J)			0.099
9/25/2018	0.0054 (J)						
10/1/2018		<0.04			<0.04	<0.04	
10/2/2018			<0.04				
3/26/2019							0.096
3/27/2019				0.017 (J)			
3/29/2019		0.0065 (J)					
4/1/2019			<0.04		<0.04	<0.04	
4/2/2019	0.011 (J)						

Time Series

Constituent: Boron (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
9/24/2019	0.018 (J)	0.0076 (J)					
9/25/2019			<0.04		0.0054 (J)	<0.04	
10/9/2019				0.017 (J)			0.079
3/19/2020		0.0073 (J)	0.0052 (J)		0.0073 (J)	0.0053 (J)	
3/24/2020	0.016 (J)						0.088 (J)
3/25/2020				0.043 (J)			
9/23/2020		<0.04			0.012 (J)	0.0073 (J)	
9/24/2020	0.013 (J)		0.0075 (J)	0.037 (J)			0.087 (J)
3/1/2021			<0.04				
3/3/2021		<0.04			<0.04	<0.04	
3/4/2021	0.0079 (J)			0.033 (J)			0.078
8/19/2021			<0.04		<0.04		
8/26/2021				0.095			
8/27/2021		<0.04				<0.04	
9/1/2021	<0.04						
9/3/2021							0.077
2/8/2022				0.13			0.074
2/9/2022	<0.04	<0.04			0.01 (J)	<0.04	
2/11/2022			<0.04				
8/30/2022	0.012 (J)	<0.04					
8/31/2022			<0.04	0.14	<0.04	<0.04	0.062

Time Series

Constituent: Boron (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		<0.04	<0.04	<0.04
7/26/2016		0.0047 (J)	0.0052 (J)	<0.04
8/30/2016	0.0166 (J)			
9/14/2016		<0.04	0.0071 (J)	0.01 (J)
11/2/2016		<0.04	<0.04	
11/4/2016				<0.04
11/14/2016	0.0166 (J)			
1/12/2017			0.0076 (J)	<0.04
1/13/2017		<0.04		
2/24/2017	0.0145 (J)			
3/6/2017		<0.04		
3/7/2017			0.0089 (J)	<0.04
5/1/2017		<0.04	0.0061 (J)	
5/2/2017				<0.04
5/8/2017	0.0141 (J)			
6/27/2017			0.0079 (J)	<0.04
6/29/2017		<0.04		
7/11/2017	0.0131 (J)			
10/3/2017			0.0094 (J)	<0.04
10/5/2017		<0.04		
10/10/2017	0.0124 (J)			
4/2/2018	0.013 (J)			
6/6/2018			0.0098 (J)	
6/7/2018		0.0045 (J)		<0.04
9/19/2018	0.012 (J)			
9/26/2018		0.005 (J)	0.01 (J)	0.0057 (J)
3/27/2019	0.013 (J)			
4/3/2019		0.0055 (J)	0.0076 (J)	0.0044 (J)
9/24/2019			0.01 (J)	0.0049 (J)
9/25/2019		<0.04		
10/8/2019	0.012 (J)			
3/17/2020	0.023 (J)			
3/24/2020			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)
3/1/2021	0.013 (J)			
3/2/2021			0.0068 (J)	0.011 (J)
3/3/2021		0.0056 (J)		
8/19/2021	0.011 (J)			
8/26/2021		<0.04	0.009 (J)	<0.04
2/8/2022	0.015 (J)			
2/10/2022			0.011 (J)	<0.04
2/11/2022		<0.04		
8/30/2022			0.0098 (J)	<0.04
8/31/2022	0.0091 (J)	<0.04		

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

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	<0.0005						
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				
8/31/2016	<0.0005	<0.0005	0.0001 (J)	<0.0005			
9/1/2016					0.0001 (J)	0.0005 (J)	<0.0005
11/28/2016	<0.0005		0.0001 (J)				
11/29/2016		8E-05 (J)					<0.0005
11/30/2016				<0.0005	<0.0005		
12/1/2016						0.0004 (J)	
2/22/2017	<0.0005		<0.0005				
2/23/2017		<0.0005		<0.0005			<0.0005
2/24/2017					<0.0005	0.0003 (J)	
5/8/2017	<0.0005						
5/9/2017		<0.0005		<0.0005			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
5/10/2017			<0.0005		<0.0005	0.0003 (J)	<0.0005
7/17/2017	<0.0005					0.0004 (J)	
7/18/2017		<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
10/16/2017	<0.0005					0.0006 (J)	
10/17/2017		<0.0005	<0.0005		<0.0005		
10/18/2017				<0.0005			<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	
8/6/2018	<0.0005						<0.0005
8/7/2018		<0.0005		<0.0005		0.00083 (J)	
8/8/2018			<0.0005		<0.0005		
2/25/2019	<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		<0.0005		
6/13/2019		<0.0005		0.00021 (J)		0.00073 (J)	<0.0005
8/19/2019	<0.0005				<0.0005		
8/20/2019		<0.0005	<0.0005				<0.0005
8/21/2019				<0.0005		0.0012 (J)	
10/8/2019	<0.0005						<0.0005
10/9/2019		<0.0005	<0.0005			0.0011 (J)	
10/10/2019				0.00018 (J)	<0.0005		
3/17/2020	<0.0005	<0.0005		0.00037 (J)			<0.0005
3/18/2020			<0.0005		<0.0005	0.0012 (J)	
8/26/2020	<0.0005						
8/27/2020		0.00012 (J)				0.00091 (J)	<0.0005
8/28/2020			0.00015 (J)	0.00014 (J)	<0.0005		
9/22/2020	<0.0005	0.00016 (J)	0.00016 (J)	0.00013 (J)	<0.0005		
9/23/2020						0.00094 (J)	<0.0005
3/1/2021		0.00013 (J)	0.00016 (J)		<0.0005		
3/2/2021	<0.0005			0.00021 (J)		0.0011	
3/3/2021							<0.0005
8/18/2021		0.00017 (J)	0.00016 (J)	0.00022 (J)	<0.0005	0.001	<0.0005
8/20/2021	<0.0005						
2/8/2022	<0.0005	0.00019 (J)		0.00018 (J)	<0.0005		<0.0005
2/9/2022			<0.0005			0.001	
8/30/2022	<0.0005	0.00026 (J)		0.00016 (J)	0.00011 (J)	0.00098	<0.0005
8/31/2022			0.00012 (J)				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (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	
7/26/2016	<0.0005				<0.0005		
7/27/2016		<0.0005	<0.0005	<0.0005			<0.0005
9/13/2016					<0.0005	<0.0005	
9/15/2016	<0.0005						
9/16/2016		<0.0005		<0.0005			
9/19/2016			<0.0005				<0.0005
11/1/2016					<0.0005		
11/2/2016	<0.0005						<0.0005
11/3/2016		<0.0005	<0.0005	<0.0005			
11/4/2016						<0.0005	
1/10/2017	<0.0005						
1/11/2017		0.0001 (J)	<0.0005	0.0001 (J)	0.0002 (J)		
1/13/2017							<0.0005
1/16/2017						<0.0005	
3/1/2017			<0.0005	<0.0005			
3/2/2017		<0.0005			<0.0005	<0.0005	
3/6/2017							<0.0005
3/8/2017	7E-05 (J)						
4/26/2017	<0.0005		<0.0005	<0.0005			<0.0005
4/27/2017					<0.0005	<0.0005	
5/2/2017		<0.0005					
6/27/2017					<0.0005	<0.0005	
6/28/2017			<0.0005	<0.0005			
6/29/2017		<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			
3/29/2018					<0.0005		<0.0005
6/6/2018							<0.0005
6/7/2018			<0.0005				
6/11/2018		<0.0005		<0.0005			
9/25/2018		<0.0005	<0.0005	<0.0005			<0.0005
2/26/2019	<0.0005						
2/27/2019					<0.0005	<0.0005	
3/5/2019		<0.0005		<0.0005			<0.0005
3/6/2019			<0.0005				
3/28/2019					<0.0005	<0.0005	
3/29/2019	<0.0005						
4/2/2019		<0.0005					
4/3/2019			<0.0005	<0.0005			<0.0005
9/24/2019					<0.0005	<0.0005	
9/25/2019	<0.0005	<0.0005					<0.0005
9/26/2019			<0.0005	<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
3/18/2020	<0.0005					<0.0005	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
3/19/2020					<0.0005		
3/24/2020		<0.0005	<0.0005	<0.0005			<0.0005
9/23/2020		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
9/24/2020							<0.0005
9/25/2020	<0.0005						
2/9/2021			<0.0005	<0.0005			<0.0005
2/10/2021	<0.0005						
2/12/2021					<0.0005	<0.0005	
3/2/2021	<0.0005						
3/3/2021		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/19/2021	<0.0005				<0.0005	<0.0005	
8/26/2021				<0.0005			
8/27/2021		<0.0005	<0.0005				<0.0005
2/9/2022		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/10/2022	<0.0005						
8/30/2022		<0.0005	<0.0005	<0.0005	<0.0005		
8/31/2022	<0.0005					<0.0005	<0.0005

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						<0.0005	
6/2/2016			<0.0005		<0.0005		
6/7/2016	<0.0005						
7/25/2016			<0.0005			<0.0005	
7/26/2016					<0.0005		
7/28/2016	<0.0005						
9/14/2016		<0.0005				<0.0005	
9/15/2016					<0.0005		
9/19/2016	<0.0005		<0.0005				
11/1/2016			<0.0005		<0.0005	<0.0005	
11/3/2016	<0.0005						
11/4/2016		<0.0005					
12/15/2016		<0.0005					
1/11/2017					0.0001 (J)	8E-05 (J)	
1/13/2017	<0.0005						
1/16/2017		<0.0005	<0.0005				
2/21/2017			<0.0005				
3/1/2017						<0.0005	
3/2/2017					<0.0005		
3/3/2017		<0.0005					
3/6/2017	<0.0005						
4/26/2017	<0.0005		<0.0005		<0.0005	<0.0005	
4/28/2017		<0.0005					
5/26/2017		<0.0005					
6/28/2017		<0.0005			<0.0005	<0.0005	
6/29/2017	<0.0005						
6/30/2017			<0.0005				
10/11/2017				<0.0005			
10/12/2017							<0.0005
11/20/2017				<0.0005			<0.0005
1/10/2018							<0.0005
1/11/2018				<0.0005			
2/19/2018							<0.0005
2/20/2018				<0.0005			
3/27/2018			<0.0005				
3/28/2018		<0.0005			<0.0005	<0.0005	
3/29/2018	<0.0005						
4/3/2018				<0.0005			<0.0005
6/5/2018	<0.0005						
6/28/2018				<0.0005			<0.0005
8/7/2018				<0.0005			<0.0005
9/24/2018				<0.0005			<0.0005
9/25/2018	9.6E-05 (J)						
2/26/2019			<0.0005				
2/27/2019		<0.0005			<0.0005	<0.0005	
3/5/2019	<0.0005						
3/29/2019		<0.0005					
4/1/2019			<0.0005		<0.0005	<0.0005	
4/2/2019	<0.0005						
8/21/2019				<0.0005			<0.0005
9/24/2019	<0.0005	<0.0005					
9/25/2019			<0.0005		<0.0005	<0.0005	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
10/9/2019				<0.0005			<0.0005
2/11/2020		<0.0005				<0.0005	
2/12/2020	<0.0005		<0.0005	<0.0005	<0.0005		<0.0005
3/19/2020		<0.0005	<0.0005		<0.0005	<0.0005	
3/24/2020	<0.0005						<0.0005
3/25/2020				<0.0005			
9/23/2020		<0.0005			<0.0005	<0.0005	
9/24/2020	<0.0005		<0.0005	<0.0005			<0.0005
2/9/2021	0.00041 (J)						
2/10/2021		<0.0005		0.00019 (J)	<0.0005	<0.0005	<0.0005
2/11/2021			<0.0005				
3/1/2021			<0.0005				
3/3/2021		<0.0005			<0.0005	<0.0005	
3/4/2021	<0.0005			0.0003 (J)			<0.0005
8/19/2021			<0.0005		<0.0005		
8/26/2021				0.00049 (J)			
8/27/2021		<0.0005				<0.0005	
9/1/2021	<0.0005						
9/3/2021							<0.0005
2/8/2022				0.00063			<0.0005
2/9/2022	<0.0005	<0.0005			<0.0005	<0.0005	
2/11/2022			<0.0005				
8/30/2022	<0.0005	<0.0005					
8/31/2022			<0.0005	0.00044 (J)	<0.0005	<0.0005	<0.0005

Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		<0.0005	<0.0005	<0.0005
7/26/2016		<0.0005	<0.0005	<0.0005
8/30/2016	0.0001 (J)			
9/14/2016		<0.0005	<0.0005	<0.0005
11/2/2016		<0.0005	<0.0005	
11/4/2016				<0.0005
11/14/2016	0.0001 (J)			
1/12/2017			<0.0005	9E-05 (J)
1/13/2017		<0.0005		
2/24/2017	9E-05 (J)			
3/6/2017		<0.0005		
3/7/2017			<0.0005	<0.0005
5/1/2017		<0.0005	<0.0005	
5/2/2017				<0.0005
5/8/2017	0.0001 (J)			
6/27/2017			<0.0005	<0.0005
6/29/2017		<0.0005		
7/11/2017	<0.0005			
10/10/2017	<0.0005			
3/29/2018		<0.0005	<0.0005	<0.0005
4/2/2018	<0.0005			
6/6/2018			<0.0005	
6/7/2018		<0.0005		<0.0005
9/19/2018	<0.0005			
9/26/2018		<0.0005	<0.0005	<0.0005
3/4/2019		<0.0005	<0.0005	<0.0005
4/3/2019		<0.0005	<0.0005	<0.0005
8/20/2019	<0.0005			
9/24/2019			<0.0005	<0.0005
9/25/2019		<0.0005		
10/8/2019	<0.0005			
2/12/2020		<0.0005	<0.0005	<0.0005
3/17/2020	<0.0005			
3/24/2020			<0.0005	<0.0005
3/25/2020		<0.0005		
8/27/2020	<0.0005			
9/22/2020		<0.0005	<0.0005	<0.0005
2/8/2021			<0.0005	<0.0005
2/9/2021		<0.0005		
3/2/2021			<0.0005	<0.0005
3/3/2021		<0.0005		
8/19/2021	<0.0005			
8/26/2021		<0.0005	<0.0005	<0.0005
2/8/2022	<0.0005			
2/10/2022			<0.0005	<0.0005
2/11/2022		<0.0005		
8/30/2022			<0.0005	<0.0005
8/31/2022	<0.0005	<0.0005		

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	9.31	69.4	19.9	7.23			
9/1/2016					37.1	113	56.8
11/28/2016	9.47 (B)		17.7 (B)				
11/29/2016		70.6 (B)					50.7 (B)
11/30/2016				6.43 (B)	13.4 (B)		
12/1/2016						141 (B)	
2/22/2017	10.4		16.2				
2/23/2017		62.4		4.25			63.5
2/24/2017					29.5	118	
5/8/2017	14.2						
5/9/2017		47.4		3.56			
5/10/2017			11.8		17	136	105
7/17/2017	14.1					125	
7/18/2017		33.2	8.69	4.16	16.8		157
10/16/2017	13.6					78.2	
10/17/2017		38.7	9.77		14.3		
10/18/2017				5.67			118
2/19/2018	<25						124
2/20/2018			<25		<25		
2/21/2018		34.3		4.76		64	
8/6/2018	11.4 (J)						173
8/7/2018		26.2		4.7		83	
8/8/2018			13.4 (J)		22.1 (J)		
2/25/2019	12.7 (J)						143
2/26/2019		24.7 (J)	20.9 (J)	7.1	15.1 (J)	94.4	
6/12/2019	18.9		26.6		24.2		
6/13/2019		33.8		15.7		127	146
10/8/2019	28.3						115
10/9/2019		59.1	27.8			128	
10/10/2019				4.3	18		
3/17/2020	24.3	36.7		20.3			66.8
3/18/2020			34.5		76.6	149	
9/22/2020	31	98.8	40.5	6.2	21.8		
9/23/2020						144	103
3/1/2021		117	54.1		69.5		
3/2/2021	34.2			17.9		145	
3/3/2021							105
8/18/2021		154	45.8	20.2	56.2	159	74.5
8/20/2021	26.5						
2/8/2022	25.6	166		17.9	66.5		61.5
2/9/2022			46.6			139	
8/30/2022	23.5	189		17.5	55.8	135	40.6
8/31/2022			46.9				

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					12	2.5	
6/2/2016	1.3						
6/6/2016			6.2	1.4			
6/7/2016		2.2					2.3
7/25/2016						2.16	
7/26/2016	1.24				11		
7/27/2016		2	4.73	1.19			2.08
9/13/2016					11.8	2.21	
9/15/2016	1.17						
9/16/2016		1.97		1.5			
9/19/2016			4.76				1.97
11/1/2016					11		
11/2/2016	1.23						2.13
11/3/2016		1.99	5.25	1.31			
11/4/2016						2.67	
1/10/2017	1.24						
1/11/2017		2.28	4.74	1.25	11.2		
1/13/2017							2.45
1/16/2017						2.45	
3/1/2017			5.37	1.26			
3/2/2017		2.15			11	2.57	
3/6/2017							2.48
3/8/2017	1.21						
4/26/2017	1.14		4.28	1.05			2.3
4/27/2017					11.1	2.38	
5/2/2017		1.95					
6/27/2017					13.8	2.36	
6/28/2017			4.95	1.06			
6/29/2017		2.02					2.54
6/30/2017	1.24						
10/3/2017					14	2.21	
10/4/2017		2.03		1.1			2.25
10/5/2017	1.11		5.28				
6/5/2018					15.2 (J)		
6/6/2018						2.3	2.3
6/7/2018			4.8				
6/8/2018	1.1						
6/11/2018		2.1		1.4			
9/25/2018		2.1	4.6	1			2.3
10/1/2018	0.99				15.1	1.8	
3/28/2019					13.3 (J)	2.2	
3/29/2019	1.1						
4/2/2019		2.5					
4/3/2019			5.3	1.2			2.9
9/24/2019					15.8	2.3	
9/25/2019	1.1	2.6					2.4
9/26/2019			4.9	1.1			
3/18/2020	1.1					2.1	
3/19/2020					15		
3/24/2020		2.7	5.3	1			2.6
9/23/2020		2.6	5.2	0.91 (J)	14.1	1.8	
9/24/2020							2.6

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/25/2020	1.3						
3/2/2021	1.2						
3/3/2021		2.5	5.2	0.96 (J)	14.1	1.8	2.4
8/19/2021	1.2				14.2	2	
8/26/2021				0.98 (J)			
8/27/2021		2.7	5.1				2.4
2/9/2022		2.8	5.1	0.87 (J)	14.9	2.1	2.3
2/10/2022	1.3						
8/30/2022		3	5.7	0.77 (J)	14.9		
8/31/2022	1.3					1.9	2.4

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						21	
6/2/2016			1.3		28		
6/7/2016	3.7						
7/25/2016			1.17			20.3	
7/26/2016					24.5		
7/28/2016	3.15						
9/14/2016		23.5				19.7	
9/15/2016					27		
9/19/2016	3.17		1.05				
11/1/2016			1.14		25.6	18.4	
11/3/2016	3.4						
11/4/2016		23.7					
12/15/2016		23.1					
1/11/2017					27.5	20.3	
1/13/2017	4.98						
1/16/2017		23.3	1.23				
2/21/2017			1.25				
3/1/2017						18.6	
3/2/2017					27.5		
3/3/2017		25.1					
3/6/2017	6.28						
4/26/2017	6.65		1.03		30.4	25.6	
4/28/2017		30.7					
5/26/2017		26.2					
6/28/2017		26.1			29.8	23.9	
6/29/2017	6.04						
6/30/2017			1.13				
10/3/2017	8.28	26.7					
10/4/2017			1.09		29.7	22.1	
10/11/2017				2.74			
10/12/2017							2.9
11/20/2017				1.81			10.4
1/10/2018							10.2
1/11/2018				1.54			
2/19/2018							<25
2/20/2018				1.71			
4/3/2018				1.4			6.3
6/5/2018	9.1						
6/7/2018		25			29.1		
6/8/2018						21.9 (J)	
6/11/2018			1.1				
6/28/2018				1.4			6.7
8/7/2018				1.2			6.3
9/24/2018				1.1			5.7
9/25/2018	10.4 (J)						
10/1/2018		25			26.9	19.7	
10/2/2018			1.1				
3/26/2019							5.6
3/27/2019				1.5			
3/29/2019		23.5 (J)					
4/1/2019			1.3		30.1	20.4 (J)	
4/2/2019	8.8						

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
9/24/2019	7.7	26.4					
9/25/2019			1.1		29.5	22.4	
10/9/2019				2.4			4.9
3/19/2020		27.4	1.2		31.5	21.9	
3/24/2020	6						4.8
3/25/2020				2.7			
9/23/2020		26.3			28.6	23.6	
9/24/2020	7.8		1.1	3.7			4.4
3/1/2021			1.2				
3/3/2021		25.6			29.8	20.6	
3/4/2021	8.7			8.2			4.6
8/19/2021			1.2		28.1		
8/26/2021				14.1			
8/27/2021		22.6				24.7	
9/1/2021	9.5						
9/3/2021							5.6
2/8/2022				15.2			6
2/9/2022	9.8	23.4			30.3	23.7	
2/11/2022			1.5				
8/30/2022	7.3	25.4					
8/31/2022			1.3	16.3	28.7	23.5	6.2

Time Series

Constituent: Calcium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		8.8	33	2.4
7/26/2016		7.69	32.3	2.12
8/30/2016	20.9			
9/14/2016		8.49	31	2.18
11/2/2016		7.83	30.9	
11/4/2016				2.17 (J)
11/14/2016	18.6			
1/12/2017			35.7	2.37
1/13/2017		8.08		
2/24/2017	16.1			
3/6/2017		8.64		
3/7/2017			32.7	2.34
5/1/2017		13.4	37	
5/2/2017				2.17
5/8/2017	14.6			
6/27/2017			36.5	2.13
6/29/2017		8.81		
7/11/2017	14.3			
10/3/2017			30.9	2.15
10/5/2017		9.29		
10/10/2017	12.1			
4/2/2018	<25			
6/6/2018			26.2	
6/7/2018		8.2		2.3
9/19/2018	11.1 (J)			
9/26/2018		9.5 (J)	25.8	2.3
3/27/2019	10.8 (J)			
4/3/2019		8.4	24.7 (J)	2.8
9/24/2019			25.8	2.5
9/25/2019		9.5		
10/8/2019	9.7			
3/17/2020	14.8			
3/24/2020			26.1	2.5
3/25/2020		10.5		
9/22/2020	10.1	9.6	27.2	2.6
3/1/2021	10.3			
3/2/2021			1.6	2.6
3/3/2021		7.7		
8/19/2021	9.6			
8/26/2021		7.6	25.2	2.5
2/8/2022	9.4			
2/10/2022			24.8	2.5
2/11/2022		7.5		
8/30/2022			24.8	2.5
8/31/2022	9.6	8.9		

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	4	7.6	6.3	6.7			
9/1/2016					190	6.6	4.4
11/28/2016	4.2		6.7				
11/29/2016		5.8					4.8
11/30/2016				7.8	48		
12/1/2016						6	
2/22/2017	3.7		5.7				
2/23/2017		6.2		6.5			4.4
2/24/2017					130	3.4	
5/8/2017	4.2						
5/9/2017		16		7.2			
5/10/2017			7.1		71	4.5	3.9
7/17/2017	3.8					3.2	
7/18/2017		18	6	7.7	46		4
10/16/2017	4.2					9	
10/17/2017		31	6.1		50		
10/18/2017				6.5			4.1
2/19/2018	4.3						4.4
2/20/2018			5.8		53.1		
2/21/2018		27		6.7		5.6	
8/6/2018	3.8						3.9
8/7/2018		35.4		6.3		4.7	
8/8/2018			4.7		69.3		
2/25/2019	4.1						4.4
2/26/2019		20	5.7	5.7	42.2	4.2	
6/12/2019	4.7		9.1		69.5		
6/13/2019		16.4		5		5.5	6.2
10/8/2019	5.1						4.9
10/9/2019		6.9	9.8			4.5	
10/10/2019				5.3	42.8		
3/17/2020	4.8	15.5		5.2			4.4
3/18/2020			11.7		233	3.8	
9/22/2020	4.2	5.5	24.7	4.2	60.2		
9/23/2020						3	4.7
3/1/2021		8.6	49.6		194		
3/2/2021	4.1			5.5		2.9	
3/3/2021							5
8/18/2021		5.2	26.2	4.6	150	2.3	5.4
8/20/2021	5.2						
2/8/2022	5.7	5.6		4.5	162		6.9
2/9/2022			21.2			2	
8/30/2022	6.3	5.6		3.1	146	1.8	7.5
8/31/2022			14.5				

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					1.3	1.6	
6/2/2016	4.1						
6/6/2016			6.8	6.4			
6/7/2016		4.5					1.9
7/25/2016						1.4	
7/26/2016	4				1.2		
7/27/2016		4.5	6.7	6.2			1.9
9/13/2016					1.1	1.3	
9/15/2016	4.2						
9/16/2016		4.5		6.1			
9/19/2016			7				1.9
11/1/2016					1.3		
11/2/2016	4.9						2.6
11/3/2016		5.4	7.5	7.4			
11/4/2016						1.6	
1/10/2017	4.1						
1/11/2017		4.7	6.5	6.1	1.1		
1/13/2017							2.3
1/16/2017						1.4	
3/1/2017			6.9	6			
3/2/2017		4.8			1	1.3	
3/6/2017							1.9
3/8/2017	4.2						
4/26/2017	4.1		7	6.5			2
4/27/2017					1	1.3	
5/2/2017		4.6					
6/27/2017					1.1	1.4	
6/28/2017			7	6.4			
6/29/2017		4.5					2.6
6/30/2017	3.7						
10/3/2017					1.1	1.7	
10/4/2017		4.7		6.8			2.6
10/5/2017	3.8		7				
6/5/2018					1.1		
6/6/2018						1.4	2.7
6/7/2018			6.8				
6/8/2018	3.4						
6/11/2018		4.9		6.8			
9/25/2018		5.6	7.9	7.8			3.6
10/1/2018	3.8				1.1	1.4	
3/28/2019					1.4	1.5	
3/29/2019	4.2						
4/2/2019		4.8					
4/3/2019			6.9	6.3			3.1
9/24/2019					1.1	1.3	
9/25/2019	4.8	5.7					2.8
9/26/2019			7	7.1			
3/18/2020	5.2					1.4	
3/19/2020					1.1		
3/24/2020		5	7	6.8			2.7
9/23/2020		6.6	7.2	7.2	0.99 (J)	1.2	
9/24/2020							2.7

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/25/2020	5.3						
3/2/2021	4.9						
3/3/2021		7.1	7	7.2	0.96 (J)	1.2	2.7
8/19/2021	5				1.1	1.3	
8/26/2021				7.3			
8/27/2021		8.5	7.4				2.8
2/9/2022		10.9	7.5	7	1	1.3	2.8
2/10/2022	4.7						
8/30/2022		12	7.9	7	1.3		
8/31/2022	4.6					1.5	2.9

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						1.3	
6/2/2016			1.9		1.4		
6/7/2016	2.8						
7/25/2016			1.7			1.3	
7/26/2016					1.6		
7/28/2016	2.6						
9/14/2016		1.1				1.3	
9/15/2016					1.5		
9/19/2016	2.4		1.6				
11/1/2016			1.8		1.7	1.4	
11/3/2016	2.9						
11/4/2016		1.4					
12/15/2016		2.9					
1/11/2017					1.2	1.1	
1/13/2017	2.5						
1/16/2017		0.98	1.7				
2/21/2017			1.7				
3/1/2017						1.1	
3/2/2017					1.2		
3/3/2017		1.1					
3/6/2017	2.1						
4/26/2017	2.1		1.7		1.2	1.1	
4/28/2017		0.91					
5/26/2017		0.93					
6/28/2017		1			1.3	1.2	
6/29/2017	2.8						
6/30/2017			1.8				
10/3/2017	2.2	1.2					
10/4/2017			1.8		1.5	1.2	
10/11/2017				2.4			
10/12/2017							3.8
11/20/2017				1.8			4.4
1/10/2018							4.6
1/11/2018				1.6			
2/19/2018							4.6
2/20/2018				2			
4/3/2018				3.3			5.9
6/5/2018	1.7						
6/7/2018		1			1.2		
6/8/2018						1.2	
6/11/2018			2				
6/28/2018				2.1			5
8/7/2018				1.2			4.3
9/24/2018				1.3			4.9
9/25/2018	2.2						
10/1/2018		1.1			1.5	1.2	
10/2/2018			1.8				
3/26/2019							4.4
3/27/2019				1.4			
3/29/2019		1.2					
4/1/2019			1.7		1.2	1.1	
4/2/2019	2.5						

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
9/24/2019	3.1	0.95 (J)					
9/25/2019			1.6		1.1	1.1	
10/9/2019				2.1			5.1
3/19/2020		0.97 (J)	1.8		1.2	1.1	
3/24/2020	2.8						4.7
3/25/2020				1.9			
9/23/2020		0.88 (J)			1.1	1	
9/24/2020	2		1.5	2.7			5
3/1/2021			1.6				
3/3/2021		0.86 (J)			1.1	0.99 (J)	
3/4/2021	1.8			4.9			4.9
8/19/2021			1.6		1.1		
8/26/2021				7.2			
8/27/2021		0.99 (J)				1.1	
9/1/2021	1.8						
9/3/2021							5.5
2/8/2022				7.4			6.2
2/9/2022	1.7	1 (J)			1.1	1.1	
2/11/2022			2.1				
8/30/2022	2.4	1.2					
8/31/2022			1.8	6.7	1.3	1.3	6.3

Time Series

Constituent: Chloride (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		3.7	7.2	4.3
7/26/2016		3.6	6.6	4.4
8/30/2016	5.2			
9/14/2016		3.4	6.6	3.8
11/2/2016		4.5	7.6	
11/4/2016				4.8
11/14/2016	6.4			
1/12/2017			6.8	3.8
1/13/2017		4.2		
2/24/2017	5.5			
3/6/2017		3.6		
3/7/2017			6.8	4.5
5/1/2017		4.3	7.2	
5/2/2017				4.6
5/8/2017	5.8			
6/27/2017			7	4.3
6/29/2017		4.2		
7/11/2017	5.8			
10/3/2017			6.5	4.2
10/5/2017		4.7		
10/10/2017	5.9			
4/2/2018	4.8			
6/6/2018			4.7	
6/7/2018		4.4		4.5
9/19/2018	4			
9/26/2018		4.8	4.8	5.1
3/27/2019	4.3			
4/3/2019		4.3	4	4.2
9/24/2019			3.7	4.5
9/25/2019		4.5		
10/8/2019	4.4			
3/17/2020	4.1			
3/24/2020			3.5	4.3
3/25/2020		3.9		
9/22/2020	4.2	4.5	3.6	4.2
3/1/2021	3.7			
3/2/2021			3.2	4.3
3/3/2021		4.1		
8/19/2021	3.5			
8/26/2021		4.4	3.4	4.3
2/8/2022	3.2			
2/10/2022			3.2	4.4
2/11/2022		4.1		
8/30/2022			3.5	4.4
8/31/2022	3.5	4.4		

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

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
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					
11/18/2009		0.0036					
3/3/2010		<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					
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				
3/4/2012						<0.005	
3/5/2012		<0.005	<0.005		<0.005		<0.005
3/6/2012				<0.005			
9/5/2012			<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
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		
8/14/2013						<0.005	0.0016
2/4/2014			<0.005	<0.005		<0.005	
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			
2/2/2015			0.0028	<0.005		<0.005	
2/3/2015					0.0014		0.0017
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			
2/16/2016		<0.005	<0.005		0.0017	<0.005	0.0028
2/17/2016				<0.005			
8/31/2016		<0.005	0.0012 (J)	<0.005	0.0013 (J)		
9/1/2016						<0.005	0.0021 (J)
11/28/2016		<0.005		<0.005			
11/29/2016			0.0009 (J)				
11/30/2016					0.001 (J)	0.0013 (J)	
12/1/2016							0.0017 (J)
2/22/2017		<0.005		<0.005			

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

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
2/23/2017			0.001 (J)		0.0012 (J)		
2/24/2017						<0.005	0.0018 (J)
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)
7/17/2017		<0.005					0.0017 (J)
7/18/2017			0.0008 (J)	<0.005	0.0009 (J)	0.0011 (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)		
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		<0.005	
6/13/2019			0.0009 (J)		0.00073 (J)		0.0018 (J)
8/19/2019		<0.005				0.00051 (J)	
8/20/2019			0.0011 (J)	<0.005			
8/21/2019					0.001 (J)		0.0024 (J)
10/8/2019		<0.005					
10/9/2019			0.0012 (J)	0.00059 (J)			0.0024 (J)
10/10/2019					0.0014 (J)	0.00057 (J)	
3/17/2020		<0.005	0.001 (J)		0.0013 (J)		
3/18/2020				0.0004 (J)		<0.005	0.0023 (J)
8/26/2020		<0.005					
8/27/2020			0.0013 (J)				0.0022 (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)
3/1/2021			0.0012 (J)	<0.005		<0.005	
3/2/2021		<0.005			0.001 (J)		0.0021 (J)
8/18/2021			0.0015 (J)	<0.005	<0.005	<0.005	0.0023 (J)
8/20/2021		<0.005					
2/8/2022		<0.005	0.002 (J)		0.0011 (J)	<0.005	
2/9/2022				<0.005			0.0022 (J)
8/30/2022		<0.005	0.0015 (J)		<0.005	<0.005	0.0019 (J)
8/31/2022				<0.005			

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
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	0.0018						
3/5/2012	<0.005						
9/5/2012	0.0013						
2/5/2013	<0.005						
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)						
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				
7/25/2016							<0.005
7/26/2016		<0.005				<0.005	
7/27/2016			0.0008 (J)	0.0007 (J)	0.0006 (J)		
9/1/2016	0.0015 (J)						
9/13/2016						<0.005	<0.005
9/15/2016		<0.005					
9/16/2016			<0.005		<0.005		
9/19/2016				<0.005			
11/1/2016						<0.005	
11/2/2016		<0.005					
11/3/2016			<0.005	<0.005	<0.005		
11/4/2016							<0.005
11/29/2016	0.0014 (J)						
1/10/2017		<0.005					
1/11/2017			<0.005	<0.005	<0.005	<0.005	
1/16/2017							<0.005
2/23/2017	0.0017 (J)						
3/1/2017				0.0012 (J)	<0.005		
3/2/2017			0.001 (J)			0.0009 (J)	0.0004 (J)
3/8/2017		<0.005					
4/26/2017		<0.005		0.0005 (J)	0.0003 (J)		
4/27/2017						<0.005	<0.005
5/2/2017			0.0007 (J)				
5/10/2017	0.0015 (J)						
6/27/2017						<0.005	<0.005
6/28/2017				0.0006 (J)	<0.005		
6/29/2017			0.0006 (J)				
6/30/2017		<0.005					
7/18/2017	0.0012 (J)						
10/18/2017	0.0012 (J)						
2/19/2018	<0.005						
3/27/2018		<0.005					<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
3/28/2018			<0.005	<0.005	<0.005		
3/29/2018						<0.005	
8/6/2018	<0.005						
2/25/2019	<0.005						
2/26/2019		<0.005					
2/27/2019						<0.005	<0.005
3/5/2019			<0.005		<0.005		
3/6/2019				<0.005			
3/28/2019						<0.005	0.0021 (J)
3/29/2019		<0.005					
6/13/2019	0.00089 (J)						
8/20/2019	0.0017 (J)						
9/24/2019						0.00072 (J)	0.0028 (J)
9/25/2019		<0.005					
10/8/2019	0.0014 (J)						
2/10/2020						0.00042 (J)	<0.005
2/11/2020			0.00087 (J)	0.001 (J)	0.00088 (J)		
2/12/2020		<0.005					
3/17/2020	0.0013 (J)						
3/18/2020		<0.005					0.00044 (J)
3/19/2020						0.00084 (J)	
3/24/2020			0.00087 (J)	0.00095 (J)	0.0011 (J)		
8/27/2020	0.0012 (J)						
9/23/2020	0.0015 (J)		0.00098 (J)	0.00092 (J)	0.0012 (J)	0.00062 (J)	0.00058 (J)
9/25/2020		<0.005					
2/9/2021				0.00083 (J)	0.0013 (J)		
2/10/2021		<0.005					
2/12/2021						<0.005	<0.005
3/2/2021		<0.005					
3/3/2021	0.0014 (J)		0.00082 (J)	0.00087 (J)	0.001 (J)	<0.005	<0.005
8/18/2021	0.0015 (J)						
8/19/2021		<0.005				<0.005	<0.005
8/26/2021					<0.005		
8/27/2021			<0.005	<0.005			
2/8/2022	0.0017 (J)						
2/9/2022			<0.005	<0.005	0.0014 (J)	<0.005	<0.005
2/10/2022		<0.005					
8/30/2022	0.0016 (J)		<0.005	<0.005	0.0015 (J)	0.0011 (J)	
8/31/2022		<0.005					<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016							<0.005
6/2/2016				<0.005		0.0013 (J)	
6/7/2016	<0.005	<0.005					
7/25/2016				<0.005			<0.005
7/26/2016						<0.005	
7/27/2016	0.0005 (J)						
7/28/2016		<0.005					
9/14/2016			<0.005				<0.005
9/15/2016						<0.005	
9/19/2016	<0.005	<0.005		<0.005			
11/1/2016				<0.005		<0.005	<0.005
11/2/2016	<0.005						
11/3/2016		<0.005					
11/4/2016			<0.005				
12/15/2016			<0.005				
1/11/2017						<0.005	<0.005
1/13/2017	<0.005	<0.005					
1/16/2017			<0.005	<0.005			
2/21/2017				<0.005			
3/1/2017							0.0004 (J)
3/2/2017						0.0006 (J)	
3/3/2017			0.0005 (J)				
3/6/2017	<0.005	<0.005					
4/26/2017	0.0007 (J)	<0.005		0.0016 (J)		<0.005	<0.005
4/28/2017			0.0004 (J)				
5/26/2017			<0.005				
6/28/2017			<0.005			<0.005	<0.005
6/29/2017	0.0005 (J)	<0.005					
6/30/2017				<0.005			
10/11/2017					<0.005		
11/20/2017					<0.005		
1/11/2018					<0.005		
2/20/2018					<0.005		
3/27/2018				<0.005			
3/28/2018			<0.005			<0.005	<0.005
3/29/2018	<0.005	<0.005					
4/3/2018					<0.005		
6/28/2018					<0.005		
8/7/2018					<0.005		
9/24/2018					<0.005		
2/26/2019				<0.005			
2/27/2019			<0.005			<0.005	<0.005
3/5/2019	<0.005	<0.005					
3/29/2019			<0.005				
4/1/2019				<0.005		<0.005	<0.005
8/21/2019					<0.005		
9/24/2019			<0.005				
9/25/2019				<0.005		0.0014 (J)	0.0019 (J)
10/9/2019					<0.005		
2/11/2020			<0.005				<0.005
2/12/2020	0.00045 (J)	<0.005		<0.005	<0.005	<0.005	
3/19/2020			0.00048 (J)	<0.005		<0.005	<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
3/24/2020	0.00077 (J)	<0.005					
3/25/2020					<0.005		
9/23/2020			<0.005			<0.005	<0.005
9/24/2020	0.00076 (J)	<0.005		<0.005	<0.005		
2/9/2021	0.00056 (J)	<0.005					
2/10/2021			<0.005		<0.005	<0.005	<0.005
2/11/2021				<0.005			
3/1/2021				<0.005			
3/3/2021	<0.005		<0.005			<0.005	<0.005
3/4/2021		<0.005			<0.005		
8/19/2021				<0.005		<0.005	
8/26/2021					<0.005		
8/27/2021	<0.005		<0.005				<0.005
9/1/2021		<0.005					
2/8/2022					<0.005		
2/9/2022	<0.005	<0.005	<0.005			<0.005	<0.005
2/11/2022				<0.005			
8/30/2022		<0.005	<0.005				
8/31/2022	<0.005			<0.005	<0.005	<0.005	<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016			<0.005	<0.005	<0.005
7/26/2016			<0.005	<0.005	<0.005
8/30/2016		<0.005			
9/14/2016			<0.005	<0.005	<0.005
11/2/2016			<0.005	<0.005	
11/4/2016					<0.005
11/14/2016		0.0093 (J)			
1/12/2017				<0.005	<0.005
1/13/2017			<0.005		
2/24/2017		<0.005			
3/6/2017			<0.005		
3/7/2017				<0.005	<0.005
5/1/2017			<0.005	0.0004 (J)	
5/2/2017					<0.005
5/8/2017		<0.005			
6/27/2017				<0.005	<0.005
6/29/2017			<0.005		
7/11/2017		<0.005			
10/10/2017		<0.005			
10/12/2017	<0.005				
11/20/2017	<0.005				
1/10/2018	<0.005				
2/19/2018	<0.005				
3/29/2018			<0.005	<0.005	<0.005
4/2/2018		<0.005			
4/3/2018	<0.005				
6/28/2018	<0.005				
8/7/2018	<0.005				
9/19/2018		<0.005			
9/24/2018	<0.005				
3/4/2019			<0.005	<0.005	<0.005
8/20/2019		<0.005			
8/21/2019	0.00053 (J)				
10/9/2019	0.0012 (J)				
2/12/2020	0.00065 (J)		<0.005	<0.005	0.00043 (J)
3/24/2020	0.00055 (J)			<0.005	0.0014 (J)
3/25/2020			0.00058 (J)		
8/27/2020		<0.005			
9/22/2020		<0.005	<0.005	0.0011 (J)	<0.005
9/24/2020	<0.005				
2/8/2021				<0.005	<0.005
2/9/2021			<0.005		
2/10/2021	<0.005				
3/1/2021		<0.005			
3/2/2021				<0.005	<0.005
3/3/2021			0.0013 (J)		
3/4/2021	<0.005				
8/19/2021		<0.005			
8/26/2021			<0.005	<0.005	<0.005
9/3/2021	<0.005				
2/8/2022	<0.005	<0.005			
2/10/2022				<0.005	<0.005

Time Series

Constituent: Chromium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
2/11/2022			<0.005		
8/30/2022				<0.005	<0.005
8/31/2022	<0.005	<0.005	<0.005		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

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
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					
11/18/2009		<0.005					
3/3/2010		0.0027					
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					
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				
3/4/2012						0.0032	
3/5/2012		0.0032	<0.005		<0.005		<0.005
3/6/2012				0.021			
9/5/2012			0.0018		<0.005		<0.005
9/10/2012		<0.005				0.0067	
9/11/2012				0.017			
2/5/2013			0.0013				<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		
8/14/2013						0.0014	<0.005
2/4/2014			<0.005	0.019		<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			
2/2/2015			0.0015	0.022		<0.005	
2/3/2015					<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			
2/16/2016		0.0027	<0.005		<0.005	0.0082	<0.005
2/17/2016				0.024			
8/31/2016		0.0053 (J)	0.0006 (J)	0.0239	<0.005		
9/1/2016						0.0023 (J)	<0.005
11/28/2016		0.0036 (J)		0.0189			
11/29/2016			<0.005				
11/30/2016					<0.005	0.0008 (J)	
12/1/2016							<0.005
2/22/2017		0.0049 (J)		0.0184			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

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
2/23/2017			0.0009 (J)		<0.005		
2/24/2017						0.0025 (J)	<0.005
5/8/2017		0.0059 (J)					
5/9/2017			0.0008 (J)		<0.005		
5/10/2017				0.0213		<0.005	<0.005
7/17/2017		0.0046 (J)					<0.005
7/18/2017			0.0032 (J)	0.0261	<0.005	0.0005 (J)	
10/16/2017		0.0034 (J)					<0.005
10/17/2017			0.0007 (J)	0.0182		0.0006 (J)	
10/18/2017					<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		0.003 (J)					
8/7/2018			<0.005		<0.005		<0.005
8/8/2018				0.014		0.001 (J)	
2/25/2019		0.001 (J)					
2/26/2019			<0.005	0.029	<0.005	<0.005	<0.005
6/12/2019		0.003 (J)		0.013		0.00078 (J)	
6/13/2019			0.00033 (J)		0.01		<0.005
8/19/2019		0.0035 (J)				0.001 (J)	
8/20/2019			0.00079 (J)	0.014			
8/21/2019					0.0016 (J)		0.00034 (J)
10/8/2019		0.0039 (J)					
10/9/2019			0.00064 (J)	0.024			0.00031 (J)
10/10/2019					<0.005	0.00099 (J)	
3/17/2020		0.003 (J)	0.00054 (J)		0.011		
3/18/2020				0.019		0.0031 (J)	0.00044 (J)
8/26/2020		0.2 (o)					
8/27/2020			0.00081 (J)				<0.005
8/28/2020				0.0072	0.0041 (J)	0.00049 (J)	
9/22/2020		0.16 (o)	0.0008 (J)	0.0054	0.0021 (J)	0.00039 (J)	
9/23/2020							<0.005
3/1/2021			0.00083 (J)	0.00074 (J)		0.0016 (J)	
3/2/2021		0.21 (o)			0.0086		0.00039 (J)
8/18/2021			0.0014 (J)	0.00066 (J)	0.01	0.0027 (J)	0.00053 (J)
8/20/2021		0.074 (o)					
2/8/2022		0.072 (o)	0.0019 (J)		0.0074	0.0034 (J)	
2/9/2022				0.00085 (J)			0.00064 (J)
8/30/2022		0.075 (o)	0.00087 (J)		0.0021 (J)	0.002 (J)	0.00077 (J)
8/31/2022				0.0036 (J)			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
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						
6/1/2016						<0.005	0.00082 (J)
6/2/2016		<0.005					
6/6/2016				<0.005	0.00061 (J)		
6/7/2016			<0.005				
7/25/2016							0.0008 (J)
7/26/2016		<0.005				<0.005	
7/27/2016			<0.005	<0.005	0.0004 (J)		
9/1/2016	<0.005						
9/13/2016						<0.005	0.0009 (J)
9/15/2016		<0.005					
9/16/2016			<0.005		0.0008 (J)		
9/19/2016				<0.005			
11/1/2016						<0.005	
11/2/2016		<0.005					
11/3/2016			<0.005	<0.005	<0.005		
11/4/2016							0.0025 (J)
11/29/2016	<0.005						
1/10/2017		<0.005					
1/11/2017			<0.005	<0.005	<0.005	<0.005	
1/16/2017							0.0027 (J)
2/23/2017	<0.005						
3/1/2017				<0.005	<0.005		
3/2/2017			<0.005			<0.005	0.0022 (J)
3/8/2017		<0.005					
4/26/2017		<0.005		<0.005	<0.005		
4/27/2017						<0.005	0.0018 (J)
5/2/2017			<0.005				
5/10/2017	<0.005						
6/27/2017						<0.005	0.0023 (J)
6/28/2017				<0.005	<0.005		
6/29/2017			<0.005				
6/30/2017		<0.005					
7/18/2017	<0.005						
10/18/2017	<0.005						
2/19/2018	<0.005						
3/27/2018		<0.005					<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
3/28/2018			<0.005	<0.005	<0.005		
3/29/2018						<0.005	
6/5/2018						<0.005	
6/6/2018							<0.005
6/7/2018				<0.005			
6/8/2018		<0.005					
6/11/2018			<0.005		<0.005		
8/6/2018	<0.005						
9/25/2018			<0.005	<0.005	<0.005		
10/1/2018		<0.005				<0.005	0.00059 (J)
2/25/2019	<0.005						
2/26/2019		<0.005					
2/27/2019						<0.005	0.00064 (J)
3/5/2019			<0.005		<0.005		
3/6/2019				<0.005			
3/28/2019						<0.005	0.00091 (J)
3/29/2019		<0.005					
4/2/2019			<0.005				
4/3/2019				<0.005	<0.005		
6/13/2019	<0.005						
8/20/2019	<0.005						
9/24/2019						<0.005	0.0013 (J)
9/25/2019		<0.005	<0.005				
9/26/2019				<0.005	<0.005		
10/8/2019	<0.005						
2/10/2020						<0.005	0.0016 (J)
2/11/2020			<0.005	<0.005	<0.005		
2/12/2020		<0.005					
3/17/2020	<0.005						
3/18/2020		<0.005					0.00087 (J)
3/19/2020						<0.005	
3/24/2020			<0.005	<0.005	<0.005		
8/27/2020	<0.005						
9/23/2020	<0.005		<0.005	<0.005	<0.005	<0.005	0.0013 (J)
9/25/2020		<0.005					
2/9/2021				<0.005	<0.005		
2/10/2021		<0.005					
2/12/2021						0.00086 (J)	0.0028 (J)
3/2/2021		<0.005					
3/3/2021	<0.005		<0.005	<0.005	<0.005	<0.005	0.003 (J)
8/18/2021	<0.005						
8/19/2021		<0.005				0.00055 (J)	0.0017 (J)
8/26/2021					<0.005		
8/27/2021			<0.005	<0.005			
2/8/2022	<0.005						
2/9/2022			<0.005	<0.005	<0.005	0.00072 (J)	0.0023 (J)
2/10/2022		<0.005					
8/30/2022	<0.005		<0.005	<0.005	<0.005	<0.005	
8/31/2022		<0.005					0.00085 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016							<0.005
6/2/2016				0.035		<0.005	
6/7/2016	<0.005	0.0056					
7/25/2016				0.0312			<0.005
7/26/2016						<0.005	
7/27/2016	<0.005						
7/28/2016		0.0032 (J)					
9/14/2016			<0.005				<0.005
9/15/2016						<0.005	
9/19/2016	<0.005	0.0047 (J)		0.0275			
11/1/2016				0.0255		<0.005	<0.005
11/2/2016	<0.005						
11/3/2016		0.013					
11/4/2016			<0.005				
12/15/2016			<0.005				
1/11/2017						<0.005	<0.005
1/13/2017	<0.005	0.011					
1/16/2017			<0.005	0.0245			
2/21/2017				0.0272			
3/1/2017							<0.005
3/2/2017						<0.005	
3/3/2017			<0.005				
3/6/2017	<0.005	0.011					
4/26/2017	<0.005	0.009 (J)		0.0244		<0.005	<0.005
4/28/2017			<0.005				
5/26/2017			<0.005				
6/28/2017			<0.005			<0.005	<0.005
6/29/2017	<0.005	0.0093 (J)					
6/30/2017				0.0233			
10/11/2017					<0.005		
11/20/2017					<0.005		
1/11/2018					<0.005		
2/20/2018					<0.005		
3/27/2018				0.023			
3/28/2018			<0.005			<0.005	<0.005
3/29/2018	<0.005	<0.005					
4/3/2018					<0.005		
6/5/2018		0.0041 (J)					
6/6/2018	<0.005						
6/7/2018			<0.005			<0.005	
6/8/2018							<0.005
6/11/2018				0.023			
6/28/2018					<0.005		
8/7/2018					<0.005		
9/24/2018					<0.005		
9/25/2018	<0.005	0.0044 (J)					
10/1/2018			<0.005			<0.005	<0.005
10/2/2018				0.022			
2/26/2019				0.021			
2/27/2019			<0.005			<0.005	<0.005
3/5/2019	<0.005	0.0039 (J)					
3/29/2019			<0.005				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
4/1/2019				0.022		<0.005	<0.005
4/2/2019		0.0039 (J)					
4/3/2019	<0.005						
8/21/2019					0.00034 (J)		
9/24/2019		0.0032 (J)	<0.005				
9/25/2019	<0.005			0.016		<0.005	<0.005
10/9/2019					<0.005		
2/11/2020			<0.005				<0.005
2/12/2020	<0.005	0.0081		0.014	0.00034 (J)	<0.005	
3/19/2020			<0.005	0.014		<0.005	<0.005
3/24/2020	<0.005	0.0061					
3/25/2020					0.00034 (J)		
9/23/2020			<0.005			<0.005	<0.005
9/24/2020	<0.005	0.0079		0.0064	0.00053 (J)		
2/9/2021	<0.005	0.009					
2/10/2021			<0.005		0.00098 (J)	<0.005	<0.005
2/11/2021				0.0078			
3/1/2021				0.0061			
3/3/2021	<0.005		<0.005			<0.005	<0.005
3/4/2021		0.0065			0.00071 (J)		
8/19/2021				0.0052		<0.005	
8/26/2021					0.0011 (J)		
8/27/2021	<0.005		<0.005				<0.005
9/1/2021		0.0068					
2/8/2022					0.0012 (J)		
2/9/2022	<0.005	0.0078	<0.005			<0.005	<0.005
2/11/2022				0.0038 (J)			
8/30/2022		0.0066	<0.005				
8/31/2022	<0.005			0.004 (J)	0.00085 (J)	<0.005	<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016			0.00082 (J)	<0.005	<0.005
7/26/2016			0.0012 (J)	<0.005	<0.005
8/30/2016		0.0073 (J)			
9/14/2016			0.0006 (J)	<0.005	<0.005
11/2/2016			<0.005	<0.005	
11/4/2016					<0.005
11/14/2016		0.0115			
1/12/2017				<0.005	<0.005
1/13/2017			0.0029 (J)		
2/24/2017		0.0106			
3/6/2017			0.0006 (J)		
3/7/2017				<0.005	<0.005
5/1/2017			<0.005	<0.005	
5/2/2017					<0.005
5/8/2017		0.0099 (J)			
6/27/2017				<0.005	<0.005
6/29/2017			0.0005 (J)		
7/11/2017		0.0096 (J)			
10/10/2017		0.0036 (J)			
10/12/2017	<0.005				
11/20/2017	<0.005				
1/10/2018	<0.005				
2/19/2018	<0.005				
3/29/2018			<0.005	<0.005	<0.005
4/2/2018		<0.005			
4/3/2018	<0.005				
6/6/2018				<0.005	
6/7/2018			0.00058 (J)		<0.005
6/28/2018	<0.005				
8/7/2018	<0.005				
9/19/2018		0.0036 (J)			
9/24/2018	<0.005				
9/26/2018			<0.005	<0.005	<0.005
3/4/2019			<0.005	<0.005	<0.005
4/3/2019			0.00083 (J)	<0.005	<0.005
8/20/2019		0.00092 (J)			
8/21/2019	<0.005				
9/24/2019				<0.005	<0.005
9/25/2019			<0.005		
10/8/2019		0.0014 (J)			
10/9/2019	<0.005				
2/12/2020	<0.005		<0.005	0.00037 (J)	<0.005
3/17/2020		0.0017 (J)			
3/24/2020	<0.005			0.00035 (J)	<0.005
3/25/2020			0.00056 (J)		
8/27/2020		0.0011 (J)			
9/22/2020		0.00097 (J)	<0.005	<0.005	<0.005
9/24/2020	<0.005				
2/8/2021				<0.005	<0.005
2/9/2021			<0.005		
2/10/2021	<0.005				
3/1/2021		0.001 (J)			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
3/2/2021				<0.005	<0.005
3/3/2021			<0.005		
3/4/2021	<0.005				
8/19/2021		0.00099 (J)			
8/26/2021			0.00042 (J)	<0.005	<0.005
9/3/2021	<0.005				
2/8/2022	<0.005	0.0013 (J)			
2/10/2022				<0.005	<0.005
2/11/2022			<0.005		
8/30/2022				<0.005	<0.005
8/31/2022	<0.005	0.00096 (J)	<0.005		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	1.2						
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)	
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)	
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)
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)	
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)		
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	
10/8/2019	1.32 (U)						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 (U)	1.4		2.84			2.5
3/18/2020			1.3		0.866 (U)	0.788 (U)	
8/26/2020	1.75 (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	0.688 (U)	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	0.948 (U)			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)
8/20/2021	0.528 (U)						
2/8/2022	0.462 (U)	0.649 (U)		0.389 (U)	0.319 (U)		0.413 (U)
2/9/2022			0.42 (U)			0.48 (U)	
8/30/2022	1.52	0.476 (U)		0.884 (U)	0.433 (U)	1.36	0.861 (U)
8/31/2022			1.55				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					0.321 (U)	0.42	
6/2/2016	0.329 (U)						
6/6/2016			0.0804 (U)	0.301 (U)			
6/7/2016		0.158 (U)					0.0191 (U)
7/25/2016						1.83	
7/26/2016	1.51				0.707 (U)		
7/27/2016		0.0354 (U)	0.206 (U)	0.196 (U)			0.541 (U)
9/13/2016					1.22	0.841	
9/15/2016	1.04 (U)						
9/16/2016		1.04		0.915 (U)			
9/19/2016			1.58				0.826 (U)
11/1/2016					0.805 (U)		
11/2/2016	0.496 (U)						0.791 (U)
11/3/2016		0.314 (U)	0.342 (U)	0.928 (U)			
11/4/2016						0.166 (U)	
1/10/2017	0.376 (U)						
1/11/2017		0.34 (U)	0.365 (U)	0.502 (U)	0.705 (U)		
1/13/2017							0.296 (U)
1/16/2017						0	
3/1/2017			0.395 (U)	0.202 (U)			
3/2/2017		0.746 (U)			0.251 (U)	0.504 (U)	
3/6/2017							0.518 (U)
3/8/2017	0.0745 (U)						
4/26/2017	0.282 (U)		0.507 (U)	0.264 (U)			0.282 (U)
4/27/2017					1.08	0.593 (U)	
5/2/2017		0.111 (U)					
6/27/2017					1.02 (U)	0.657 (U)	
6/28/2017			0.892	0.636 (U)			
6/29/2017		0.576 (U)					1.12
6/30/2017	0.994						
3/27/2018	0.189 (U)					0.39 (U)	
3/28/2018		0.438 (U)	0.92 (U)	0.56 (U)			
3/29/2018					0.503 (U)		1.73
6/5/2018					0.771 (U)		
6/6/2018						2.8	0.694 (U)
6/7/2018			0.668 (U)				
6/8/2018	0.218 (U)						
6/11/2018		0.901 (U)		0.649 (U)			
9/25/2018		0.68 (U)	0.141 (U)	0.574 (U)			0.772 (U)
10/1/2018	1.24				0.783 (U)	1.06 (U)	
2/26/2019	0.202 (U)						
2/27/2019					1.21 (U)	0.637 (U)	
3/5/2019		0.272 (U)		0.474 (U)			0.84 (U)
3/6/2019			0.714 (U)				
3/28/2019					1.13 (U)	0.125 (U)	
3/29/2019	0 (U)						
4/2/2019		0.847 (U)					
4/3/2019			0.385 (U)	0.429 (U)			1.01
9/24/2019					1.22 (U)	0.949 (U)	
9/25/2019	0.707 (U)	0.412 (U)					1.18 (U)
9/26/2019			0.386 (U)	0.222 (U)			
2/10/2020					1.41	1.25 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
2/11/2020		0.461 (U)	1.48	0.597 (U)			
2/12/2020	1.07 (U)						1.11 (U)
3/18/2020	0.207 (U)					0.458 (U)	
3/19/2020					1.1		
3/24/2020		0.534 (U)	0.632 (U)	0.262 (U)			1.88
9/23/2020		0.466 (U)	0.887 (U)	0.43 (U)	1.35 (U)	0.00884 (U)	
9/24/2020							0.611 (U)
9/25/2020	0.603 (U)						
2/9/2021		0.529 (U)	0.314 (U)	0.259 (U)			0.284 (U)
2/10/2021	0.353 (U)						
2/12/2021					0.366 (U)	0.458 (U)	
3/2/2021	0.71 (U)						
3/3/2021		0.59 (U)	0.565 (U)	0.352 (U)	0.492 (U)	0.105 (U)	0.133 (U)
8/19/2021	0.786 (U)				1.17 (U)	0.0732 (U)	
8/26/2021				0.686 (U)			
8/27/2021		0.9 (U)	0.761 (U)				0.779 (U)
2/9/2022		0.133 (U)	0.571 (U)	0.0618 (U)	1.19	0.422 (U)	0.504 (U)
2/10/2022	0 (U)						
8/30/2022		1.08	1.01	0.611 (U)	0.827		
8/31/2022	0.421 (U)					0.49 (U)	0.184 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						0.896	
6/2/2016			0.0652 (U)		2.51		
6/7/2016	0.347						
7/25/2016			3.01			2.28	
7/26/2016					3.82		
7/28/2016	0.815 (U)						
9/14/2016		0.98 (U)				0.821 (U)	
9/15/2016					4.24		
9/19/2016	0.862 (U)		0.871 (U)				
11/1/2016			0.307 (U)		3.92	0.585 (U)	
11/3/2016	0.797 (U)						
11/4/2016		0.277 (U)					
12/15/2016		0.071 (U)					
1/11/2017					2.52	1.22	
1/13/2017	0.72 (U)						
1/16/2017		0.44 (U)	0.284 (U)				
2/21/2017			0.503 (U)				
3/1/2017						0.877 (U)	
3/2/2017					3.13		
3/3/2017		0.448 (U)					
3/6/2017	0.518 (U)						
4/26/2017	1.13 (U)		0.204 (U)		2.35	0.672 (U)	
4/28/2017		0.548 (U)					
5/26/2017		0 (U)					
6/28/2017		0.608 (U)			2.6	1.07 (U)	
6/29/2017	0.841 (U)						
6/30/2017			0.738 (U)				
10/11/2017				0.586 (U)			
10/12/2017							1.49
11/20/2017				0.816 (U)			0.918 (U)
1/10/2018							1.05
1/11/2018				0.841 (U)			
2/19/2018							2.05
2/20/2018				1.58			
3/27/2018			0.31 (U)				
3/28/2018		0.412 (U)			3	0.65 (U)	
3/29/2018	1.91						
4/3/2018				0.385 (U)			0.68 (U)
6/5/2018	1.39						
6/7/2018		0.73 (U)			2.79		
6/8/2018						1.89	
6/11/2018			0.608 (U)				
6/28/2018				0.283 (U)			1.28
8/7/2018				0.332 (U)			1.16
9/24/2018				0.767 (U)			0.965 (U)
9/25/2018	1.62						
10/1/2018		0.756 (U)			3.14	1.58	
10/2/2018			0.97 (U)				
2/26/2019			0.524 (U)				
2/27/2019		0.635 (U)			3.79	3.67	
3/5/2019	0.985 (U)						
3/29/2019		0.224 (U)					

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
4/1/2019			1.02 (U)		4.33	2.28	
4/2/2019	1.42						
8/21/2019				1.01 (U)			1.24 (U)
9/24/2019	1.35	0.429 (U)					
9/25/2019			1.02 (U)		4.2	1.6	
10/8/2019				1.02 (U)			0.866 (U)
2/11/2020		0.817 (U)			3.87	1.85	
2/12/2020	1.61		0.301 (U)	0.45 (U)			1.83
3/19/2020		0.715 (U)	1		3.96	2.2	
3/24/2020	1.24 (U)						1.27 (U)
3/25/2020				0.377 (U)			
9/23/2020		0.565 (U)			4.14	1.14 (U)	
9/24/2020	1.8		0.684 (U)	0.568 (U)			0.634 (U)
2/9/2021	1.24						
2/10/2021		1.04 (U)		0.518 (U)	3.65	2.46	0.783 (U)
2/11/2021			0.678 (U)				
3/1/2021			0.412 (U)				
3/3/2021	1.2	0.459 (U)			3.58	2.03	
3/4/2021				0.636 (U)			0.818 (U)
8/19/2021			0.234 (U)		3.53		
8/26/2021				0.674 (U)			
8/27/2021		0.409 (U)				1.34	
9/1/2021	1.86						
9/3/2021							0.971 (U)
2/8/2022				0.834			0.534 (U)
2/9/2022	1.94	0.894 (U)			3.28	1.91	
2/10/2022			0.268 (U)				
8/30/2022	1.27	0.699 (U)					
8/31/2022			0.506 (U)	0.937	2.12	1.33	0.513 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		0.721	5.11	0.614
7/26/2016		1.26	6.92	1.47
8/30/2016	1.09			
9/14/2016		0.901 (U)	3.96	1.27
11/2/2016		1.09 (U)	4.53	
11/4/2016				0.434 (U)
12/15/2016	1 (U)			
1/12/2017			4.43	0.202 (U)
1/13/2017		1.19		
2/24/2017	0.504 (U)			
3/6/2017		0.669 (U)		
3/7/2017			4.8	0.0674 (U)
5/1/2017		0.803 (U)	4.16	
5/2/2017				0.444 (U)
5/8/2017	0.455 (U)			
6/27/2017			2.8	0.77 (U)
6/29/2017		1.35		
7/11/2017	0.471 (U)			
10/10/2017	0.649 (U)			
3/29/2018		0.703 (U)	3.42	0.648 (U)
4/2/2018	0.512 (U)			
6/6/2018			3.99	
6/7/2018		0.628 (U)		0.745 (U)
9/19/2018	0.789 (U)			
9/26/2018		0.756 (U)	2.73	0.377 (U)
3/4/2019		1.21 (U)	4.43	1 (U)
4/3/2019		1.07 (U)	4.79	0.43 (U)
8/20/2019	2.44			
9/24/2019			4.06	0.699 (U)
9/25/2019		1.86		
10/8/2019	1.72			
2/12/2020		1.25	4.02	0.913 (U)
3/17/2020	1.22 (U)			
3/24/2020			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)
2/8/2021			2.89	0.613 (U)
2/9/2021		0.626 (U)		
3/1/2021	1.2			
3/2/2021			1.67	0.579 (U)
3/3/2021		1		
8/19/2021	1.07 (U)			
8/26/2021		1.17 (U)	4.68	0.798 (U)
2/8/2022	0.4 (U)			
2/10/2022			3.33	0.375 (U)
2/11/2022		0.996		
8/30/2022			5.34	0.72 (U)
8/31/2022	0.714 (U)	0.962		

Time Series

Constituent: Copper (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

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
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					
11/18/2009		0.0029					
3/3/2010		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					
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				
3/4/2012						<0.005	
3/5/2012		<0.005	<0.005		<0.005		<0.005
3/6/2012				<0.005			
9/5/2012			<0.005		0.016		<0.005
9/10/2012		<0.005				<0.005	
9/11/2012				<0.005			
2/5/2013			<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		
8/14/2013						<0.005	<0.005
2/4/2014			<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			
2/2/2015			0.0031 (J)	<0.005		<0.005	
2/3/2015					<0.005		<0.005
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			
2/16/2016		0.0011 (J)	<0.005		0.00082 (J)	0.00088 (J)	<0.005
2/17/2016				<0.005			
2/22/2017		0.0011 (J)		<0.005			
2/23/2017			<0.005		<0.005		
2/24/2017						<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					

Time Series

Constituent: Copper (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

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
8/7/2018			<0.005		<0.005		<0.005
8/8/2018				<0.005		<0.005	
2/25/2019		<0.005					
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)
10/8/2019		0.00041 (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)		
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
3/1/2021			<0.005	<0.005		<0.005	
3/2/2021		0.0027 (J)			<0.005		<0.005
8/18/2021			0.00067 (J)	<0.005	<0.005	<0.005	0.0022 (J)
8/20/2021		0.0012 (J)					
2/8/2022		0.0012 (J)	0.00072 (J)		<0.005	<0.005	
2/9/2022				<0.005			0.0014 (J)
8/30/2022		<0.005	<0.005		<0.005	<0.005	<0.005
8/31/2022				<0.005			

Time Series

Constituent: Copper (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	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)
2/8/2022	0.0008 (J)
8/30/2022	<0.005

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	0.14 (J)	0.05 (J)	0.08 (J)	0.07 (J)			
9/1/2016					0.15 (J)	0.03 (J)	0.28 (J)
11/28/2016	0.12 (J)		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	0.09 (J)		0.04 (J)				
2/23/2017		0.06 (J)		0.04 (J)			0.07 (J)
2/24/2017					0.08 (J)	0.03 (J)	
5/8/2017	0.05 (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	0.14 (J)					0.37	
7/18/2017		<0.1	<0.1	<0.1	<0.1		<0.1
10/16/2017	0.12 (J)					<0.1	
10/17/2017		<0.1	<0.1		<0.1		
10/18/2017				0.22 (J)			<0.1
2/19/2018	0.17						<0.1
2/20/2018			<0.1		<0.1		
2/21/2018		<0.1		<0.1		<0.1	
8/6/2018	0.087 (J)						<0.1
8/7/2018		<0.1		<0.1		<0.1	
8/8/2018			<0.1		<0.1		
2/25/2019	0.14 (J)						<0.1
2/26/2019		<0.1	<0.1	<0.1	<0.1	0.035 (J)	
6/12/2019	0.12 (J)		0.58		<0.1		
6/13/2019		<0.1		0.58		<0.1	<0.1
8/19/2019	<0.1				<0.1		
8/20/2019		<0.1	<0.1				<0.1
8/21/2019				0.037 (J)		<0.1	
10/8/2019	0.052 (J)						<0.1
10/9/2019		<0.1	<0.1			0.35	
10/10/2019				<0.1	<0.1		
3/17/2020	0.053 (J)	<0.1		0.1 (J)			<0.1
3/18/2020			<0.1		<0.1	<0.1	
8/26/2020	0.068 (J)						
8/27/2020		<0.1				0.064 (J)	<0.1
8/28/2020			<0.1	0.097 (J)	<0.1		
9/22/2020	0.058 (J)	<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	0.073 (J)			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
8/20/2021	0.06 (J)						
2/8/2022	0.064 (J)	<0.1		0.16	<0.1		<0.1
2/9/2022			<0.1			0.053 (J)	
8/30/2022	0.086 (J)	<0.1		0.14	0.05 (J)	0.11	0.064 (J)
8/31/2022			<0.1				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (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)	
7/26/2016	0.02 (J)				0.08 (J)		
7/27/2016		<0.1	<0.1	<0.1			<0.1
9/13/2016					0.11 (J)	<0.1	
9/15/2016	<0.1						
9/16/2016		<0.1		<0.1			
9/19/2016			<0.1				<0.1
11/1/2016					<0.1		
11/2/2016	<0.1						<0.1
11/3/2016		<0.1	<0.1	<0.1			
11/4/2016						<0.1	
1/10/2017	<0.1						
1/11/2017		<0.1	<0.1	<0.1	0.05 (J)		
1/13/2017							<0.1
1/16/2017						<0.1	
3/1/2017			<0.1	<0.1			
3/2/2017		<0.1			<0.1	<0.1	
3/6/2017							<0.1
3/8/2017	<0.1						
4/26/2017	<0.1		<0.1	<0.1			<0.1
4/27/2017					0.04 (J)	0.01 (J)	
5/2/2017		<0.1					
6/27/2017					<0.1	<0.1	
6/28/2017			<0.1	<0.1			
6/29/2017		<0.1					<0.1
6/30/2017	<0.1						
10/3/2017					<0.1	<0.1	
10/4/2017		<0.1		<0.1			<0.1
10/5/2017	<0.1		<0.1				
3/27/2018	<0.1					<0.1	
3/28/2018		<0.1	<0.1	<0.1			
3/29/2018					<0.1		<0.1
6/5/2018					0.055 (J)		
6/6/2018						<0.1	<0.1
6/7/2018			<0.1				
6/8/2018	<0.1						
6/11/2018		<0.1		<0.1			
9/25/2018		<0.1	<0.1	<0.1			<0.1
10/1/2018	<0.1				<0.1	<0.1	
2/26/2019	<0.1						
2/27/2019					0.052 (J)	<0.1	
3/5/2019		<0.1		<0.1			<0.1
3/6/2019			<0.1				
3/28/2019					0.036 (J)	<0.1	
3/29/2019	<0.1						
4/2/2019		<0.1					
4/3/2019			<0.1	<0.1			<0.1
9/24/2019					0.063 (J)	<0.1	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/25/2019	<0.1	<0.1					<0.1
9/26/2019			<0.1	<0.1			
2/10/2020					0.061 (J)	<0.1	
2/11/2020		<0.1	<0.1	<0.1			
2/12/2020	<0.1						<0.1
3/18/2020	<0.1					<0.1	
3/19/2020					0.064 (J)		
3/24/2020		<0.1	<0.1	<0.1			<0.1
9/23/2020		<0.1	<0.1	<0.1	0.058 (J)	<0.1	
9/24/2020							<0.1
9/25/2020	<0.1						
2/9/2021			<0.1	<0.1			<0.1
2/10/2021	<0.1						
2/12/2021					0.068 (J)	<0.1	
3/2/2021	<0.1						
3/3/2021		<0.1	<0.1	<0.1	0.078 (J)	<0.1	<0.1
8/19/2021	<0.1				0.074 (J)	<0.1	
8/26/2021				<0.1			
8/27/2021		<0.1	<0.1				<0.1
2/9/2022		<0.1	<0.1	<0.1	0.057 (J)	<0.1	<0.1
2/10/2022	<0.1						
8/30/2022		<0.1	<0.1	<0.1	0.093 (J)		
8/31/2022	0.053 (J)					0.065 (J)	<0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						0.15 (J)	
6/2/2016			<0.1		0.62		
6/7/2016	<0.1						
7/25/2016			0.06 (J)			0.14 (J)	
7/26/2016					0.49		
7/28/2016	0.02 (J)						
9/14/2016		0.08 (J)				0.18 (J)	
9/15/2016					0.54		
9/19/2016	0.02 (J)		<0.1				
11/1/2016			<0.1		0.68	<0.1	
11/3/2016	<0.1						
11/4/2016		<0.1					
12/15/2016		0.06 (J)					
1/11/2017					0.49	0.09 (J)	
1/13/2017	<0.1						
1/16/2017		0.1 (J)	<0.1				
2/21/2017			<0.1				
3/1/2017						<0.1	
3/2/2017					0.48		
3/3/2017		<0.1					
3/6/2017	<0.1						
4/26/2017	0.04 (J)		<0.1		0.48	0.08 (J)	
4/28/2017		0.06 (J)					
5/26/2017		0.09 (J)					
6/28/2017		0.11 (J)			0.47	0.12 (J)	
6/29/2017	<0.1						
6/30/2017			<0.1				
10/3/2017	<0.1	<0.1					
10/4/2017			<0.1		<0.1	<0.1	
10/11/2017				<0.1			
10/12/2017							<0.1
11/20/2017				<0.1			<0.1
1/10/2018							<0.1
1/11/2018				<0.1			
2/19/2018							<0.1
2/20/2018				0.23			
3/27/2018			<0.1				
3/28/2018		0.31			0.56	<0.1	
3/29/2018	<0.1						
4/3/2018				<0.1			<0.1
6/5/2018	0.13 (J)						
6/7/2018		0.11 (J)			0.48		
6/8/2018						0.2 (J)	
6/11/2018			<0.1				
6/28/2018				<0.1			<0.1
8/7/2018				0.048 (J)			<0.1
9/24/2018				<0.1			<0.1
9/25/2018	0 (J)						
10/1/2018		<0.1			0.44	<0.1	
10/2/2018			<0.1				
2/26/2019			<0.1				
2/27/2019		0.12 (J)			0.53	0.13 (J)	

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
3/5/2019	0.32						
3/26/2019							<0.1
3/27/2019				<0.1			
3/29/2019		0.13 (J)					
4/1/2019			<0.1		0.45	0.1 (J)	
4/2/2019	0.12 (J)						
8/21/2019				<0.1			<0.1
9/24/2019	0.15 (J)	0.081 (J)					
9/25/2019			<0.1		0.46	0.1 (J)	
10/9/2019				<0.1			<0.1
2/11/2020		0.075 (J)				0.094 (J)	
2/12/2020	0.1 (J)		<0.1	<0.1	0.4		<0.1
3/19/2020		0.093 (J)	<0.1		0.51	0.11 (J)	
3/24/2020	0.081 (J)						<0.1
3/25/2020				<0.1			
9/23/2020		0.08 (J)			0.47	0.098 (J)	
9/24/2020	0.079 (J)		<0.1	<0.1			<0.1
2/9/2021	0.092 (J)						
2/10/2021		0.094 (J)		<0.1	0.43	<0.1	<0.1
2/11/2021			<0.1				
3/1/2021			<0.1				
3/3/2021		0.085 (J)			0.44	0.1	
3/4/2021	0.091 (J)			<0.1			<0.1
8/19/2021			<0.1		0.47		
8/26/2021				0.063 (J)			
8/27/2021		0.12				0.12	
9/1/2021	0.11						
9/3/2021							<0.1
2/8/2022				0.052 (J)			<0.1
2/9/2022	0.1	0.094 (J)			0.43	0.097 (J)	
2/11/2022			<0.1				
8/30/2022	0.1	0.12					
8/31/2022			0.06 (J)	0.065 (J)	0.42	0.13	0.05 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		<0.1	0.11 (J)	<0.1
7/26/2016		<0.1	0.05 (J)	<0.1
8/30/2016	0.09 (J)			
9/14/2016		<0.1	0.04 (J)	<0.1
11/2/2016		<0.1	<0.1	
11/4/2016				<0.1
11/14/2016	0.18 (J)			
1/12/2017			0.04 (J)	<0.1
1/13/2017		<0.1		
2/24/2017	0.05 (J)			
3/6/2017		<0.1		
3/7/2017			<0.1	<0.1
5/1/2017		<0.1	<0.1	
5/2/2017				<0.1
5/8/2017	0.03 (J)			
6/27/2017			<0.1	<0.1
6/29/2017		<0.1		
7/11/2017	0.07 (J)			
10/3/2017			<0.1	<0.1
10/5/2017		<0.1		
10/10/2017	<0.1			
3/29/2018		<0.1	<0.1	<0.1
4/2/2018	<0.1			
6/6/2018			0.15 (J)	
6/7/2018		<0.1		<0.1
9/19/2018	<0.1			
9/26/2018		<0.1	<0.1	<0.1
3/4/2019		<0.1	0.19 (J)	<0.1
3/27/2019	0.081 (J)			
4/3/2019		<0.1	0.047 (J)	<0.1
8/20/2019	<0.1			
9/24/2019			0.05 (J)	<0.1
9/25/2019		<0.1		
10/8/2019	0.034 (J)			
2/12/2020		<0.1	<0.1	<0.1
3/17/2020	<0.1			
3/24/2020			<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
2/8/2021			0.055 (J)	<0.1
2/9/2021		<0.1		
3/1/2021	<0.1			
3/2/2021			<0.1	<0.1
3/3/2021		<0.1		
8/19/2021	<0.1			
8/26/2021		<0.1	0.061 (J)	<0.1
2/8/2022	<0.1			
2/10/2022			0.055 (J)	<0.1
2/11/2022		<0.1		
8/30/2022			0.085 (J)	<0.1
8/31/2022	0.065 (J)	0.061 (J)		

Time Series

Constituent: Lead (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

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
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					
11/18/2009		<0.001					
3/3/2010		<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					
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				
3/4/2012						<0.001	
3/5/2012		<0.001	<0.001		<0.001		<0.001
3/6/2012				<0.001			
9/5/2012			<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
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		
8/14/2013						<0.001	<0.001
2/4/2014			<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
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			
2/16/2016		<0.001	<0.001		<0.001	<0.001	<0.001
2/17/2016				<0.001			
8/31/2016		<0.001	<0.001	<0.001	0.0001 (J)		
9/1/2016						<0.001	<0.001
11/28/2016		<0.001		<0.001			
11/29/2016			<0.001				
11/30/2016					<0.001	<0.001	
12/1/2016							<0.001
2/22/2017		<0.001		<0.001			

Time Series

Constituent: Lead (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

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
2/23/2017			<0.001		<0.001		
2/24/2017						<0.001	<0.001
5/8/2017		<0.001					
5/9/2017			<0.001		<0.001		
5/10/2017				0.0001 (J)		<0.001	<0.001
7/17/2017		<0.001					<0.001
7/18/2017			<0.001	7E-05 (J)	<0.001	<0.001	
10/16/2017		<0.001					<0.001
10/17/2017			<0.001	<0.001		<0.001	
10/18/2017					8E-05 (J)		
2/19/2018		<0.001					
2/20/2018				<0.001		<0.001	
2/21/2018			<0.001		<0.001		<0.001
8/6/2018		<0.001					
8/7/2018			<0.001		<0.001		<0.001
8/8/2018				<0.001		<0.001	
2/25/2019		<0.001					
2/26/2019			<0.001	<0.001	<0.001	<0.001	<0.001
6/12/2019		<0.001		<0.001		<0.001	
6/13/2019			<0.001		<0.001		<0.001
8/19/2019		<0.001				<0.001	
8/20/2019			<0.001	6.1E-05 (J)			
8/21/2019					8.2E-05 (J)		7E-05 (J)
10/8/2019		<0.001					
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	<0.001		0.00015 (J)		
3/18/2020				<0.001		<0.001	7.9E-05 (J)
8/26/2020		<0.001					
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		0.0001 (J)	<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		<0.001			9.6E-05 (J)		5.4E-05 (J)
8/18/2021			<0.001	<0.001	<0.001	<0.001	<0.001
8/20/2021		<0.001					
2/8/2022		<0.001	<0.001		<0.001	<0.001	
2/9/2022				<0.001			<0.001
8/30/2022		<0.001	<0.001		<0.001	<0.001	<0.001
8/31/2022				<0.001			

Time Series

Constituent: Lead (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
9/9/2009	<0.001						
11/18/2009	<0.001						
1/5/2010	<0.001						
3/3/2010	<0.001						
9/7/2010	<0.001						
3/10/2011	<0.001						
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						
2/3/2015	<0.001						
8/4/2015	<0.001						
2/16/2016	<0.001						
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				
7/25/2016							<0.001
7/26/2016		<0.001				<0.001	
7/27/2016			<0.001	<0.001	<0.001		
9/1/2016	<0.001						
9/13/2016						0.0001 (J)	<0.001
9/15/2016		<0.001					
9/16/2016			<0.001		<0.001		
9/19/2016				<0.001			
11/1/2016						<0.001	
11/2/2016		<0.001					
11/3/2016			<0.001	<0.001	<0.001		
11/4/2016							<0.001
11/29/2016	<0.001						
1/10/2017		<0.001					
1/11/2017			<0.001	<0.001	<0.001	<0.001	
1/16/2017							<0.001
2/23/2017	<0.001						
3/1/2017				<0.001	<0.001		
3/2/2017			8E-05 (J)			0.0001 (J)	<0.001
3/8/2017		0.0001 (J)					
4/26/2017		<0.001		<0.001	<0.001		
4/27/2017						<0.001	<0.001
5/2/2017			<0.001				
5/10/2017	<0.001						
6/27/2017						<0.001	<0.001
6/28/2017				<0.001	0.0001 (J)		
6/29/2017			8E-05 (J)				
6/30/2017		<0.001					
7/18/2017	<0.001						
10/18/2017	<0.001						
2/19/2018	<0.001						
3/27/2018		<0.001					<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
3/28/2018			<0.001	<0.001	<0.001		
3/29/2018						<0.001	
8/6/2018	<0.001						
2/25/2019	<0.001						
2/26/2019		<0.001					
2/27/2019						<0.001	<0.001
3/5/2019			<0.001		<0.001		
3/6/2019				<0.001			
4/2/2019			<0.001				
4/3/2019				<0.001	<0.001		
6/13/2019	<0.001						
8/20/2019	<0.001						
9/25/2019			<0.001				
9/26/2019				<0.001	<0.001		
10/8/2019	<0.001						
2/10/2020						4.9E-05 (J)	<0.001
2/11/2020			<0.001	<0.001	<0.001		
2/12/2020		<0.001					
3/17/2020	<0.001						
3/18/2020		<0.001					<0.001
3/19/2020						0.00012 (J)	
3/24/2020			6.4E-05 (J)	7.1E-05 (J)	5.4E-05 (J)		
8/27/2020	<0.001						
9/23/2020	<0.001		4.1E-05 (J)	6E-05 (J)	9.7E-05 (J)	<0.001	0.00021 (J)
9/25/2020		<0.001					
2/9/2021				5E-05 (J)	9.4E-05 (J)		
2/10/2021		4.8E-05 (J)					
2/12/2021						4.4E-05 (J)	0.00038 (J)
3/2/2021		<0.001					
3/3/2021	<0.001		<0.001	<0.001	7.6E-05 (J)	5.6E-05 (J)	<0.001
8/18/2021	<0.001						
8/19/2021		<0.001				<0.001	<0.001
8/26/2021					<0.001		
8/27/2021			<0.001	<0.001			
2/8/2022	<0.001						
2/9/2022			<0.001	<0.001	<0.001	<0.001	<0.001
2/10/2022		<0.001					
8/30/2022	<0.001		<0.001	<0.001	<0.001	<0.001	
8/31/2022		<0.001					<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016							<0.001
6/2/2016				<0.001		0.00056 (J)	
6/7/2016	<0.001	<0.001					
7/25/2016				<0.001			<0.001
7/26/2016						0.0001 (J)	
7/27/2016	<0.001						
7/28/2016		<0.001					
9/14/2016			<0.001				<0.001
9/15/2016						0.0002 (J)	
9/19/2016	<0.001	<0.001		<0.001			
11/1/2016				<0.001		<0.001	<0.001
11/2/2016	0.0013 (J)						
11/3/2016		<0.001					
11/4/2016			<0.001				
12/15/2016			<0.001				
1/11/2017						<0.001	<0.001
1/13/2017	<0.001	<0.001					
1/16/2017			<0.001	<0.001			
2/21/2017				<0.001			
3/1/2017							<0.001
3/2/2017						0.0002 (J)	
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
4/28/2017			<0.001				
5/26/2017			<0.001				
6/28/2017			<0.001			<0.001	<0.001
6/29/2017	<0.001	<0.001					
6/30/2017				<0.001			
10/11/2017					0.0001 (J)		
11/20/2017					<0.001		
1/11/2018					0.0002 (J)		
2/20/2018					<0.001		
3/27/2018				<0.001			
3/28/2018			<0.001			<0.001	<0.001
3/29/2018	<0.001	<0.001					
4/3/2018					<0.001		
6/28/2018					<0.001		
8/7/2018					<0.001		
9/24/2018					<0.001		
2/26/2019				<0.001			
2/27/2019			<0.001			<0.001	<0.001
3/5/2019	<0.001	<0.001					
4/2/2019		<0.001					
4/3/2019	<0.001						
8/21/2019					<0.001		
9/24/2019		<0.001					
9/25/2019	<0.001						
10/9/2019					<0.001		
2/11/2020			<0.001				<0.001
2/12/2020	<0.001	<0.001		<0.001	<0.001	<0.001	
3/19/2020			<0.001	<0.001		0.00017 (J)	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
3/24/2020	0.00011 (J)	<0.001					
3/25/2020					5.1E-05 (J)		
9/23/2020			0.0011 (J)			<0.001	0.00015 (J)
9/24/2020	9.2E-05 (J)	4.6E-05 (J)		<0.001	<0.001		
2/9/2021	6.3E-05 (J)	<0.001					
2/10/2021			0.00015 (J)		<0.001	<0.001	<0.001
2/11/2021				4.6E-05 (J)			
3/1/2021				<0.001			
3/3/2021	4.5E-05 (J)		<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		
8/27/2021	<0.001		<0.001				<0.001
9/1/2021		<0.001					
2/8/2022					<0.001		
2/9/2022	<0.001	<0.001	<0.001			<0.001	<0.001
2/11/2022				<0.001			
8/30/2022		<0.001	<0.001				
8/31/2022	<0.001			<0.001	<0.001	<0.001	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016			<0.001	<0.001	<0.001
7/26/2016			<0.001	<0.001	<0.001
8/30/2016		<0.001			
9/14/2016			<0.001	<0.001	<0.001
11/2/2016			<0.001	<0.001	
11/4/2016					<0.001
11/14/2016		<0.001			
1/12/2017				<0.001	<0.001
1/13/2017			<0.001		
2/24/2017		<0.001			
3/6/2017			<0.001		
3/7/2017				0.0001 (J)	7E-05 (J)
5/1/2017			<0.001	<0.001	
5/2/2017					<0.001
5/8/2017		<0.001			
6/27/2017				<0.001	<0.001
6/29/2017			<0.001		
7/11/2017		<0.001			
10/10/2017		<0.001			
10/12/2017	9E-05 (J)				
11/20/2017	<0.001				
1/10/2018	<0.001				
2/19/2018	<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				
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				
9/24/2019				<0.001	9E-05 (J)
9/25/2019			<0.001		
10/9/2019	<0.001				
2/12/2020	<0.001		<0.001	<0.001	<0.001
3/24/2020	<0.001			5.4E-05 (J)	6.8E-05 (J)
3/25/2020			<0.001		
8/27/2020		<0.001			
9/22/2020		<0.001	<0.001	4.5E-05 (J)	4.2E-05 (J)
9/24/2020	3.8E-05 (J)				
2/8/2021				0.00013 (J)	3.7E-05 (J)
2/9/2021			<0.001		
2/10/2021	<0.001				
3/1/2021		<0.001			
3/2/2021				5.1E-05 (J)	9.2E-05 (J)
3/3/2021			<0.001		
3/4/2021	<0.001				
8/19/2021		<0.001			
8/26/2021			<0.001	<0.001	<0.001

Time Series

Constituent: Lead (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
9/3/2021	<0.001				
2/8/2022	<0.001	<0.001			
2/10/2022				<0.001	<0.001
2/11/2022			<0.001		
8/30/2022				<0.001	<0.001
8/31/2022	<0.001	<0.001	<0.001		

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	<0.03	0.0024 (J)	<0.03	<0.03			
9/1/2016					<0.03	<0.03	<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	
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	
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)
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	
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		
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)	
10/8/2019	0.0015 (J)						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	0.0017 (J)	0.00094 (J)		0.0012 (J)			0.0018 (J)
3/18/2020			0.0053 (J)		<0.03	0.0017 (J)	
8/26/2020	0.0032 (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	0.0029 (J)	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	0.0033 (J)			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)
8/20/2021	0.0028 (J)						
2/8/2022	0.0031 (J)	0.0018 (J)		0.00094 (J)	<0.03		0.0016 (J)
2/9/2022			0.0042 (J)			0.0018 (J)	
8/30/2022	0.0025 (J)	0.0019 (J)		<0.03	<0.03	0.0014 (J)	0.0013 (J)
8/31/2022			0.0042 (J)				

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (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					<0.03
7/25/2016						0.002 (J)	
7/26/2016	<0.03				0.0135 (J)		
7/27/2016		<0.03	0.0087 (J)	0.0049 (J)			<0.03
9/13/2016					0.0112 (J)	<0.03	
9/15/2016	<0.03						
9/16/2016		<0.03		0.0031 (J)			
9/19/2016			0.0043 (J)				<0.03
11/1/2016					0.0163 (J)		
11/2/2016	<0.03						<0.03
11/3/2016		<0.03	<0.03	0.0021 (J)			
11/4/2016						<0.03	
1/10/2017	<0.03						
1/11/2017		0.0035 (J)	0.0052 (J)	0.0025 (J)	0.0166 (J)		
1/13/2017							<0.03
1/16/2017						0.0023 (J)	
3/1/2017			0.0053 (J)	0.0029 (J)			
3/2/2017		<0.03			0.0159 (J)	0.0025 (J)	
3/6/2017							<0.03
3/8/2017	<0.03						
4/26/2017	<0.03		0.0041 (J)	0.0019 (J)			<0.03
4/27/2017					0.0137 (J)	0.0027 (J)	
5/2/2017		<0.03					
6/27/2017					0.0094 (J)	0.0024 (J)	
6/28/2017			0.0039 (J)	0.0016 (J)			
6/29/2017		<0.03					<0.03
6/30/2017	<0.03						
3/27/2018	<0.03					0.0023 (J)	
3/28/2018		<0.03	0.0041 (J)	0.0024 (J)			
3/29/2018					0.0078 (J)		<0.03
6/5/2018					0.0079 (J)		
6/6/2018						0.0024 (J)	<0.03
6/7/2018			0.0032 (J)				
6/8/2018	<0.03						
6/11/2018		<0.03		0.0014 (J)			
9/25/2018		<0.03	0.0036 (J)	0.0016 (J)			<0.03
10/1/2018	<0.03				0.0053 (J)	0.0023 (J)	
2/26/2019	<0.03						
2/27/2019					0.0093 (J)	0.0023 (J)	
3/5/2019		<0.03		0.0031 (J)			<0.03
3/6/2019			0.0033 (J)				
3/28/2019					0.013 (J)	0.0022 (J)	
3/29/2019	<0.03						
4/2/2019		<0.03					
4/3/2019			0.0035 (J)	0.0028 (J)			<0.03
9/24/2019					0.0046 (J)	0.0023 (J)	
9/25/2019	<0.03	<0.03					<0.03
9/26/2019			0.0032 (J)	0.0029 (J)			
2/10/2020					0.011 (J)	0.0023 (J)	

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
2/11/2020		<0.03	0.0033 (J)	0.005 (J)			
2/12/2020	<0.03						<0.03
3/18/2020	<0.03					0.0024 (J)	
3/19/2020					0.013 (J)		
3/24/2020		0.0034 (J)	0.0033 (J)	0.0035 (J)			<0.03
9/23/2020		<0.03	0.003 (J)	0.0022 (J)	0.014 (J)	0.0024 (J)	
9/24/2020							<0.03
9/25/2020	<0.03						
2/9/2021			0.0031 (J)	0.0019 (J)			<0.03
2/10/2021	<0.03						
2/12/2021					0.01 (J)	0.0025 (J)	
3/2/2021	<0.03						
3/3/2021		<0.03	0.0034 (J)	0.0021 (J)	0.012 (J)	0.0025 (J)	<0.03
8/19/2021	<0.03				0.013 (J)	0.0023 (J)	
8/26/2021				0.0019 (J)			
8/27/2021		<0.03	0.0032 (J)				<0.03
2/9/2022		<0.03	0.0032 (J)	0.0015 (J)	0.013 (J)	0.0027 (J)	0.00082 (J)
2/10/2022	<0.03						
8/30/2022		<0.03	0.0036 (J)	0.0014 (J)	0.013 (J)		
8/31/2022	<0.03					<0.03	<0.03

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						0.01	
6/2/2016			<0.03		0.018		
6/7/2016	0.0055						
7/25/2016			<0.03			0.0132 (J)	
7/26/2016					0.0221 (J)		
7/28/2016	0.0045 (J)						
9/14/2016		0.004 (J)				0.012 (J)	
9/15/2016					0.0197 (J)		
9/19/2016	0.0054 (J)		<0.03				
11/1/2016			<0.03		0.0194 (J)	0.0115 (J)	
11/3/2016	<0.03						
11/4/2016		<0.03					
12/15/2016		0.0026 (J)					
1/11/2017					0.0177 (J)	0.0085 (J)	
1/13/2017	0.0062 (J)						
1/16/2017		0.0023 (J)	<0.03				
2/21/2017			<0.03				
3/1/2017						0.0114 (J)	
3/2/2017					0.0185 (J)		
3/3/2017		0.0013 (J)					
3/6/2017	0.0059 (J)						
4/26/2017	0.0054 (J)		<0.03		0.0183 (J)	0.0092 (J)	
4/28/2017		0.0031 (J)					
5/26/2017		0.0038 (J)					
6/28/2017		0.0026 (J)			0.0173 (J)	0.0085 (J)	
6/29/2017	0.0047 (J)						
6/30/2017			<0.03				
10/11/2017				0.0018 (J)			
10/12/2017							<0.03
11/20/2017				0.0018 (J)			<0.03
1/10/2018							<0.03
1/11/2018				0.0019 (J)			
2/19/2018							<0.03
2/20/2018				<0.03			
3/27/2018			0.0011 (J)				
3/28/2018		0.0025 (J)			0.02 (J)	0.013 (J)	
3/29/2018	0.0062 (J)						
4/3/2018				0.0022 (J)			<0.03
6/5/2018	0.0061 (J)						
6/7/2018		0.0017 (J)			0.02 (J)		
6/8/2018						0.012 (J)	
6/11/2018			0.0012 (J)				
6/28/2018				0.0026 (J)			<0.03
8/7/2018				0.0024 (J)			<0.03
9/24/2018				0.0022 (J)			<0.03
9/25/2018	0.0062 (J)						
10/1/2018		<0.03			0.02 (J)	0.011 (J)	
10/2/2018			<0.03				
2/26/2019			0.0011 (J)				
2/27/2019		0.0011 (J)			0.021 (J)	0.014 (J)	
3/5/2019	0.0053 (J)						
3/29/2019		0.0016 (J)					

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
4/1/2019			0.001 (J)		0.021 (J)	0.013 (J)	
4/2/2019	0.0051 (J)						
8/21/2019				0.0035 (J)			<0.03
9/24/2019	0.0068 (J)	0.0011 (J)					
9/25/2019			0.0011 (J)		0.02 (J)	0.01 (J)	
10/9/2019				0.0036 (J)			<0.03
2/11/2020		0.0012 (J)				0.013 (J)	
2/12/2020	0.0065 (J)		0.0013 (J)	0.0041 (J)	0.019 (J)		<0.03
3/19/2020		0.0022 (J)	0.0012 (J)		0.023 (J)	0.014 (J)	
3/24/2020	0.0064 (J)						<0.03
3/25/2020				0.0049 (J)			
9/23/2020		0.0016 (J)			0.023 (J)	0.013 (J)	
9/24/2020	0.0069 (J)		0.0011 (J)	0.0054 (J)			<0.03
2/9/2021	0.006 (J)						
2/10/2021		0.0039 (J)		0.0071 (J)	0.023 (J)	0.015 (J)	<0.03
2/11/2021			0.0012 (J)				
3/1/2021			0.0011 (J)				
3/3/2021		0.0016 (J)			0.024 (J)	0.017 (J)	
3/4/2021	0.0062 (J)			0.0084 (J)			<0.03
8/19/2021			0.0012 (J)		0.023 (J)		
8/26/2021				0.0082 (J)			
8/27/2021		0.0058 (J)				0.026 (J)	
9/1/2021	0.0057 (J)						
9/3/2021							<0.03
2/8/2022				0.008 (J)			0.00076 (J)
2/9/2022	0.0061 (J)	0.006 (J)			0.026 (J)	0.021 (J)	
2/11/2022			0.0014 (J)				
8/30/2022	0.0079 (J)	0.0044 (J)					
8/31/2022			0.0012 (J)	0.0065 (J)	0.021 (J)	0.022 (J)	<0.03

Time Series

Constituent: Lithium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		0.013	0.0049 (J)	<0.03
7/26/2016		0.0123 (J)	0.0063 (J)	0.0027 (J)
8/30/2016	0.0061 (J)			
9/14/2016		0.0137 (J)	0.0058 (J)	0.0029 (J)
11/2/2016		0.0136 (J)	0.0053 (J)	
11/4/2016				<0.03
11/14/2016	0.0064 (J)			
1/12/2017			0.0054 (J)	0.0032 (J)
1/13/2017		0.0121 (J)		
2/24/2017	0.0049 (J)			
3/6/2017		0.0143 (J)		
3/7/2017			0.0056 (J)	0.0035 (J)
5/1/2017		0.0132 (J)	0.0031 (J)	
5/2/2017				0.0031 (J)
5/8/2017	0.0053 (J)			
6/27/2017			0.0018 (J)	0.0029 (J)
6/29/2017		0.0145 (J)		
7/11/2017	0.0051 (J)			
10/10/2017	0.0043 (J)			
3/29/2018		0.014 (J)	0.0058 (J)	0.0034 (J)
4/2/2018	0.0045 (J)			
6/6/2018			0.0068 (J)	
6/7/2018		0.013 (J)		0.0032 (J)
9/19/2018	0.0043 (J)			
9/26/2018		0.014 (J)	0.0065 (J)	0.0032 (J)
3/4/2019		0.015 (J)	0.0065 (J)	0.0032 (J)
4/3/2019		0.014 (J)	0.007 (J)	0.0035 (J)
8/20/2019	0.0036 (J)			
9/24/2019			0.0065 (J)	0.0031 (J)
9/25/2019		0.014 (J)		
10/8/2019	0.0036 (J)			
2/12/2020		0.011 (J)	0.0066 (J)	0.0032 (J)
3/17/2020	0.0046 (J)			
3/24/2020			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)
2/8/2021			0.0063 (J)	0.0032 (J)
2/9/2021		0.011 (J)		
3/1/2021	0.0037 (J)			
3/2/2021			0.0018 (J)	0.0031 (J)
3/3/2021		0.012 (J)		
8/19/2021	0.0038 (J)			
8/26/2021		0.0094 (J)	0.0075 (J)	0.0032 (J)
2/8/2022	0.0039 (J)			
2/10/2022			0.0076 (J)	0.0036 (J)
2/11/2022		0.012 (J)		
8/30/2022			0.0068 (J)	0.0035 (J)
8/31/2022	0.0037 (J)	0.013 (J)		

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

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	<0.0002						
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				
8/31/2016	<0.0002	<0.0002	<0.0002	<0.0002			
9/1/2016					<0.0002	<0.0002	<0.0002
11/28/2016	<0.0002		<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		<0.0002				
2/23/2017		<0.0002		<0.0002			<0.0002
2/24/2017					<0.0002	<0.0002	
5/8/2017	<0.0002						
5/9/2017		<0.0002		<0.0002			

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
5/10/2017			<0.0002		<0.0002	<0.0002	<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	
8/6/2018	<0.0002						<0.0002
8/7/2018		<0.0002		<0.0002		<0.0002	
8/8/2018			<0.0002		<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)	
6/12/2019	<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	
10/8/2019	<0.0002						<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					<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		
9/23/2020						<0.0002	<0.0002
3/1/2021		<0.0002	<0.0002		<0.0002		
3/2/2021	<0.0002			<0.0002		<0.0002	
3/3/2021							<0.0002
8/18/2021		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/20/2021	<0.0002						
2/8/2022	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002
2/9/2022			<0.0002			<0.0002	
8/30/2022	<0.0002	<0.0002		<0.0002	0.00014 (J)	<0.0002	<0.0002
8/31/2022			<0.0002				

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					<0.0002	<0.0002	
6/2/2016	<0.0002						
6/6/2016			<0.0002	<0.0002			
6/7/2016		9.5E-05 (J)					9.6E-05 (J)
7/25/2016						<0.0002	
7/26/2016	<0.0002				<0.0002		
7/27/2016		<0.0002	<0.0002	<0.0002			<0.0002
9/13/2016					<0.0002	<0.0002	
9/15/2016	<0.0002						
9/16/2016		<0.0002		<0.0002			
9/19/2016			<0.0002				<0.0002
11/1/2016					<0.0002		
11/2/2016	<0.0002						<0.0002
11/3/2016		<0.0002	<0.0002	<0.0002			
11/4/2016						<0.0002	
1/10/2017	<0.0002						
1/11/2017		<0.0002	<0.0002	<0.0002	<0.0002		
1/13/2017							<0.0002
1/16/2017						<0.0002	
3/1/2017			<0.0002	<0.0002			
3/2/2017		<0.0002			<0.0002	<0.0002	
3/6/2017							<0.0002
3/8/2017	<0.0002						
4/26/2017	<0.0002		<0.0002	<0.0002			<0.0002
4/27/2017					<0.0002	<0.0002	
5/2/2017		<0.0002					
6/27/2017					<0.0002	<0.0002	
6/28/2017			<0.0002	<0.0002			
6/29/2017		<0.0002					<0.0002
6/30/2017	<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
9/25/2018		<0.0002	<0.0002	<0.0002			<0.0002
2/26/2019	6.1E-05 (J)						
2/27/2019					5.1E-05 (J)	5.4E-05 (J)	
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						
9/24/2019					<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
2/9/2021			<0.0002	<0.0002			<0.0002
2/10/2021	<0.0002						
2/12/2021					<0.0002	<0.0002	
3/3/2021		<0.0002	<0.0002	<0.0002			<0.0002
8/26/2021				<0.0002			
8/27/2021		<0.0002	<0.0002				<0.0002
2/9/2022		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
2/10/2022	<0.0002						
8/30/2022		<0.0002	<0.0002	<0.0002	<0.0002		
8/31/2022	<0.0002					<0.0002	<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						<0.0002	
6/2/2016			<0.0002		<0.0002		
6/7/2016	9.6E-05 (J)						
7/25/2016			<0.0002			<0.0002	
7/26/2016					<0.0002		
7/28/2016	<0.0002						
9/14/2016		<0.0002				<0.0002	
9/15/2016					<0.0002		
9/19/2016	<0.0002		<0.0002				
11/1/2016			<0.0002		<0.0002	<0.0002	
11/3/2016	<0.0002						
11/4/2016		<0.0002					
12/15/2016		<0.0002					
1/11/2017					<0.0002	<0.0002	
1/13/2017	<0.0002						
1/16/2017		<0.0002	<0.0002				
2/21/2017			<0.0002				
3/1/2017						<0.0002	
3/2/2017					<0.0002		
3/3/2017		<0.0002					
3/6/2017	<0.0002						
4/26/2017	<0.0002		<0.0002		<0.0002	<0.0002	
4/28/2017		<0.0002					
5/26/2017		<0.0002					
6/28/2017		<0.0002			<0.0002	<0.0002	
6/29/2017	<0.0002						
6/30/2017			<0.0002				
10/11/2017				<0.0002			
10/12/2017							<0.0002
11/20/2017				7E-05 (J)			8E-05 (J)
1/10/2018							<0.0002
1/11/2018				<0.0002			
2/19/2018							<0.0002
2/20/2018				<0.0002			
3/27/2018			<0.0002				
3/28/2018		<0.0002			<0.0002	<0.0002	
3/29/2018	<0.0002						
4/3/2018				<0.0002			<0.0002
6/28/2018				<0.0002			3.6E-05 (J)
8/7/2018				<0.0002			<0.0002
9/24/2018				<0.0002			<0.0002
9/25/2018	<0.0002						
2/26/2019			6.8E-05 (J)				
2/27/2019		<0.0002			6.2E-05 (J)	6.1E-05 (J)	
3/5/2019	<0.0002						
3/29/2019		<0.0002					
4/1/2019			8.2E-05 (J)		9.6E-05 (J)	8.4E-05 (J)	
8/21/2019				<0.0002			<0.0002
9/24/2019		<0.0002					
9/25/2019			<0.0002		<0.0002	<0.0002	
2/11/2020		<0.0002				<0.0002	
2/12/2020	<0.0002		<0.0002	<0.0002	<0.0002		<0.0002

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
2/9/2021	<0.0002						
2/10/2021		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
2/11/2021			<0.0002				
3/4/2021	<0.0002			<0.0002			<0.0002
8/26/2021				<0.0002			
9/1/2021	<0.0002						
9/3/2021							0.00012 (J)
2/8/2022				<0.0002			0.00013 (J)
2/9/2022	<0.0002	<0.0002			<0.0002	<0.0002	
2/11/2022			<0.0002				
8/30/2022	<0.0002	<0.0002					
8/31/2022			<0.0002	<0.0002	<0.0002	<0.0002	0.00064

Time Series

Constituent: Mercury (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		<0.0002	<0.0002	<0.0002
7/26/2016		<0.0002	<0.0002	<0.0002
8/30/2016	<0.0002			
9/14/2016		<0.0002	<0.0002	<0.0002
11/2/2016		<0.0002	<0.0002	
11/4/2016				<0.0002
11/14/2016	<0.0002			
1/12/2017			<0.0002	<0.0002
1/13/2017		<0.0002		
2/24/2017	<0.0002			
3/6/2017		<0.0002		
3/7/2017			<0.0002	<0.0002
5/1/2017		<0.0002	<0.0002	
5/2/2017				<0.0002
5/8/2017	<0.0002			
6/27/2017			<0.0002	<0.0002
6/29/2017		<0.0002		
7/11/2017	<0.0002			
10/10/2017	<0.0002			
3/29/2018		<0.0002	<0.0002	<0.0002
4/2/2018	<0.0002			
9/19/2018	5.3E-05 (J)			
9/26/2018		<0.0002	<0.0002	<0.0002
3/4/2019		<0.0002	<0.0002	<0.0002
8/20/2019	<0.0002			
2/12/2020		<0.0002	<0.0002	<0.0002
8/27/2020	<0.0002			
2/8/2021			<0.0002	<0.0002
2/9/2021		<0.0002		
3/2/2021			<0.0002	<0.0002
3/3/2021		<0.0002		
8/19/2021	<0.0002			
8/26/2021		<0.0002	<0.0002	<0.0002
2/8/2022	<0.0002			
2/10/2022			<0.0002	<0.0002
2/11/2022		<0.0002		
8/30/2022			<0.0002	<0.0002
8/31/2022	<0.0002	<0.0002		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	<0.01	<0.01	<0.01	<0.01			
9/1/2016					<0.01	<0.01	<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	
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
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	
8/6/2018	<0.01						<0.01
8/7/2018		<0.01		<0.01		<0.01	
8/8/2018			<0.01		<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	
8/26/2020	<0.01						
8/27/2020		<0.01				<0.01	<0.01
8/28/2020			<0.01	<0.01	<0.01		
8/18/2021		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
8/20/2021	<0.01						
2/8/2022	<0.01	<0.01		<0.01	<0.01		<0.01
2/9/2022			<0.01			<0.01	
8/30/2022	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
8/31/2022			<0.01				

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (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)	
7/26/2016	<0.01				0.0132		
7/27/2016		<0.01	<0.01	<0.01			<0.01
9/13/2016					0.0127	0.01 (J)	
9/15/2016	<0.01						
9/16/2016		<0.01		<0.01			
9/19/2016			<0.01				<0.01
11/1/2016					0.0092 (J)		
11/2/2016	<0.01						<0.01
11/3/2016		<0.01	<0.01	<0.01			
11/4/2016						0.01	
1/10/2017	<0.01						
1/11/2017		<0.01	<0.01	<0.01	0.0093 (J)		
1/13/2017							<0.01
1/16/2017						0.0086 (J)	
3/1/2017			<0.01	<0.01			
3/2/2017		<0.01			0.0099 (J)	0.01	
3/6/2017							<0.01
3/8/2017	<0.01						
4/26/2017	<0.01		<0.01	<0.01			<0.01
4/27/2017					0.0103	0.0101	
5/2/2017		<0.01					
6/27/2017					0.0097 (J)	0.0093 (J)	
6/28/2017			<0.01	<0.01			
6/29/2017		<0.01					<0.01
6/30/2017	<0.01						
3/27/2018	<0.01					0.0074 (J)	
3/28/2018		<0.01	<0.01	<0.01			
3/29/2018					0.0076 (J)		<0.01
6/5/2018					0.0092 (J)		
6/6/2018						0.0073 (J)	
6/8/2018	<0.01						
10/1/2018	<0.01				0.0085 (J)	0.0076 (J)	
2/26/2019	<0.01						
2/27/2019					0.0087 (J)	0.0078 (J)	
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	<0.01						
9/24/2019					0.0072 (J)	0.0074 (J)	
9/25/2019	<0.01						
2/10/2020					0.0087 (J)	0.0062 (J)	
2/11/2020		<0.01	<0.01	<0.01			
2/12/2020	<0.01						<0.01
3/18/2020	<0.01					0.0056 (J)	
3/19/2020					0.0088 (J)		
3/24/2020		<0.01	<0.01	<0.01			<0.01
9/23/2020		<0.01	<0.01	<0.01	0.008 (J)	0.0059 (J)	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/24/2020							<0.01
9/25/2020	<0.01						
2/9/2021			<0.01	<0.01			<0.01
2/10/2021	<0.01						
2/12/2021					0.008 (J)	0.0056 (J)	
3/2/2021	<0.01						
3/3/2021		<0.01	<0.01	<0.01	0.0088 (J)	0.0049 (J)	<0.01
8/19/2021	<0.01				0.0083 (J)	0.005 (J)	
8/26/2021				<0.01			
8/27/2021		<0.01	<0.01				<0.01
2/9/2022		<0.01	<0.01	<0.01	0.0093 (J)	0.0055 (J)	<0.01
2/10/2022	<0.01						
8/30/2022		<0.01	<0.01	<0.01	0.0094 (J)		
8/31/2022	<0.01					0.0055 (J)	<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						0.0055 (J)	
6/2/2016			<0.01		0.0093 (J)		
6/7/2016	<0.01						
7/25/2016			<0.01			0.0037 (J)	
7/26/2016					0.0113		
7/28/2016	<0.01						
9/14/2016		0.0039 (J)				0.0034 (J)	
9/15/2016					0.0112		
9/19/2016	<0.01		<0.01				
11/1/2016			<0.01		0.0099 (J)	0.0025 (J)	
11/3/2016	<0.01						
11/4/2016		0.0077 (J)					
12/15/2016		0.0066 (J)					
1/11/2017					0.0093 (J)	0.0033 (J)	
1/13/2017	<0.01						
1/16/2017		0.0056 (J)	<0.01				
2/21/2017			<0.01				
3/1/2017						0.0044 (J)	
3/2/2017					0.0103		
3/3/2017		0.0049 (J)					
3/6/2017	0.0007 (J)						
4/26/2017	0.0008 (J)		<0.01		0.01	0.0075 (J)	
4/28/2017		0.004 (J)					
5/26/2017		0.0029 (J)					
6/28/2017		0.0036 (J)			0.0102	0.008 (J)	
6/29/2017	<0.01						
6/30/2017			<0.01				
10/11/2017				0.0094 (J)			
10/12/2017							<0.01
11/20/2017				0.0081 (J)			<0.01
1/10/2018							<0.01
1/11/2018				0.0074 (J)			
2/19/2018							<0.01
2/20/2018				<0.01			
3/27/2018			<0.01				
3/28/2018		0.0038 (J)			0.011	0.0025 (J)	
3/29/2018	<0.01						
4/3/2018				0.006 (J)			<0.01
6/7/2018		0.004 (J)			0.011		
6/8/2018						0.0041 (J)	
6/11/2018			<0.01				
6/28/2018				0.005 (J)			<0.01
8/7/2018				0.0045 (J)			<0.01
9/24/2018				0.0035 (J)			<0.01
10/1/2018		0.0042 (J)			0.012	0.0037 (J)	
10/2/2018			<0.01				
2/26/2019			<0.01				
2/27/2019		0.0041 (J)			0.011	0.0027 (J)	
3/5/2019	<0.01						
3/29/2019		0.0041 (J)					
4/1/2019			<0.01		0.012	0.0021 (J)	
8/21/2019				0.0021 (J)			<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
9/24/2019		0.0054 (J)					
9/25/2019			<0.01		0.012	0.0087 (J)	
10/9/2019				0.0018 (J)			<0.01
2/11/2020		0.0057 (J)				0.003 (J)	
2/12/2020	<0.01		<0.01	0.0025 (J)	0.013		<0.01
3/19/2020		0.0046 (J)	<0.01		0.013	0.0043 (J)	
3/24/2020	<0.01						<0.01
3/25/2020				0.002 (J)			
9/23/2020		0.0071 (J)			0.012	0.01	
9/24/2020	<0.01		<0.01	0.0016 (J)			<0.01
2/9/2021	<0.01						
2/10/2021		0.0041 (J)		0.0013 (J)	0.014	0.0038 (J)	<0.01
2/11/2021			<0.01				
3/1/2021			<0.01				
3/3/2021		0.0074 (J)			0.013	0.0036 (J)	
3/4/2021	<0.01			0.0014 (J)			<0.01
8/19/2021			<0.01		0.013		
8/26/2021				0.0027 (J)			
8/27/2021		0.0048 (J)				0.0099 (J)	
9/1/2021	<0.01						
9/3/2021							<0.01
2/8/2022				0.0035 (J)			<0.01
2/9/2022	<0.01	0.0057 (J)			0.013	0.0087 (J)	
2/11/2022			<0.01				
8/30/2022	<0.01	0.0068 (J)					
8/31/2022			<0.01	0.0036 (J)	0.011	0.0068 (J)	<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		<0.01	0.0035 (J)	<0.01
7/26/2016		<0.01	0.0042 (J)	<0.01
8/30/2016	<0.01			
9/14/2016		<0.01	0.0041 (J)	<0.01
11/2/2016		<0.01	0.0039 (J)	
11/4/2016				<0.01
11/14/2016	<0.01			
1/12/2017			0.0041 (J)	<0.01
1/13/2017		<0.01		
2/24/2017	<0.01			
3/6/2017		<0.01		
3/7/2017			0.0047 (J)	<0.01
5/1/2017		<0.01	0.0045 (J)	
5/2/2017				<0.01
5/8/2017	<0.01			
6/27/2017			0.004 (J)	<0.01
6/29/2017		<0.01		
7/11/2017	<0.01			
10/10/2017	<0.01			
3/29/2018		<0.01	<0.01	<0.01
4/2/2018	<0.01			
9/19/2018	<0.01			
3/4/2019		<0.01	<0.01	<0.01
8/20/2019	<0.01			
10/8/2019	<0.01			
2/12/2020		<0.01	0.0011 (J)	<0.01
3/17/2020	<0.01			
3/24/2020			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
2/8/2021			0.0011 (J)	<0.01
2/9/2021		<0.01		
3/1/2021	<0.01			
3/2/2021			<0.01	<0.01
3/3/2021		<0.01		
8/19/2021	<0.01			
8/26/2021		<0.01	0.001 (J)	<0.01
2/8/2022	<0.01			
2/10/2022			0.00096 (J)	<0.01
2/11/2022		<0.01		
8/30/2022			0.00089 (J)	<0.01
8/31/2022	<0.01	<0.01		

Time Series

Constituent: Nickel (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

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
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					
11/18/2009		0.0052					
3/3/2010		0.011					
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					
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				
3/4/2012						<0.005	
3/5/2012		0.0053	0.0035		<0.005		<0.005
3/6/2012				<0.005			
9/5/2012			0.0027		<0.005		<0.005
9/10/2012		0.0074				<0.005	
9/11/2012				<0.005			
2/5/2013			0.0026				<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		
8/14/2013						<0.005	0.0032
2/4/2014			<0.005	0.0026		0.0033	
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)			
2/2/2015			0.0023 (J)	<0.005		<0.005	
2/3/2015					<0.005		0.0013 (J)
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			
2/16/2016		0.0039	<0.005		<0.005	<0.005	0.0036
2/17/2016				<0.005			
2/22/2017		0.0051 (J)		0.0009 (J)			
2/23/2017			0.0026 (J)		<0.005		
2/24/2017						0.0021 (J)	0.0019 (J)
2/19/2018		<0.005					
2/20/2018				<0.005		<0.005	
2/21/2018			0.001 (J)		<0.005		0.0013 (J)
8/6/2018		0.003 (J)					

Time Series

Constituent: Nickel (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

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
8/7/2018			<0.005		<0.005		0.0019 (J)
8/8/2018				<0.005		0.0012 (J)	
2/25/2019		0.0026 (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)
10/8/2019		0.0051 (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)		
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)
3/1/2021			0.0024 (J)	<0.005		0.0021 (J)	
3/2/2021		0.034			<0.005		0.0014 (J)
8/18/2021			0.0028 (J)	<0.005	<0.005	0.0026 (J)	0.0016 (J)
8/20/2021		0.014					
2/8/2022		0.017	0.0032 (J)		<0.005	0.0017 (J)	
2/9/2022				<0.005			0.0014 (J)
8/30/2022		0.015	0.0027 (J)		<0.005	0.0021 (J)	0.00097 (J)
8/31/2022				<0.005			

Time Series

Constituent: Nickel (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	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)
2/8/2022	0.001 (J)
8/30/2022	<0.005

Time Series

Constituent: pH (S.U.) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/27/2008	6.53						
3/3/2009	6.35						
11/18/2009	6.47						5.82
1/5/2010							5.8
3/3/2010	6.53						6.15
3/10/2011	5.83						6.05
3/11/2011			5.52		6.16		
9/7/2011			4.35	4.31	5.07	5.64	
9/8/2011	5.69	4.49					5.31
3/5/2012	6.27						6.23
3/6/2012			6.37				
9/5/2012							5.83
9/10/2012	6.23						
9/11/2012			5.69				
2/5/2013							6.79
2/6/2013	7.56		6.8				
8/12/2013	6.68						
8/13/2013			5.51				6.48
2/4/2014			5.74				6.14
2/5/2014	6.32						
8/3/2015	6.13 (D)						
2/16/2016	5.64						5.2
2/17/2016			5.59				
11/28/2016	6.23		5.47				
11/29/2016		5.37					5.92
11/30/2016				5.13	5.61		
12/1/2016						5.24	
2/22/2017	6.21		5.48				
2/23/2017		5.5		5.28			5.97
2/24/2017					5.47	5.37	
5/8/2017	6.12						
5/9/2017		5.41		5.12			
5/10/2017			5.6		5.68	5.2	5.82
7/17/2017	6.03					5.21	
7/18/2017		5.5	5.49	5.21	5.59		5.76
10/16/2017	6.12					5.16	
10/17/2017		5.42	5.45		5.52		
10/18/2017				5.17			5.76
2/19/2018	6.13						5.86
2/20/2018			5.52		5.51		
2/21/2018		5.39		5.15		5.18	
8/6/2018	6.01						5.84
8/7/2018		5.14		4.95		5.06	
8/8/2018			5.15		5.33		
2/25/2019	6.51						5.91
2/26/2019		5.52	5.4	5.22	5.42	5.08	
6/12/2019	6.3		5.38		5.54		
6/13/2019		5.55		5.08		5.01	5.84
8/19/2019	6.23				5.56		
8/20/2019		5.33	5.33				5.85
8/21/2019				5.32		4.88	
10/8/2019	6.28						5.91

Time Series

Constituent: pH (S.U.) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
10/9/2019		5.37	5.39			4.89	
10/10/2019				5.4	5.55		
1/21/2020						4.99	
3/17/2020	6.14	5.7		5.03			5.97
3/18/2020			5.38		5.58	4.88	
5/6/2020	6.24	6.8					5.99
5/7/2020			5.43	5.05	5.52	5.2	
8/26/2020	5.67						
8/27/2020		5.39				5.17	5.77
8/28/2020			5.45	5.2	5.38		
9/22/2020	5.78	5.25	5.34	5.11	5.43		
9/23/2020						5.04	5.81
3/1/2021		5.25	5.17		5.62		
3/2/2021	5.42 (D)			4.82		4.63	
3/3/2021							5.78
8/18/2021		5.08	4.96	4.73	5.46	4.76	5.82
8/20/2021	5.86						
2/8/2022	5.83	5.16		5.1	5.67		5.89
2/9/2022			5.2			4.82	
8/30/2022	5.39	5.07		4.85	5.52	4.86	5.82
8/31/2022			5.23				

Time Series

Constituent: pH (S.U.) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					7.46	6.33	
6/2/2016	5.46						
6/6/2016			6.17	5.71			
6/7/2016		5.62					5.77
7/25/2016						6.21	
7/26/2016	5.45				7.43		
7/27/2016		5.59	6.14	5.46			5.79
9/13/2016					7.44	6.16	
9/15/2016	5.45						
9/16/2016		5.58					
9/19/2016			6.04	5.59			5.73
11/1/2016					7.24		
11/2/2016	5.41						5.67
11/3/2016		5.59	5.97	5.39			
11/4/2016						6.29	
1/10/2017	5.37						
1/11/2017		5.59	6.05	5.48	7.3		
1/13/2017							5.79
1/16/2017						6.29	
3/1/2017			5.94	5.41			
3/2/2017		5.54			7.23	6.28	
3/6/2017							5.63
3/8/2017	5.41						
4/26/2017	5.02		5.99	5.4			5.66
4/27/2017					6.99	6.09	
5/2/2017		5.47					
6/27/2017					6.87	6.21	
6/28/2017			6	5.36			
6/29/2017		5.56					5.85
6/30/2017	5.39						
10/3/2017					6.81	5.98	
10/4/2017		5.57		5.32			5.83
10/5/2017	5.49		6.11				
3/27/2018	5.47					6.25	
3/28/2018		5.59	6.1	5.34			
3/29/2018					7.38		5.93
6/5/2018					7.16		
6/6/2018						6.17	5.86
6/7/2018			5.98				
6/8/2018	5.45						
6/11/2018		5.58		5.28			
9/25/2018		5.59	5.81	4.86			5.84
10/1/2018	5.39				6.8	5.9	
2/26/2019	5.46						
2/27/2019					6.84	5.8	
3/5/2019		5.48		5.26			6.07
3/6/2019			5.99				
3/28/2019					6.99	6.15	
3/29/2019	5.34						
4/2/2019		5.74					
4/3/2019			6.29	5.47			5.71
9/24/2019					7.07	6.23	

Time Series

Constituent: pH (S.U.) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/25/2019	5.19	5.49					5.86
9/26/2019			6.04	5.2			
2/10/2020					7.2	6.1	
2/11/2020		5.58	6.07	5.3			
2/12/2020	5.48						6
3/18/2020	5.38					6.19	
3/19/2020					7.03		
3/24/2020		5.57	5.98	5.33			5.86
9/23/2020		5.58	6.01	5.29	7.15	6.01	
9/24/2020							5.8
9/25/2020	5.44						
2/9/2021			6.12	5.43			5.86
2/10/2021	5.35						
2/12/2021					7.14	6.21	
3/2/2021	5.49						
3/3/2021		5.52	5.89	5.31	7.2	5.38	5.89
8/19/2021	7.32				6.32	6.38	
8/26/2021				4.4			
8/27/2021		5.27	5.4				5.57
2/9/2022		5.53	5.98	5.28	7.12	6.24	5.91
2/10/2022	4.5						
8/30/2022		4.68	5.82	5.18	7.2		
8/31/2022	5.15					5.64	5.38

Time Series

Constituent: pH (S.U.) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						7.72	
6/2/2016			5.75		7.84		
6/7/2016	6.1						
7/25/2016			5.82			7.74	
7/26/2016					7.88		
7/28/2016	6.12						
9/13/2016		7.41					
9/14/2016						7.65	
9/15/2016					7.74		
9/19/2016	6.12		5.78 (D)				
11/1/2016			5.62		7.75	7.7	
11/3/2016	6.07						
11/4/2016		7.12					
12/15/2016		7.24					
1/11/2017					7.66	7.53	
1/13/2017	6.41						
1/16/2017		7.24	5.72				
2/21/2017			5.67				
3/1/2017						7.42	
3/2/2017					7.68		
3/3/2017		7.22					
3/6/2017	6.34						
4/26/2017	6.32		5.56		7.45	7.4	
4/28/2017		7.21					
5/26/2017		7.13					
6/28/2017		7.06			7.65	7.5	
6/29/2017	6.47						
6/30/2017			5.72				
10/3/2017	6.56	6.99					
10/4/2017			5.87		7.49	7.45	
10/11/2017				6.4			
10/12/2017							5.43
11/20/2017				6.33			5.1
1/10/2018							4.97
1/11/2018				6.29			
2/19/2018							5.6
2/20/2018				7.22			
3/27/2018			5.83				
3/28/2018		7.3			7.91	7.74	
3/29/2018	6.75						
4/3/2018				6.87			5.84
6/5/2018	6.09						
6/7/2018		7.29			7.69		
6/8/2018						7.64	
6/11/2018			5.69				
6/28/2018				6.18			5.24
8/7/2018				6.08			5.18
9/24/2018				5.81			5.14
9/25/2018	6.67						
10/1/2018		7.07			7.39	7.47	
10/2/2018			5.39				
2/26/2019			5.77				

Time Series

Constituent: pH (S.U.) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
2/27/2019		7.27			7.55	7.54	
3/5/2019	7.22						
3/26/2019							5.3
3/27/2019				5.84			
3/29/2019		7.06					
4/1/2019			5.62		7.87	7.74	
4/2/2019	6.94						
8/21/2019				5.96			5.26
9/24/2019	6.87	7.01					
9/25/2019			5.69		7.64	7.47	
10/9/2019				5.81			5.22
2/11/2020		7.38				7.09	
2/12/2020	7.13		5.8	5.97	7.83		5.3
3/19/2020		7.22	6		7.65	7.31	
3/24/2020	6.35						5.29
3/25/2020				5.78			
9/23/2020		7.22			7.57	7.37	
9/24/2020	6.7		5.67	5.7			5.43
2/9/2021	6.95						
2/10/2021		7.29		5.8	7.81	7.58	5.19
2/11/2021			5.73				
3/1/2021			5.78				
3/3/2021		7.92			8.39	8.23	
3/4/2021	6.8			5.54			5.23
8/19/2021					5.34		
8/26/2021				6.91			
8/27/2021		7.14				7.39	
9/1/2021	6.65						
9/3/2021							4.75
2/8/2022				5.78			5.26
2/9/2022	6.84	5.89			7.97	7.66	
2/11/2022			5.59				
8/30/2022	6.58	7.04					
8/31/2022			5.87	5.3	7.65	7.49	4.53

Time Series

Constituent: pH (S.U.) Analysis Run 10/21/2022 3:06 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		6.36	7.67	5.75
7/26/2016		6.22	7.66	5.72
8/30/2016	5.75			
9/14/2016		6.23	7.6	5.74
11/2/2016		6.08	7.35	
11/4/2016				5.61
11/14/2016	5.59			
1/12/2017			7.49	5.71
1/13/2017		6.19		
2/24/2017	5.49			
3/6/2017		6.2		
3/7/2017			7.43	5.66
5/1/2017		6.21	7.22	
5/2/2017				5.65
5/8/2017	5.58			
6/27/2017			7.32	5.7
6/29/2017		6.21		
7/11/2017	5.58			
10/3/2017			7.48	5.79
10/5/2017		6.16		
10/10/2017	5.49			
3/29/2018		6.09	7.02	5.63
4/2/2018	6.3			
6/6/2018			7.43	
6/7/2018		6.12		5.63
9/19/2018	5.48			
9/26/2018		5.84	7.13	5.63
3/4/2019		6.18	7.46	5.75
3/27/2019	5.83			
4/3/2019		6.43	7.11	5.63
8/20/2019	5.58			
9/24/2019			6.93	5.6
9/25/2019		6.2		
10/8/2019	5.59			
2/12/2020		6.15	7.52	5.83
3/17/2020	5.57			
3/24/2020			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
2/8/2021				5.67
2/9/2021		6.06		
3/1/2021	5.48			
3/2/2021			7.15	5.63
3/3/2021		6.21		
8/19/2021	5.5			
8/26/2021		5.82	7.16	5.51
2/8/2022	5.4			
2/10/2022			6.99	5.14
2/11/2022		5.95		
8/30/2022			7.4	5
8/31/2022	5.32	5.5		

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

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
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					
11/18/2009		<0.005					
3/3/2010		<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					
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				
3/4/2012						<0.005	
3/5/2012		<0.005	<0.005		<0.005		0.014
3/6/2012				<0.005			
9/5/2012			<0.005		<0.005		0.012
9/10/2012		<0.005				0.011	
9/11/2012				<0.005			
2/5/2013			<0.005				0.011
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		
8/14/2013						0.013	0.025
2/4/2014			<0.005	<0.005		0.017	
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			
2/2/2015			<0.005	<0.005		0.0089	
2/3/2015					<0.005		0.011
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			
2/16/2016		<0.005	<0.005		<0.005	0.0047 (J)	0.022
2/17/2016				<0.005			
8/31/2016		<0.005	0.0039 (J)	0.0029 (J)	0.0038 (J)		
9/1/2016						0.0132	0.0212
11/28/2016		<0.005		0.0019 (J)			
11/29/2016			0.0033 (J)				
11/30/2016					0.0054 (J)	0.0046 (J)	
12/1/2016							0.0234
2/22/2017		<0.005		0.0015 (J)			

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/21/2022 3:06 PM View: Constituents View

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
2/23/2017			0.0097 (J)		0.002 (J)		
2/24/2017						0.0108	0.0154
5/8/2017		<0.005					
5/9/2017			0.0066 (J)		<0.005		
5/10/2017				0.0016 (J)		0.0054 (J)	0.0152
7/17/2017		<0.005					0.0136
7/18/2017			0.0021 (J)	0.0024 (J)	0.0027 (J)	0.0047 (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)		
2/19/2018		<0.005					
2/20/2018				<0.005		<0.005	
2/21/2018			<0.005		<0.005		0.0127
8/6/2018		<0.005					
8/7/2018			<0.005		0.0016 (J)		0.021
8/8/2018				0.0025 (J)		0.0041 (J)	
2/25/2019		<0.005					
2/26/2019			0.0014 (J)	0.003 (J)	0.002 (J)	0.0027 (J)	0.024
6/12/2019		<0.005		0.0034 (J)		0.0029 (J)	
6/13/2019			<0.005		0.0089 (J)		0.027
8/19/2019		<0.005				0.003 (J)	
8/20/2019			0.0022 (J)	0.0032 (J)			
8/21/2019					0.004 (J)		0.037
10/8/2019		<0.005					
10/9/2019			0.0023 (J)	0.0026 (J)			0.034
10/10/2019					0.0021 (J)	0.0024 (J)	
3/17/2020		<0.005	0.0017 (J)		0.0096 (J)		
3/18/2020				0.0032 (J)		0.0046 (J)	0.028
8/26/2020		<0.005					
8/27/2020			0.011				0.021
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
3/1/2021			0.011	0.0043 (J)		0.0041 (J)	
3/2/2021		<0.005			0.012		0.019
8/18/2021			0.019	0.0042 (J)	0.017	0.0046 (J)	0.017
8/20/2021		<0.005					
2/8/2022		<0.005	0.02		0.0091	0.0044 (J)	
2/9/2022				0.0042 (J)			0.017
8/30/2022		<0.005	0.03		0.0068	0.0038 (J)	0.019
8/31/2022				0.0042 (J)			

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
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						
6/1/2016						<0.005	<0.005
6/2/2016		0.0011 (J)					
6/6/2016				<0.005	<0.005		
6/7/2016			0.001 (J)				
7/25/2016							<0.005
7/26/2016		0.0016 (J)				<0.005	
7/27/2016			0.0012 (J)	<0.005	<0.005		
9/1/2016	0.002 (J)						
9/13/2016						<0.005	<0.005
9/15/2016		0.0014 (J)					
9/16/2016			0.0015 (J)		<0.005		
9/19/2016				<0.005			
11/1/2016						<0.005	
11/2/2016		<0.005					
11/3/2016			0.0015 (J)	<0.005	<0.005		
11/4/2016							<0.005
11/29/2016	0.0017 (J)						
1/10/2017		0.0012 (J)					
1/11/2017			0.0014 (J)	<0.005	<0.005	<0.005	
1/16/2017							<0.005
2/23/2017	0.0018 (J)						
3/1/2017				<0.005	<0.005		
3/2/2017			0.0017 (J)			<0.005	<0.005
3/8/2017		<0.005					
4/26/2017		<0.005		<0.005	<0.005		
4/27/2017						<0.005	<0.005
5/2/2017			<0.005				
5/10/2017	0.0023 (J)						
6/27/2017						<0.005	<0.005
6/28/2017				<0.005	<0.005		
6/29/2017			<0.005				
6/30/2017		<0.005					
7/18/2017	0.0046 (J)						
10/18/2017	0.0037 (J)						
2/19/2018	<0.005						
3/27/2018		<0.005					<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
3/28/2018			<0.005	<0.005	<0.005		
3/29/2018						<0.005	
6/7/2018				<0.005			
6/11/2018			<0.005		<0.005		
8/6/2018	0.0047 (J)						
9/25/2018			<0.005	<0.005	<0.005		
2/25/2019	0.0051 (J)						
2/26/2019		<0.005					
2/27/2019						<0.005	<0.005
3/5/2019			<0.005		<0.005		
3/6/2019				<0.005			
3/28/2019						<0.005	<0.005
3/29/2019		0.0019 (J)					
4/2/2019			<0.005				
4/3/2019				<0.005	<0.005		
6/13/2019	0.0048 (J)						
8/20/2019	0.0039 (J)						
9/24/2019						<0.005	<0.005
9/25/2019		<0.005	<0.005				
9/26/2019				<0.005	<0.005		
10/8/2019	0.0031 (J)						
2/10/2020						<0.005	<0.005
2/11/2020			<0.005	<0.005	<0.005		
2/12/2020		<0.005					
3/17/2020	0.0026 (J)						
3/18/2020		<0.005					<0.005
3/19/2020						<0.005	
3/24/2020			<0.005	<0.005	<0.005		
8/27/2020	0.0027 (J)						
9/23/2020	0.0031 (J)		<0.005	<0.005	<0.005	<0.005	<0.005
9/25/2020		<0.005					
2/9/2021				<0.005	<0.005		
2/10/2021		<0.005					
2/12/2021						<0.005	<0.005
3/2/2021		<0.005					
3/3/2021	0.002 (J)		<0.005	<0.005	<0.005	<0.005	<0.005
8/18/2021	0.0016 (J)						
8/19/2021		<0.005				<0.005	<0.005
8/26/2021					<0.005		
8/27/2021			<0.005	<0.005			
2/8/2022	<0.005						
2/9/2022			<0.005	<0.005	<0.005	<0.005	<0.005
2/10/2022		0.0014 (J)					
8/30/2022	<0.005		<0.005	<0.005	<0.005	<0.005	
8/31/2022		<0.005					<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016							<0.005
6/2/2016				<0.005		<0.005	
6/7/2016	<0.005	0.00048 (J)					
7/25/2016				<0.005			<0.005
7/26/2016						<0.005	
7/27/2016	<0.005						
7/28/2016		<0.005					
9/14/2016			<0.005				<0.005
9/15/2016						<0.005	
9/19/2016	<0.005	0.0014 (J)		<0.005			
11/1/2016				<0.005		<0.005	<0.005
11/2/2016	<0.005						
11/3/2016		<0.005					
11/4/2016			<0.005				
12/15/2016			<0.005				
1/11/2017						<0.005	<0.005
1/13/2017	<0.005	<0.005					
1/16/2017			<0.005	<0.005			
2/21/2017				<0.005			
3/1/2017							<0.005
3/2/2017						<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
4/28/2017			<0.005				
5/26/2017			<0.005				
6/28/2017			<0.005			<0.005	<0.005
6/29/2017	<0.005	<0.005					
6/30/2017				<0.005			
10/11/2017					<0.005		
11/20/2017					<0.005		
1/11/2018					<0.005		
2/20/2018					<0.005		
3/27/2018				<0.005			
3/28/2018			<0.005			<0.005	<0.005
3/29/2018	<0.005	<0.005					
4/3/2018					<0.005		
6/5/2018		<0.005					
6/6/2018	<0.005						
6/28/2018					<0.005		
8/7/2018					<0.005		
9/24/2018					0.0015 (J)		
9/25/2018	<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					
3/29/2019			<0.005				
4/1/2019				<0.005		<0.005	<0.005
4/2/2019		<0.005					
4/3/2019	<0.005						
8/21/2019					<0.005		
9/24/2019		<0.005	<0.005				

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
9/25/2019	<0.005			<0.005		<0.005	<0.005
10/9/2019					<0.005		
2/11/2020			<0.005				<0.005
2/12/2020	<0.005	<0.005		<0.005	<0.005	<0.005	
3/19/2020			<0.005	<0.005		<0.005	<0.005
3/24/2020	<0.005	<0.005					
3/25/2020					<0.005		
9/23/2020			<0.005			<0.005	<0.005
9/24/2020	<0.005	<0.005		<0.005	<0.005		
2/9/2021	<0.005	<0.005					
2/10/2021			<0.005		<0.005	<0.005	<0.005
2/11/2021				<0.005			
3/1/2021				<0.005			
3/3/2021	<0.005		<0.005			<0.005	<0.005
3/4/2021		<0.005			<0.005		
8/19/2021				<0.005		<0.005	
8/26/2021					<0.005		
8/27/2021	<0.005		<0.005				<0.005
9/1/2021		<0.005					
2/8/2022					<0.005		
2/9/2022	<0.005	<0.005	<0.005			<0.005	<0.005
2/11/2022				<0.005			
8/30/2022		<0.005	<0.005				
8/31/2022	<0.005			<0.005	<0.005	<0.005	<0.005

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016			<0.005	<0.005	<0.005
7/26/2016			0.0009 (J)	<0.005	0.0009 (J)
8/30/2016		0.0017 (J)			
9/14/2016			<0.005	<0.005	<0.005
11/2/2016			<0.005	<0.005	
11/4/2016					<0.005
11/14/2016		<0.005			
1/12/2017				<0.005	<0.005
1/13/2017			<0.005		
2/24/2017		0.0011 (J)			
3/6/2017			<0.005		
3/7/2017				<0.005	<0.005
5/1/2017			<0.005	<0.005	
5/2/2017					<0.005
5/8/2017		<0.005			
6/27/2017				<0.005	<0.005
6/29/2017			<0.005		
7/11/2017		<0.005			
10/10/2017		<0.005			
10/12/2017	<0.005				
11/20/2017	0.0042 (J)				
1/10/2018	0.0043 (J)				
2/19/2018	<0.005				
3/29/2018			<0.005	<0.005	<0.005
4/2/2018		<0.005			
4/3/2018	<0.005				
6/6/2018				<0.005	
6/7/2018			<0.005		<0.005
6/28/2018	0.0032 (J)				
8/7/2018	0.0031 (J)				
9/19/2018		<0.005			
9/24/2018	0.0026 (J)				
9/26/2018			<0.005	<0.005	<0.005
3/4/2019			<0.005	<0.005	<0.005
4/3/2019			<0.005	<0.005	<0.005
8/20/2019		<0.005			
8/21/2019	0.0024 (J)				
9/24/2019				<0.005	<0.005
9/25/2019			<0.005		
10/9/2019	0.0026 (J)				
2/12/2020	0.002 (J)		<0.005	<0.005	<0.005
3/24/2020	0.002 (J)			<0.005	<0.005
3/25/2020			<0.005		
8/27/2020		<0.005			
9/22/2020			<0.005	<0.005	<0.005
9/24/2020	0.0016 (J)				
2/8/2021				<0.005	<0.005
2/9/2021			<0.005		
2/10/2021	<0.005				
3/2/2021				<0.005	<0.005
3/3/2021			0.0019 (J)		
3/4/2021	<0.005				

Time Series

Constituent: Selenium (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
8/19/2021		<0.005			
8/26/2021			<0.005	<0.005	<0.005
9/3/2021	<0.005				
2/8/2022	0.0014 (J)	<0.005			
2/10/2022				<0.005	<0.005
2/11/2022			<0.005		
8/30/2022				<0.005	<0.005
8/31/2022	<0.005	<0.005	<0.005		

Time Series

Constituent: Silver (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

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 10/21/2022 3:07 PM View: Constituents View

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						
2/8/2022	<0.005	<0.005		<0.005	<0.005		<0.005
2/9/2022			<0.005			<0.005	
8/30/2022	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005
8/31/2022			<0.005				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	29	410	140	87			
9/1/2016					150	990	360
11/28/2016	36		120				
11/29/2016		450					320
11/30/2016				76	50		
12/1/2016						1100	
2/22/2017	43		100				
2/23/2017		390		47			380
2/24/2017					110	850	
5/8/2017	60						
5/9/2017		280		41			
5/10/2017			80		70	1000	660
7/17/2017	63					830	
7/18/2017		200	57	44	50		880
10/16/2017	62					720	
10/17/2017		180	59		58		
10/18/2017				53			760
2/19/2018	64.6						718
2/20/2018			55.9		64.6		
2/21/2018		146		46.7		533	
8/6/2018	42.1						797
8/7/2018		100		38.8		784	
8/8/2018			81.1		79.5		
2/25/2019	42.1						763
2/26/2019		118	129	49.3	55.8	742	
6/12/2019	83.4		180		92.8		
6/13/2019		163		77.1		976	918
10/8/2019	128						664
10/9/2019		318	91.2			1180	
10/10/2019				48	68.7		
3/17/2020	98.6	145		95.2			303
3/18/2020			200		199	960	
9/22/2020	145	478	216	55.1	72.1		
9/23/2020						992	518
3/1/2021		525	244		177		
3/2/2021	156			95.5		906	
3/3/2021							476
8/18/2021		675	223	114	118	946	345
8/20/2021	121						
2/8/2022	107	687		93.5	146		260
2/9/2022			241			937	
8/30/2022	101	994		76	155	939	174
8/31/2022			280				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					5	4.2	
6/2/2016	6.6						
6/6/2016			1.2	1.8			
6/7/2016		4.4					<1
7/25/2016						3.7	
7/26/2016	6.1				5.4		
7/27/2016		4.7	1.7	1.9			0.08 (J)
9/13/2016					2.9	5.2	
9/15/2016	6.1						
9/16/2016		4.8		1.7			
9/19/2016			1.8				0.08 (J)
11/1/2016					3.9		
11/2/2016	6.3						0.1 (J)
11/3/2016		5.3	0.69 (J)	1.9			
11/4/2016						5	
1/10/2017	5.9						
1/11/2017		5.2	<1	1.7	3.7		
1/13/2017							<1
1/16/2017						7.9	
3/1/2017			1.8	<1			
3/2/2017		5			4.6	7.4	
3/6/2017							<1
3/8/2017	7						
4/26/2017	7		1.6	1.9			<1
4/27/2017					5.2	7.4	
5/2/2017		5					
6/27/2017					5.9	6.4	
6/28/2017			<1	<1			
6/29/2017		5.2					<1
6/30/2017	6.5						
10/3/2017					6.6	5.9	
10/4/2017		5.3		1.7			<1
10/5/2017	7.9		1.6				
6/5/2018					6.4		
6/6/2018						4.4	0.049 (J)
6/7/2018			0.68 (J)				
6/8/2018	6.4						
6/11/2018		5.2		0.95 (J)			
9/25/2018		6.1	1	1.5			0.13 (J)
10/1/2018	6.8				5.6	4	
3/28/2019					8	4.3	
3/29/2019	7.3						
4/2/2019		5.1					
4/3/2019			0.82 (J)	1.3			0.12 (J)
9/24/2019					5.3	4.3	
9/25/2019	6.6	5.5					<1
9/26/2019			0.64 (J)	1			
3/18/2020	8.1					5.3	
3/19/2020					10		
3/24/2020		5.4	<1	0.99 (J)			<1
9/23/2020		5.1	0.53 (J)	1.1	8.1	3.4	
9/24/2020							<1

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/25/2020	6.1						
3/2/2021	6						
3/3/2021		5.2	<1	1	9	4.4	<1
8/19/2021	6.7				8.9	4.9	
8/26/2021				1.2			
8/27/2021		5.3	0.59 (J)				<1
2/9/2022		4.8	0.51 (J)	1.1	9.3	5.1	<1
2/10/2022	6.2						
8/30/2022		4.7	0.78 (J)	1.3	10.2		
8/31/2022	5.8					4.8	<1

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						12	
6/2/2016			1.3		5.8		
6/7/2016	5.2						
7/25/2016			1.2			8.4	
7/26/2016					6.7		
7/28/2016	5.1						
9/14/2016		9.4				8.6	
9/15/2016					6		
9/19/2016	4.8		1.2				
11/1/2016			1.3		4.9	8.9	
11/3/2016	5						
11/4/2016		13					
12/15/2016		1.8					
1/11/2017					4.5	8.6	
1/13/2017	4.3						
1/16/2017		11	<1				
2/21/2017			1.4				
3/1/2017						9.3	
3/2/2017					4.4		
3/3/2017		8.8					
3/6/2017	4.5						
4/26/2017	4.9		1.4		5.1	11	
4/28/2017		10					
5/26/2017		12					
6/28/2017		11			5.4	12	
6/29/2017	5.5						
6/30/2017			<1				
10/3/2017	5.8	7.9					
10/4/2017			1.4		6.2	12	
10/11/2017				20			
10/12/2017							17
11/20/2017				24			71
1/10/2018							66
1/11/2018				23			
2/19/2018							57.2
2/20/2018				20.6			
4/3/2018				24.5			49.4
6/5/2018	6.1						
6/7/2018		8.8			6.7		
6/8/2018						9.6	
6/11/2018			1.1				
6/28/2018				22			43.8
8/7/2018				20.7			40.5
9/24/2018				21.2			39.7
9/25/2018	7						
10/1/2018		9.1			7.1	9.1	
10/2/2018			1				
3/26/2019							34.3
3/27/2019				17.7			
3/29/2019		9					
4/1/2019			0.96 (J)		7.2	8.5	
4/2/2019	3.8						

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
9/24/2019	1	9.1					
9/25/2019			0.81 (J)		7	13.8	
10/9/2019				15			27.9
3/19/2020		12.4	1.6		9	12.9	
3/24/2020	3						25.2
3/25/2020				14.3			
9/23/2020		11.8			6.9	16.8	
9/24/2020	3.6		0.69 (J)	11.7			22.9
3/1/2021			0.88 (J)				
3/3/2021		10.6			7	9.6	
3/4/2021	4.5			12			21.5
8/19/2021			1		7.5		
8/26/2021				19.2			
8/27/2021		16.7				18.2	
9/1/2021	5						
9/3/2021							21.3
2/8/2022				14.6			17.9
2/9/2022	3.9	18			7.2	16	
2/11/2022			2.8				
8/30/2022	3.2	20.1					
8/31/2022			1.1	10.9	6.9	13.9	17.9

Time Series

Constituent: Sulfate (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		8	20	1.9
7/26/2016		7.7	20	1.8
8/30/2016	160			
9/14/2016		7.5	19	1.8
11/2/2016		8.2	20	
11/4/2016				2
11/14/2016	150			
1/12/2017			19	1.9
1/13/2017		8.1		
2/24/2017	120			
3/6/2017		8		
3/7/2017			20	2.1
5/1/2017		8.4	20	
5/2/2017				2
5/8/2017	120			
6/27/2017			18	2.1
6/29/2017		9.2		
7/11/2017	110			
10/3/2017			16	2.3
10/5/2017		9.6		
10/10/2017	93			
4/2/2018	88.8			
6/6/2018			8.3	
6/7/2018		8.5		2
9/19/2018	75			
9/26/2018		10.2	7.9	2.3
3/27/2019	65.9			
4/3/2019		8.5	7	2.1
9/24/2019			5.5	2.4
9/25/2019		8.5		
10/8/2019	52.3			
3/17/2020	71.6			
3/24/2020			5.9	2.1
3/25/2020		8.8		
9/22/2020	51.5	8.2	5.5	2.1
3/1/2021	51.6			
3/2/2021			2.6	2.3
3/3/2021		7.8		
8/19/2021	52.6			
8/26/2021		8.5	6	2.4
2/8/2022	50.9			
2/10/2022			4.9	2.4
2/11/2022		7.7		
8/30/2022			5.7	2.4
8/31/2022	48	8		

Time Series

Constituent: TDS (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	209	616	257	216			
9/1/2016					553	1400	578
11/28/2016	102		177				
11/29/2016		594					455
11/30/2016				177 (B)	247 (B)		
12/1/2016						1610 (B)	
2/22/2017	164		240				
2/23/2017		581		105			614
2/24/2017					414	1200	
5/8/2017	145						
5/9/2017		410		77			
5/10/2017			149		251	1360	955
7/17/2017	185					1340	
7/18/2017		322	122	89	179		1270
10/16/2017	218					1080	
10/17/2017		381	214		256		
10/18/2017				166			1150
2/19/2018	173						1070
2/20/2018			131		233		
2/21/2018		285		105		830	
8/6/2018	158						1260
8/7/2018		242		99		1180	
8/8/2018			166		292		
2/25/2019	92						1160
2/26/2019		69	293	109	226	1010	
6/12/2019	226		391		298		
6/13/2019		301		136		1410	1310
10/8/2019	276						1050
10/9/2019		526	372			1680	
10/10/2019				109	247		
3/17/2020	185	306		175			588
3/18/2020			351		703	1520	
9/22/2020	281	675	394	110	217		
9/23/2020						1000	820
3/1/2021		974	516		666		
3/2/2021	296 (D)			167		980	
3/3/2021							942
8/18/2021		1200	474	214	630	1660	682
8/20/2021	254						
2/8/2022	283	1310		231	648		549
2/9/2022			466			1440	
8/30/2022	244	1600		150	628	1570	400
8/31/2022			510				

Time Series

Constituent: TDS (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					120	54	
6/2/2016	46						
6/6/2016			120	58			
6/7/2016		28					38
7/25/2016						48	
7/26/2016	54				94		
7/27/2016		74	94	35			74
9/13/2016					105	67	
9/15/2016	54						
9/16/2016		67		35			
9/19/2016			92				45
11/1/2016					44		
11/2/2016	71						53
11/3/2016		41	104	48			
11/4/2016						60	
1/10/2017	45						
1/11/2017		104	133	95	107		
1/13/2017							46
1/16/2017						65	
3/1/2017			119	79			
3/2/2017		77			98	61	
3/6/2017							164
3/8/2017	178						
4/26/2017	52		162	36			34
4/27/2017					116	31	
5/2/2017		142					
6/27/2017					89	42	
6/28/2017			98	45			
6/29/2017		53					68
6/30/2017	45						
10/3/2017					119	58	
10/4/2017		61		45			54
10/5/2017	40		104				
6/5/2018					127		
6/6/2018						96	79
6/7/2018			68				
6/8/2018	114						
6/11/2018		70		74			
9/25/2018		86	109	63			73
10/1/2018	50				117	60	
3/28/2019					87	87	
3/29/2019	63						
4/2/2019		72					
4/3/2019			89	63			57
9/24/2019					124	54	
9/25/2019	64	81					75
9/26/2019			126	72			
3/18/2020	57					35	
3/19/2020					116		
3/24/2020		71	91	59			76
9/23/2020		99	103	81	108	15	
9/24/2020							69

Time Series

Constituent: TDS (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/25/2020	54						
3/2/2021	67						
3/3/2021		57	95	37	99	39	53
8/19/2021	54				105	44	
8/26/2021				31			
8/27/2021		93	112				67
2/9/2022		81	103	60	105	57	72
2/10/2022	56						
8/30/2022		81	100	52	116		
8/31/2022	51					46	62

Time Series

Constituent: TDS (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						150	
6/2/2016			36		130		
6/7/2016	60						
7/25/2016			50			135	
7/26/2016					141		
7/28/2016	81						
9/14/2016		152				127	
9/15/2016					153		
9/19/2016	68		35				
11/1/2016			<25		92	75	
11/3/2016	61						
11/4/2016		148					
12/15/2016		191					
1/11/2017					159	148	
1/13/2017	76						
1/16/2017		180	47				
2/21/2017			<25				
3/1/2017						182	
3/2/2017					117		
3/3/2017		156					
3/6/2017	167						
4/26/2017	50		55		181	92	
4/28/2017		130					
5/26/2017		223					
6/28/2017		166			169	126	
6/29/2017	94						
6/30/2017			42				
10/3/2017	149	153					
10/4/2017			31		141	147	
10/11/2017				68			
10/12/2017							74
11/20/2017				139			179
1/10/2018							140
1/11/2018				153			
2/19/2018							119
2/20/2018				87			
4/3/2018				85			106
6/5/2018	109						
6/7/2018		146			95		
6/8/2018						158	
6/11/2018			59				
6/28/2018				88			112
8/7/2018				89			103
9/24/2018				82			107
9/25/2018	122						
10/1/2018		155			165	138	
10/2/2018			57				
3/26/2019							90
3/27/2019				75			
3/29/2019		150					
4/1/2019			54		149	19 (J)	
4/2/2019	134						

Time Series

Constituent: TDS (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
9/24/2019	157	146					
9/25/2019			51		157	159	
10/9/2019				119			98
3/19/2020		148	47		146	148	
3/24/2020	117						84
3/25/2020				158			
9/23/2020		161			157	155	
9/24/2020	113		51	170			77
3/1/2021			23				
3/3/2021		138			137	111	
3/4/2021	110			168			57
8/19/2021			50		144		
8/26/2021				249			
8/27/2021		150				155	
9/1/2021	137						
9/3/2021							88
2/8/2022				248			93
2/9/2022	131	156			154	145	
2/11/2022			66				
8/30/2022	122	153					
8/31/2022			33	242	141	137	92

Time Series

Constituent: TDS (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		96	160	66
7/26/2016		92	177	78
8/30/2016	319			
9/14/2016		102	187	73
11/2/2016		115	181	
11/4/2016				75
11/14/2016	280			
1/12/2017			202	86
1/13/2017		67		
2/24/2017	162			
3/6/2017		159		
3/7/2017			257	108
5/1/2017		107	165	
5/2/2017				103
5/8/2017	194			
6/27/2017			189	73
6/29/2017		79		
7/11/2017	193			
10/3/2017			170	89
10/5/2017		95		
10/10/2017	175			
4/2/2018	192			
6/6/2018			151	
6/7/2018		90		142
9/19/2018	186			
9/26/2018		116	144	86
3/27/2019	170			
4/3/2019		111	142	83
9/24/2019			129	79
9/25/2019		117		
10/8/2019	172			
3/17/2020	165			
3/24/2020			139	68
3/25/2020		146		
9/22/2020	141	83	104	75
3/1/2021	145			
3/2/2021			52	67
3/3/2021		80		
8/19/2021	134			
8/26/2021		93	123	86
2/8/2022	151			
2/10/2022			127	77
2/11/2022		102		
8/30/2022			148	86
8/31/2022	116	92		

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

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	<0.001						
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)				
8/31/2016	<0.001	<0.001	<0.001	<0.001			
9/1/2016					<0.001	<0.001	<0.001
11/28/2016	<0.001		<0.001				
11/29/2016		<0.001					<0.001
11/30/2016				<0.001	<0.001		
12/1/2016						<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	
5/8/2017	6E-05 (J)						
5/9/2017		<0.001		<0.001			
5/10/2017			<0.001		<0.001	<0.001	<0.001
7/17/2017	6E-05 (J)					<0.001	

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
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	
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	
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)	
10/8/2019	<0.001						<0.001
10/9/2019		<0.001	<0.001			<0.001	
10/10/2019				<0.001	<0.001		
3/17/2020	<0.001	<0.001		<0.001			<0.001
3/18/2020			<0.001		<0.001	<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
3/1/2021		<0.001	<0.001		<0.001		
3/2/2021	<0.001			<0.001		<0.001	
3/3/2021							<0.001
8/18/2021		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/20/2021	<0.001						
2/8/2022	<0.001	<0.001		<0.001	<0.001		<0.001
2/9/2022			<0.001			<0.001	
8/30/2022	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001
8/31/2022			<0.001				

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					<0.001	<0.001	
6/2/2016	<0.001						
6/6/2016			<0.001	<0.001			
6/7/2016		<0.001					<0.001
7/25/2016						<0.001	
7/26/2016	<0.001				<0.001		
7/27/2016		<0.001	<0.001	<0.001			<0.001
9/13/2016					<0.001	<0.001	
9/15/2016	<0.001						
9/16/2016		<0.001		<0.001			
9/19/2016			<0.001				<0.001
11/1/2016					<0.001		
11/2/2016	<0.001						<0.001
11/3/2016		<0.001	<0.001	<0.001			
11/4/2016						<0.001	
1/10/2017	<0.001						
1/11/2017		<0.001	<0.001	<0.001	<0.001		
1/13/2017							<0.001
1/16/2017						<0.001	
3/1/2017			<0.001	<0.001			
3/2/2017		<0.001			<0.001	<0.001	
3/6/2017							<0.001
3/8/2017	<0.001						
4/26/2017	<0.001		<0.001	<0.001			<0.001
4/27/2017					<0.001	<0.001	
5/2/2017		<0.001					
6/27/2017					<0.001	<0.001	
6/28/2017			<0.001	<0.001			
6/29/2017		<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			
3/29/2018					<0.001		<0.001
2/26/2019	<0.001						
2/27/2019					<0.001	<0.001	
3/5/2019		<0.001		<0.001			<0.001
3/6/2019			<0.001				
4/2/2019		<0.001					
4/3/2019			<0.001	<0.001			<0.001
9/25/2019		<0.001					<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	8.9E-05 (J)						<0.001
3/18/2020	<0.001					<0.001	
3/19/2020					<0.001		
3/24/2020		<0.001	<0.001	<0.001			<0.001
9/23/2020		<0.001	<0.001	<0.001	<0.001	<0.001	
9/24/2020							<0.001
9/25/2020	<0.001						
2/9/2021			<0.001	<0.001			<0.001
2/10/2021	<0.001						

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
2/12/2021					<0.001	<0.001	
2/9/2022		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001						
8/30/2022		<0.001	<0.001	<0.001	<0.001		
8/31/2022	<0.001					<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						<0.001	
6/2/2016			<0.001		<0.001		
6/7/2016	<0.001						
7/25/2016			<0.001			<0.001	
7/26/2016					0.0001 (J)		
7/28/2016	<0.001						
9/14/2016		<0.001				<0.001	
9/15/2016					<0.001		
9/19/2016	<0.001		<0.001				
11/1/2016			<0.001		<0.001	<0.001	
11/3/2016	<0.001						
11/4/2016		<0.001					
12/15/2016		<0.001					
1/11/2017					<0.001	<0.001	
1/13/2017	<0.001						
1/16/2017		<0.001	<0.001				
2/21/2017			<0.001				
3/1/2017						<0.001	
3/2/2017					<0.001		
3/3/2017		<0.001					
3/6/2017	<0.001						
4/26/2017	<0.001		<0.001		<0.001	<0.001	
4/28/2017		<0.001					
5/26/2017		<0.001					
6/28/2017		<0.001			<0.001	<0.001	
6/29/2017	<0.001						
6/30/2017			<0.001				
10/11/2017				<0.001			
10/12/2017							<0.001
11/20/2017				<0.001			<0.001
1/10/2018							<0.001
1/11/2018				<0.001			
2/19/2018							<0.001
2/20/2018				<0.001			
3/27/2018			<0.001				
3/28/2018		<0.001			<0.001	<0.001	
3/29/2018	<0.001						
4/3/2018				<0.001			<0.001
6/28/2018				<0.001			<0.001
8/7/2018				<0.001			<0.001
9/24/2018				<0.001			<0.001
9/25/2018	<0.001						
2/26/2019			<0.001				
2/27/2019		<0.001			<0.001	<0.001	
3/5/2019	<0.001						
4/2/2019	<0.001						
8/21/2019				<0.001			<0.001
9/24/2019	<0.001						
2/11/2020		<0.001				<0.001	
2/12/2020	<0.001		<0.001	<0.001	<0.001		<0.001
3/19/2020		<0.001	<0.001		<0.001	<0.001	
3/24/2020	<0.001						<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
3/25/2020				<0.001			
9/23/2020		<0.001			<0.001	0.00016 (J)	
9/24/2020	<0.001		<0.001	<0.001			<0.001
2/9/2021	<0.001						
2/10/2021		<0.001		<0.001	<0.001	<0.001	<0.001
2/11/2021			<0.001				
2/8/2022				<0.001			<0.001
2/9/2022	<0.001	<0.001			<0.001	<0.001	
2/11/2022			<0.001				
8/30/2022	<0.001	<0.001					
8/31/2022			<0.001	<0.001	<0.001	<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		<0.001	<0.001	<0.001
7/26/2016		<0.001	<0.001	<0.001
8/30/2016	<0.001			
9/14/2016		<0.001	<0.001	<0.001
11/2/2016		<0.001	<0.001	
11/4/2016				<0.001
11/14/2016	<0.001			
1/12/2017			<0.001	<0.001
1/13/2017		<0.001		
2/24/2017	<0.001			
3/6/2017		<0.001		
3/7/2017			<0.001	<0.001
5/1/2017		<0.001	<0.001	
5/2/2017				<0.001
5/8/2017	<0.001			
6/27/2017			<0.001	<0.001
6/29/2017		<0.001		
7/11/2017	<0.001			
10/10/2017	<0.001			
3/29/2018		<0.001	<0.001	<0.001
4/2/2018	<0.001			
9/19/2018	<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)			
9/24/2019			<0.001	<0.001
9/25/2019		<0.001		
10/8/2019	8.4E-05 (J)			
2/12/2020		<0.001	<0.001	<0.001
3/17/2020	<0.001			
3/24/2020			<0.001	<0.001
3/25/2020		<0.001		
8/27/2020	<0.001			
9/22/2020		<0.001	<0.001	<0.001
2/8/2021			<0.001	<0.001
2/9/2021		<0.001		
8/19/2021	<0.001			
2/8/2022	<0.001			
2/10/2022			<0.001	<0.001
2/11/2022		<0.001		
8/30/2022			<0.001	<0.001
8/31/2022	<0.001	<0.001		

Time Series

Constituent: Vanadium (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

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 10/21/2022 3:07 PM View: Constituents View

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						
2/8/2022	<0.01	<0.01		<0.01	<0.01		<0.01
2/9/2022			<0.01			<0.01	
8/30/2022	0.0026 (J)	<0.01		<0.01	<0.01	<0.01	<0.01
8/31/2022			<0.01				

Time Series

Constituent: Zinc (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

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
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					
11/18/2009		0.0038					
3/3/2010		0.0085					
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					
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				
3/4/2012						<0.01	
3/5/2012		0.0059	0.0038		0.0043		0.0034
3/6/2012				0.0032			
9/5/2012			0.0051		0.0069		0.0035
9/10/2012		0.0052				<0.01	
9/11/2012				0.0029			
2/5/2013			<0.01				0.0027
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		
8/14/2013						<0.01	0.0041
2/4/2014			0.0037	0.011		0.0034	
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			
2/2/2015			0.0051	0.0031		<0.01	
2/3/2015					0.0061		0.0044
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)			
2/16/2016		0.0024 (J)	0.0015 (J)		0.0093	0.0017 (J)	0.014
2/17/2016				0.0034			
2/22/2017		0.0042 (J)		0.0024 (J)			
2/23/2017			0.0024 (J)		0.0031 (J)		
2/24/2017						0.0028 (J)	0.0043 (J)
5/8/2017		0.0025 (J)					
5/9/2017			0.0016 (J)		0.0025 (J)		
5/10/2017				0.0022 (J)		0.0014 (J)	0.0042 (J)
7/17/2017		0.0032 (J)					0.0055 (J)

Time Series

Constituent: Zinc (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

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
7/18/2017			0.0015 (J)	0.0017 (J)	0.0028 (J)	0.0015 (J)	
2/19/2018		<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)					
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					
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
10/8/2019		0.0078 (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		
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
3/1/2021			<0.01	<0.01		<0.01	
3/2/2021		0.031			0.0069 (J)		0.022
8/18/2021			<0.01	<0.01	0.011	<0.01	0.026
8/20/2021		0.014					
2/8/2022		0.014	<0.01		0.0098 (J)	<0.01	
2/9/2022				<0.01			0.025
8/30/2022		0.011	<0.01		<0.01	<0.01	0.022
8/31/2022				<0.01			

Time Series

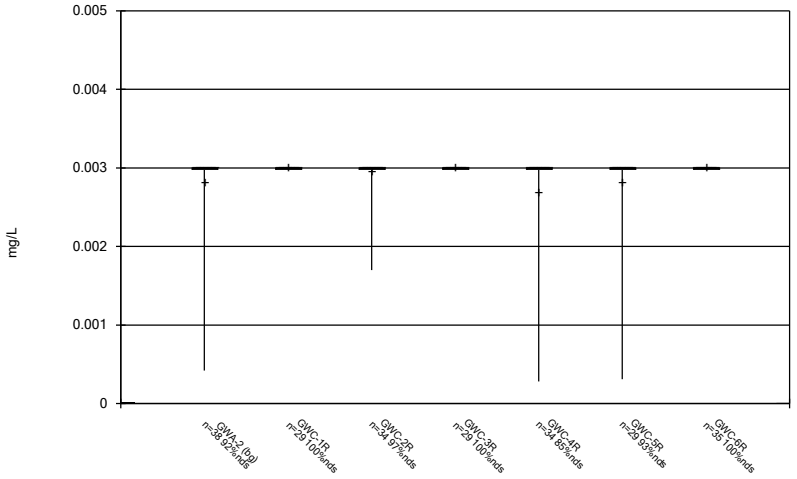
Constituent: Zinc (mg/L) Analysis Run 10/21/2022 3:07 PM View: Constituents View

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	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
2/8/2022	<0.01
8/30/2022	<0.01

FIGURE B.

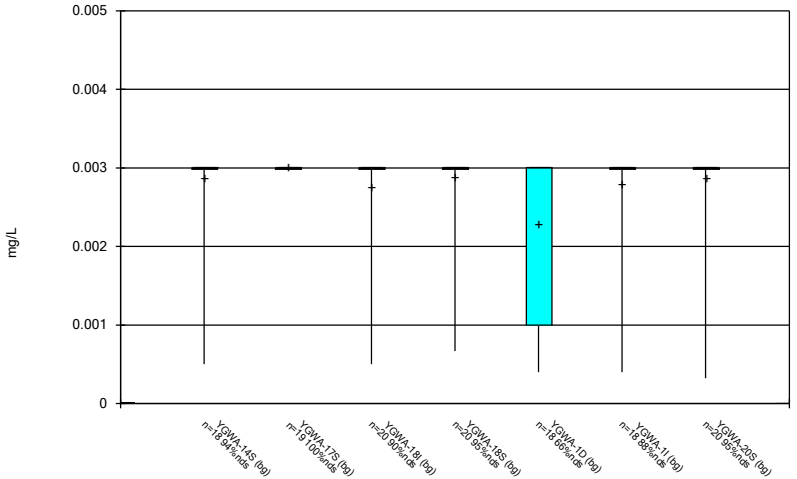
Box & Whiskers Plot



Constituent: Antimony Analysis Run 10/21/2022 3:08 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

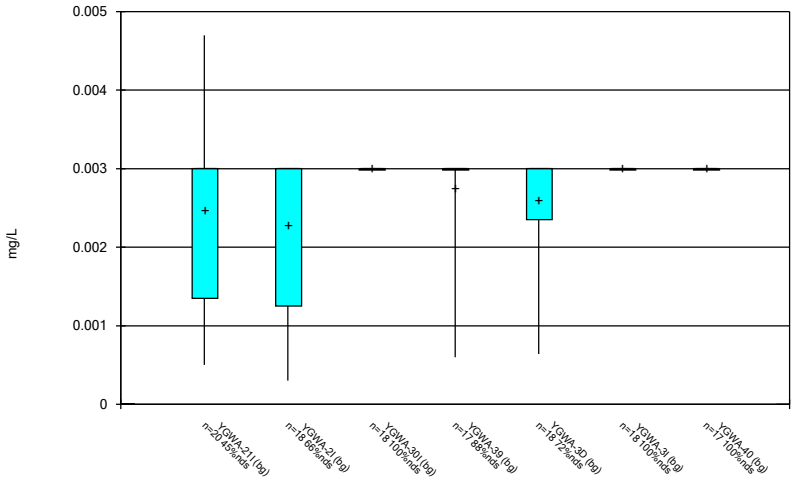
Box & Whiskers Plot



Constituent: Antimony Analysis Run 10/21/2022 3:08 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

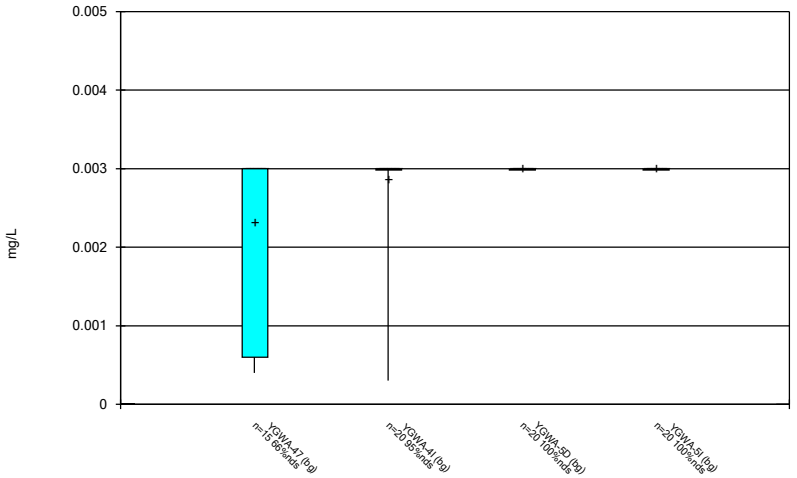
Box & Whiskers Plot



Constituent: Antimony Analysis Run 10/21/2022 3:08 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Box & Whiskers Plot



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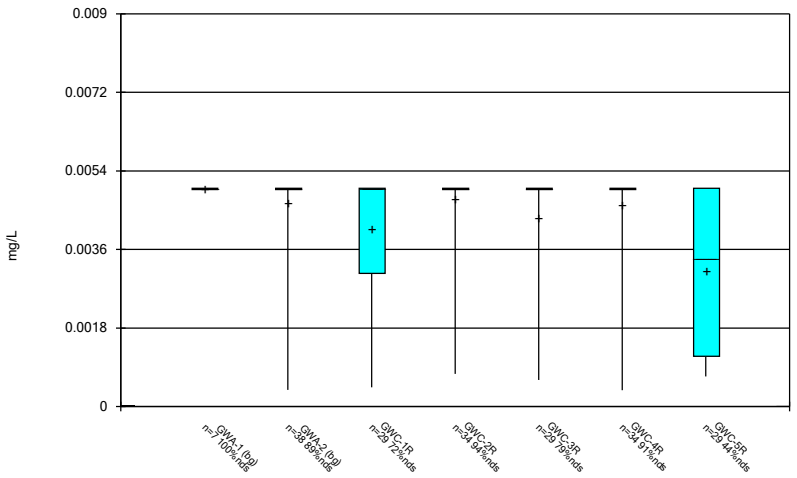
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

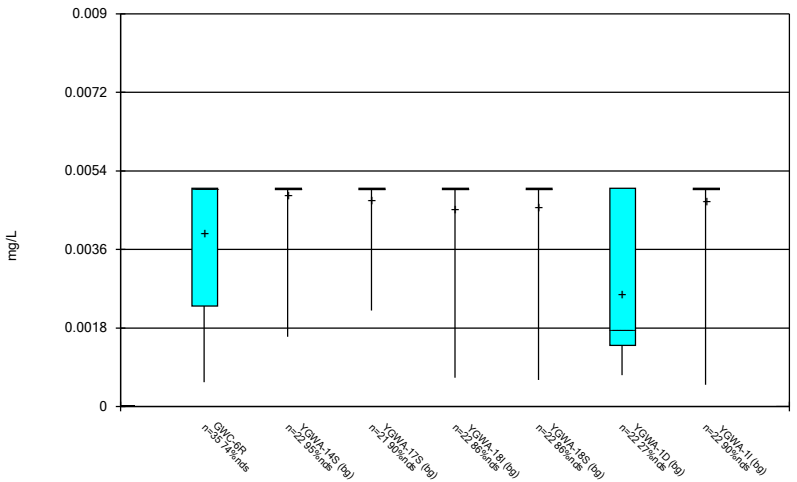
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 10/21/2022 3:08 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

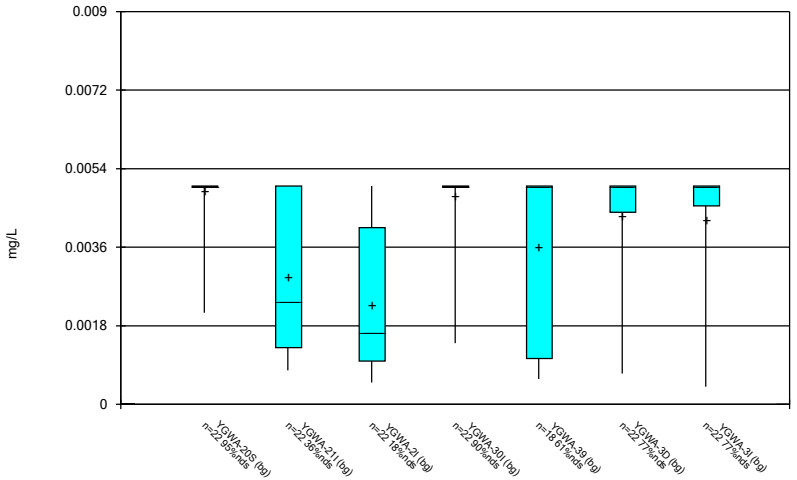
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 10/21/2022 3:08 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Box & Whiskers Plot



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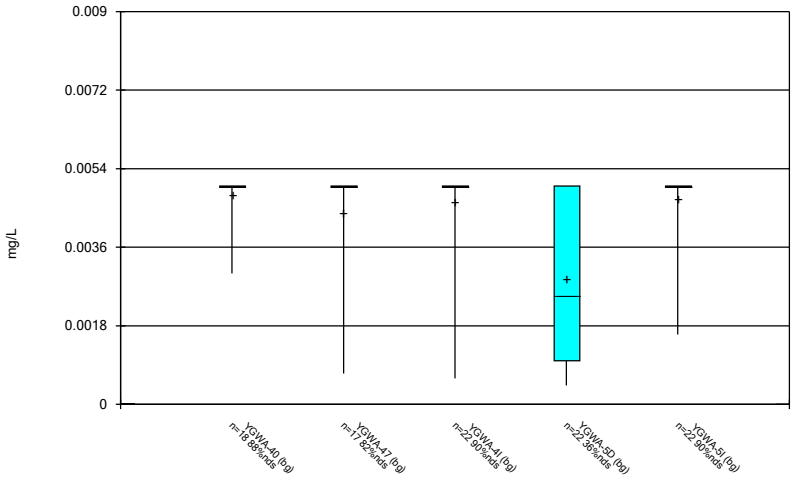
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Box & Whiskers Plot



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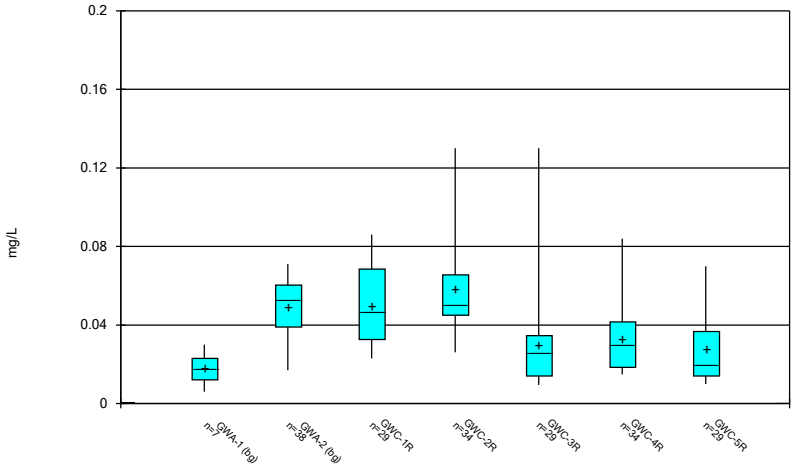
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

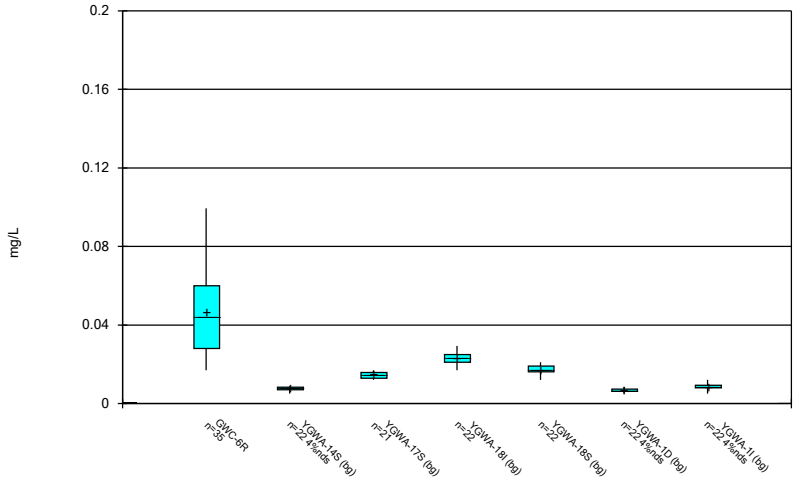
Box & Whiskers Plot



Constituent: Barium Analysis Run 10/21/2022 3:08 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Box & Whiskers Plot



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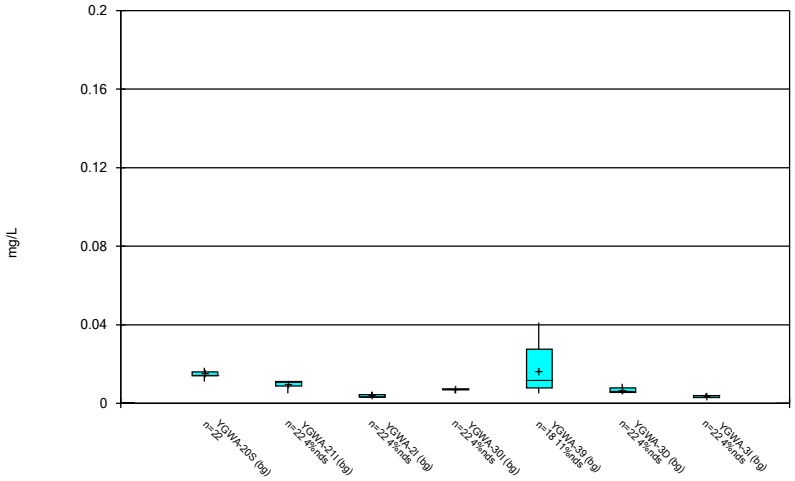
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

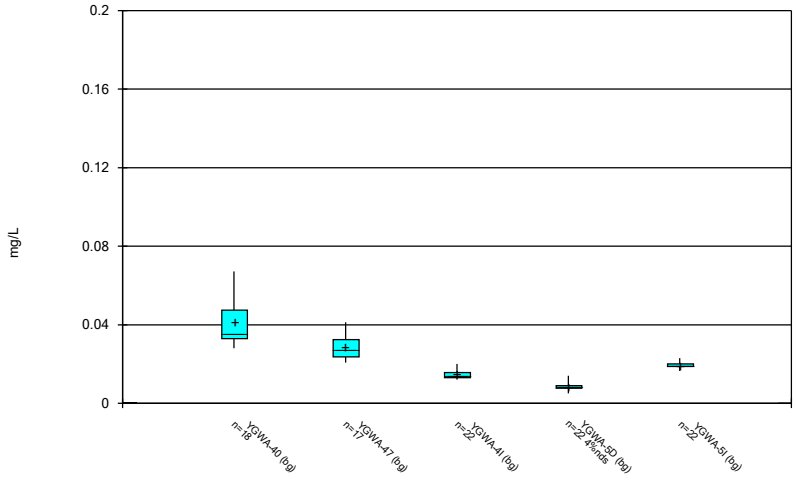
Box & Whiskers Plot



Constituent: Barium Analysis Run 10/21/2022 3:08 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

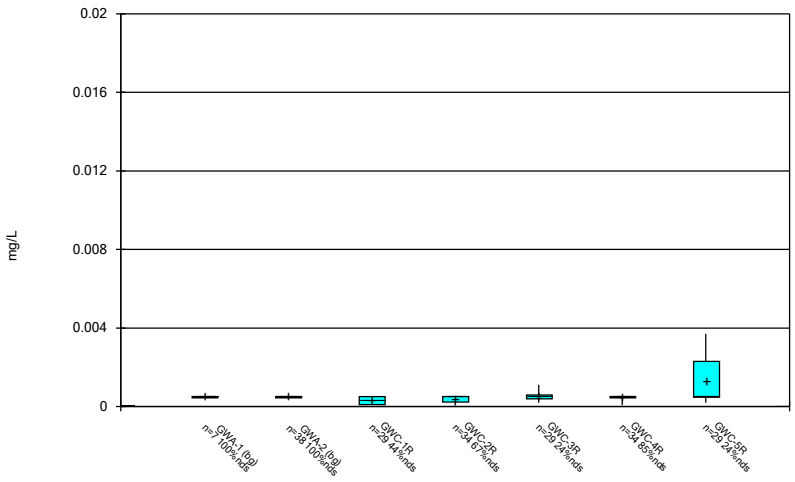
Box & Whiskers Plot



Constituent: Barium Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

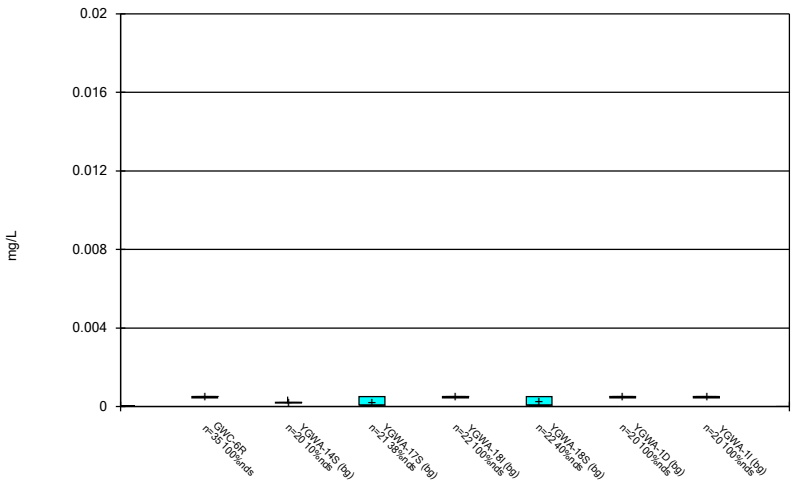
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

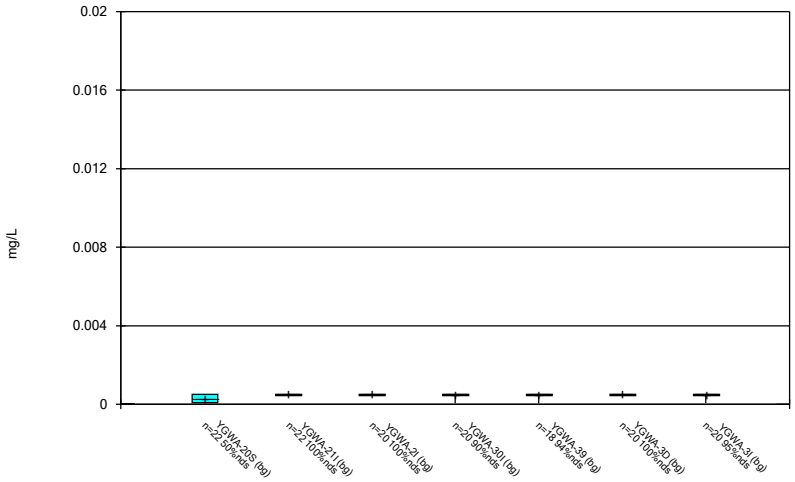
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Box & Whiskers Plot



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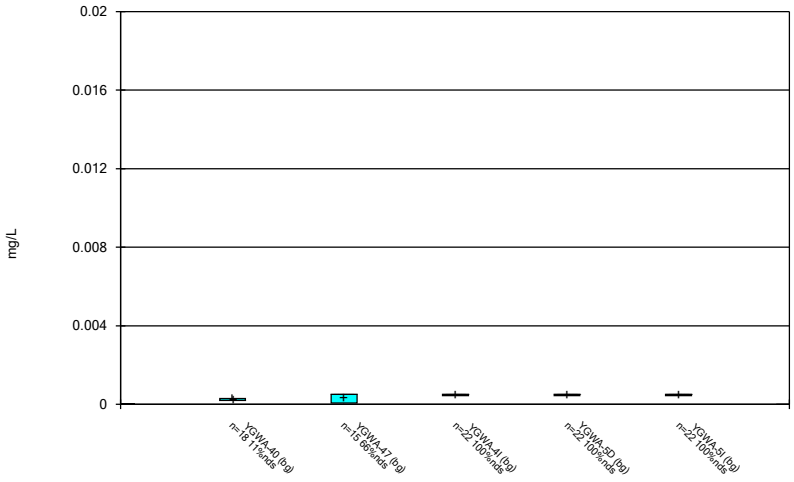
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Box & Whiskers Plot



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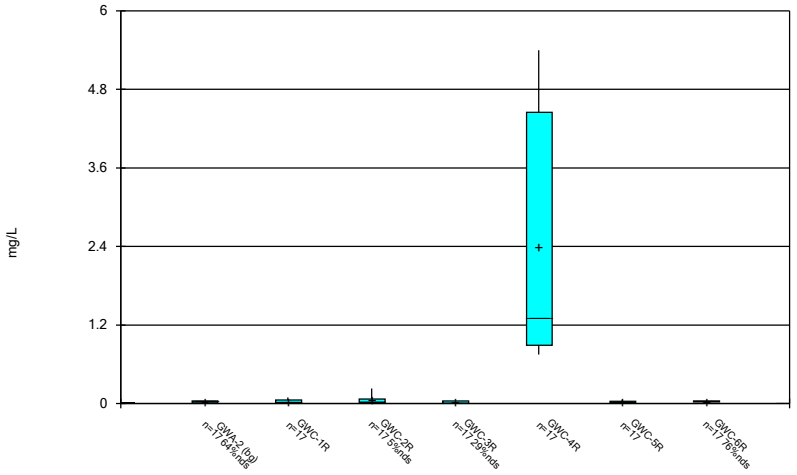
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

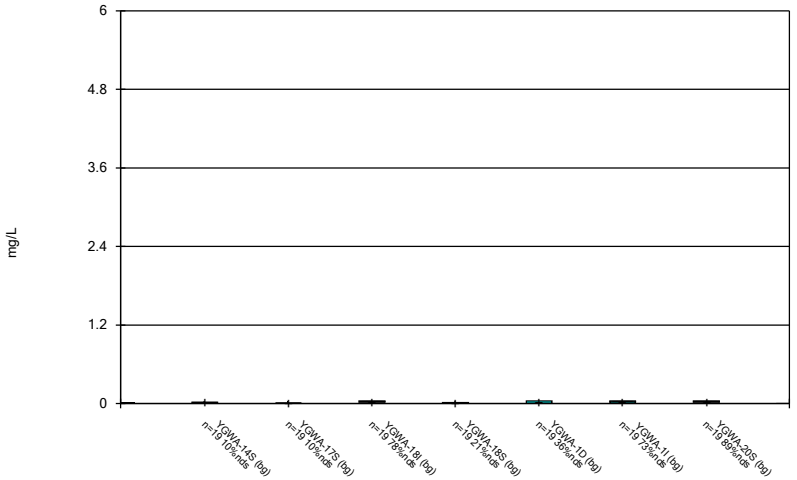
Box & Whiskers Plot



Constituent: Boron Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Box & Whiskers Plot



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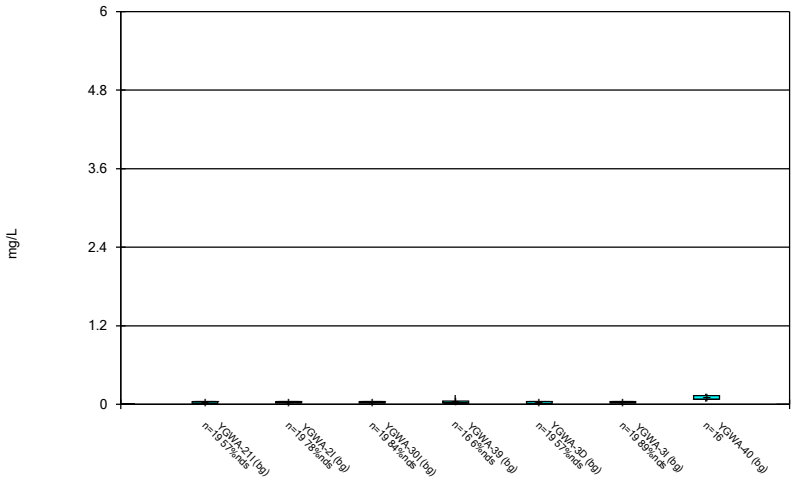
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Box & Whiskers Plot



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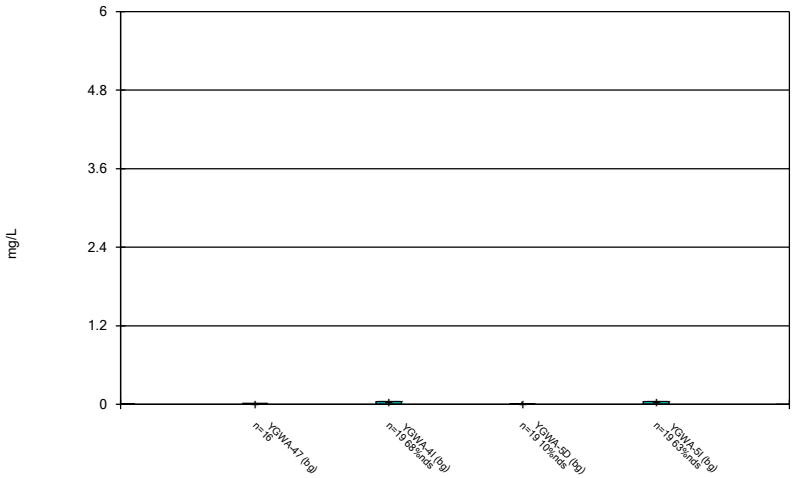
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

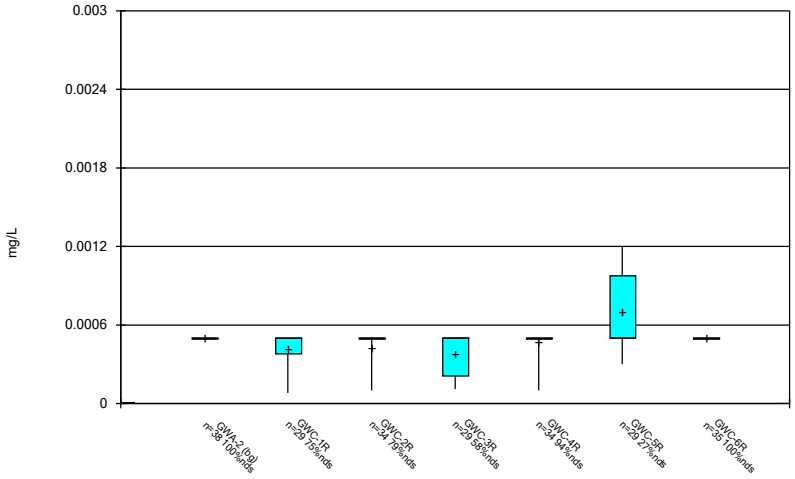
Box & Whiskers Plot



Constituent: Boron Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

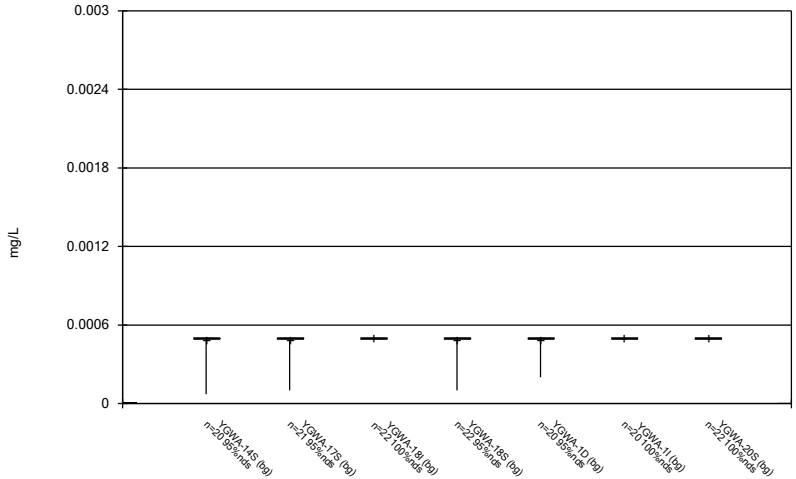
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

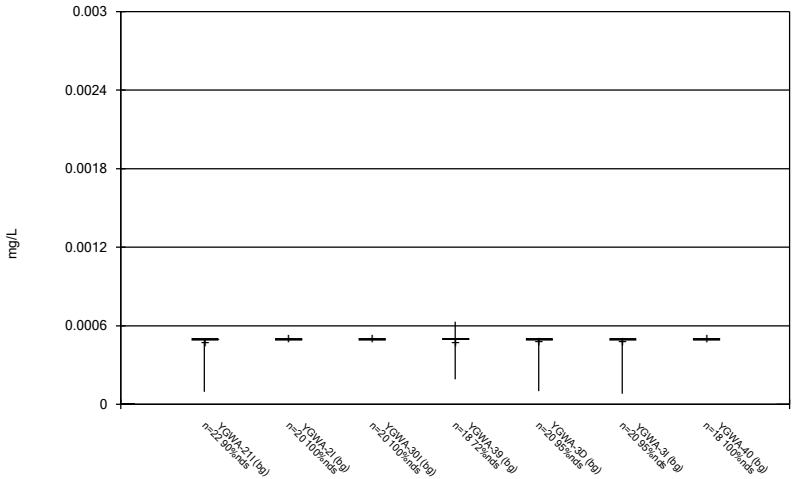
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

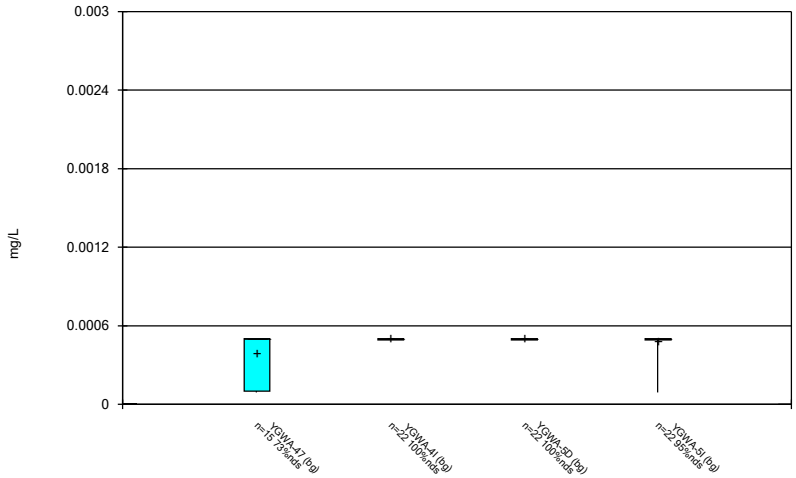
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

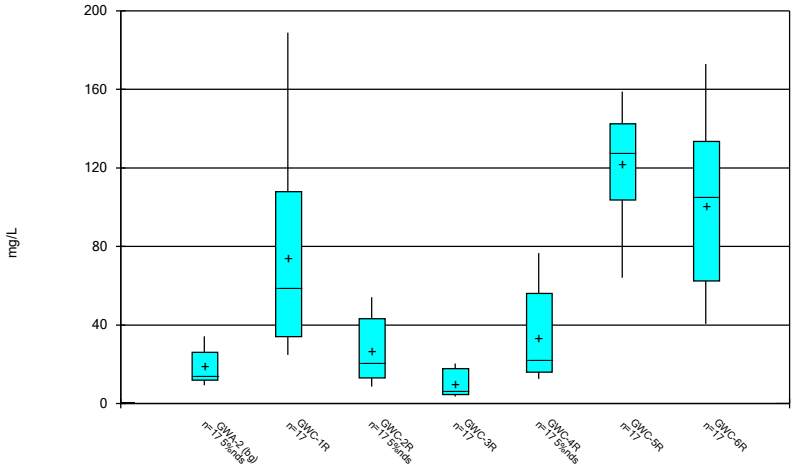
Sanitas™ v.9.6.35 . UG

Box & Whiskers Plot



Constituent: Cadmium Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

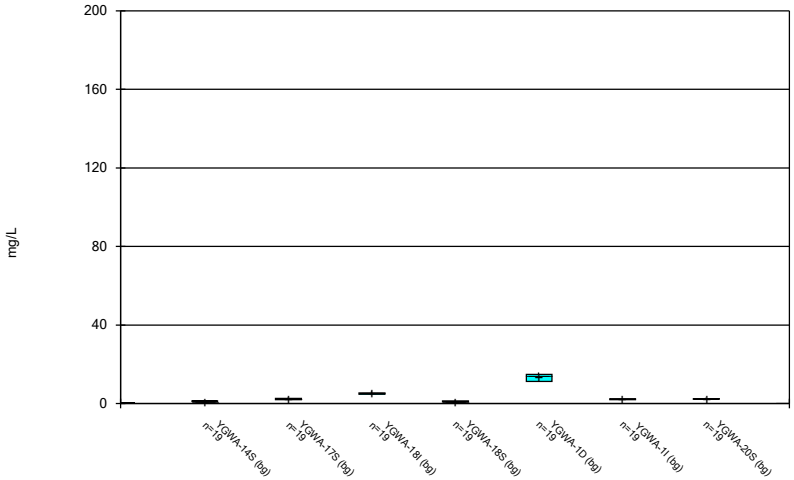
Box & Whiskers Plot



Constituent: Calcium Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

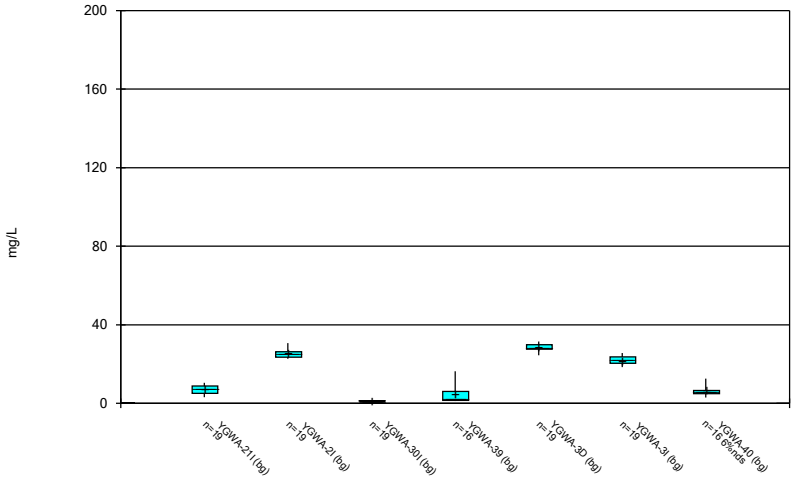
Box & Whiskers Plot



Constituent: Calcium Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

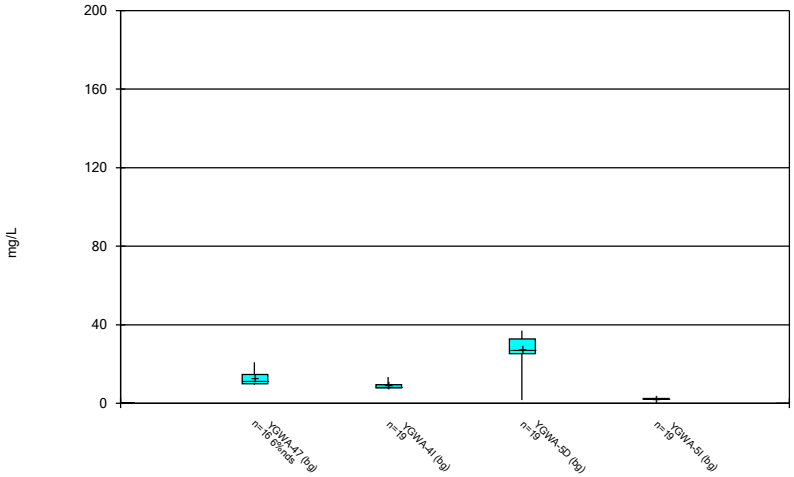
Box & Whiskers Plot



Constituent: Calcium Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

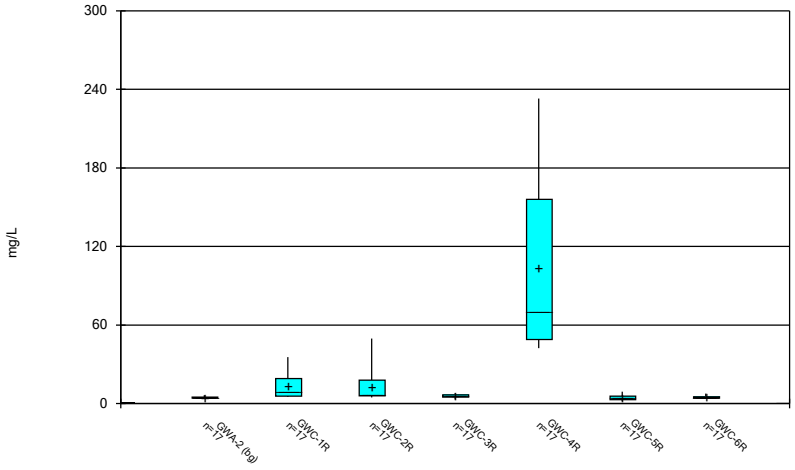
Box & Whiskers Plot



Constituent: Calcium Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

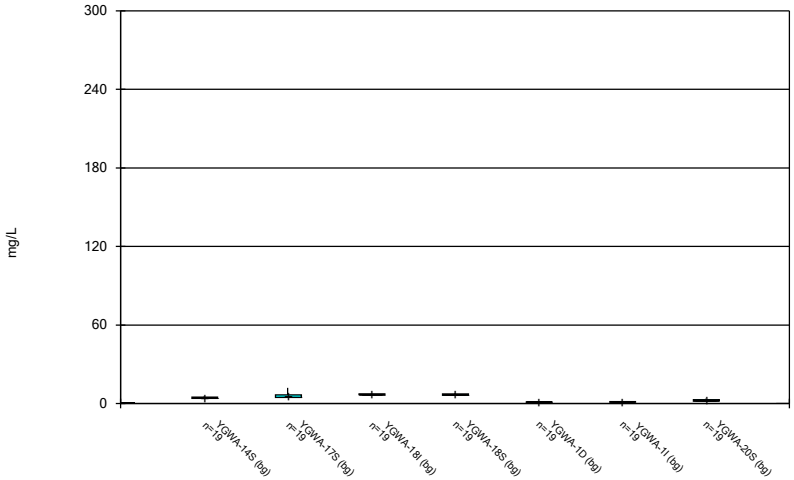
Box & Whiskers Plot



Constituent: Chloride Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

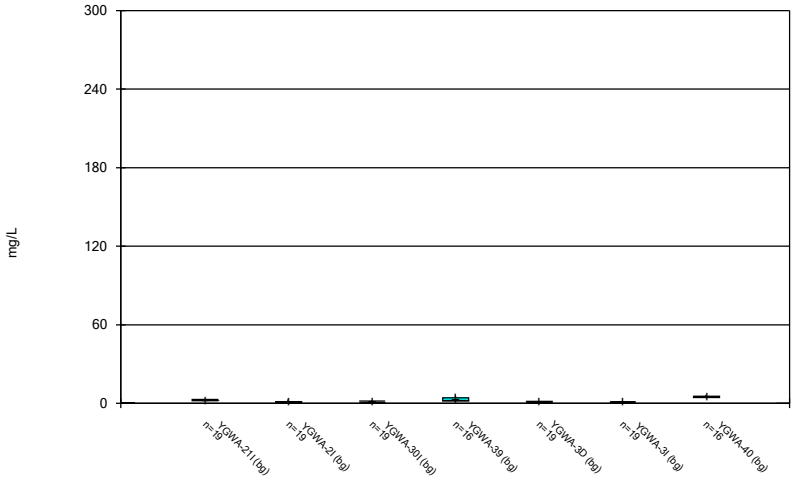
Box & Whiskers Plot



Constituent: Chloride Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Box & Whiskers Plot



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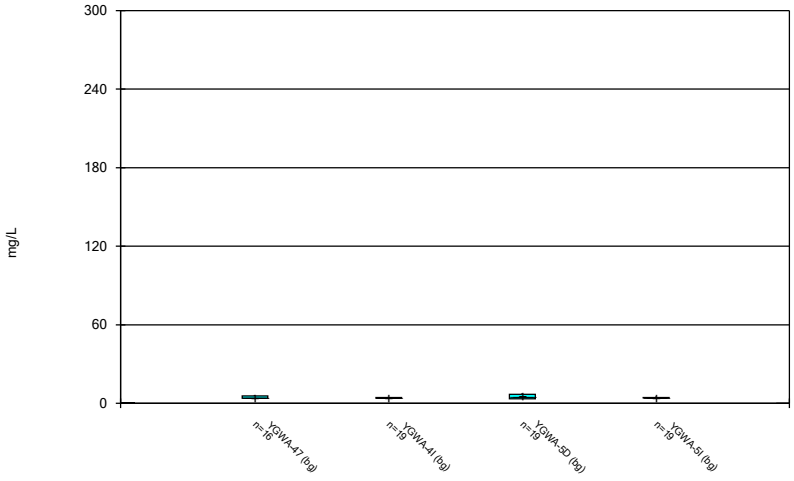
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Box & Whiskers Plot



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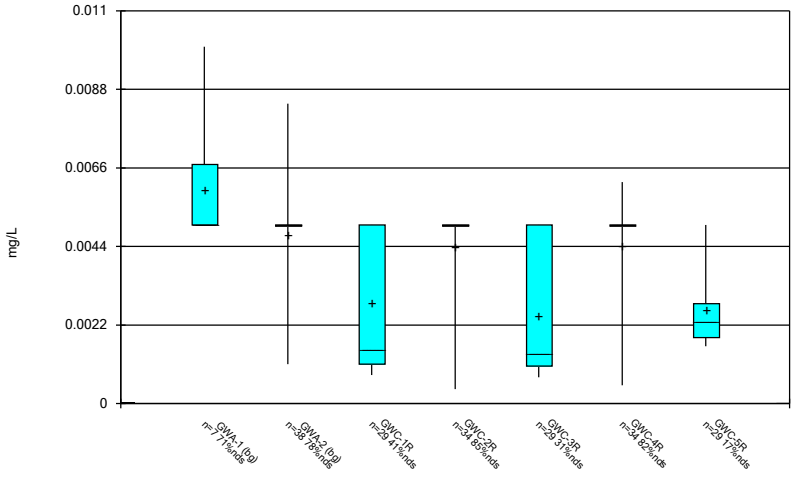
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

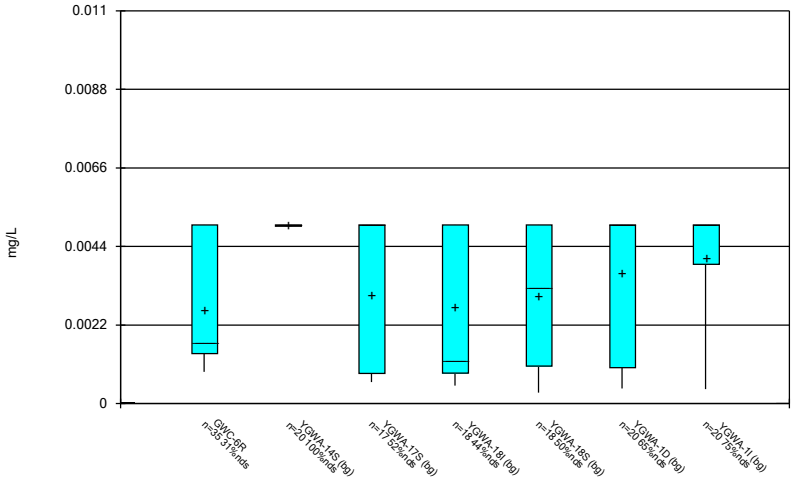
Box & Whiskers Plot



Constituent: Chromium Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

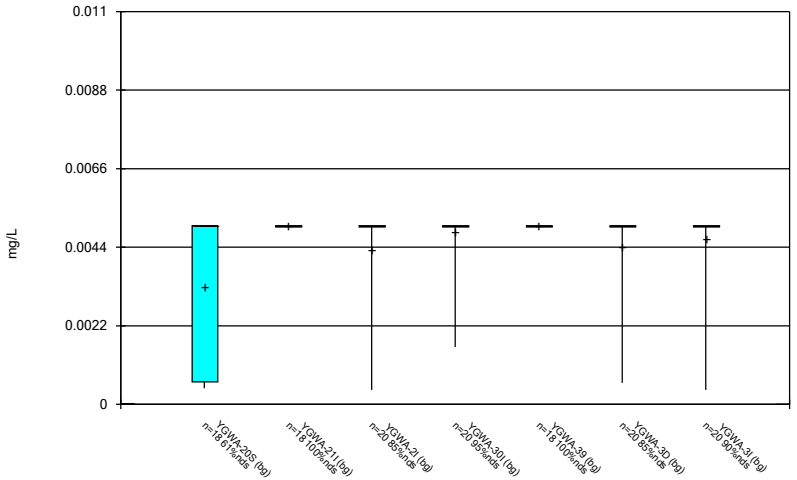
Box & Whiskers Plot



Constituent: Chromium Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

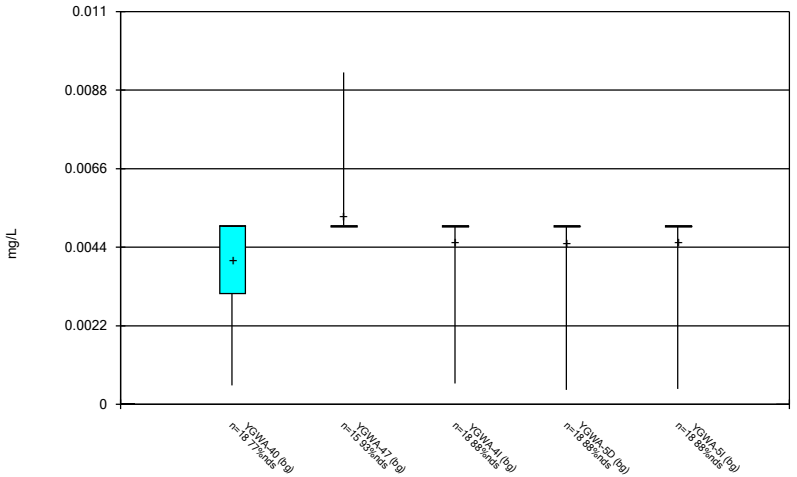
Box & Whiskers Plot



Constituent: Chromium Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

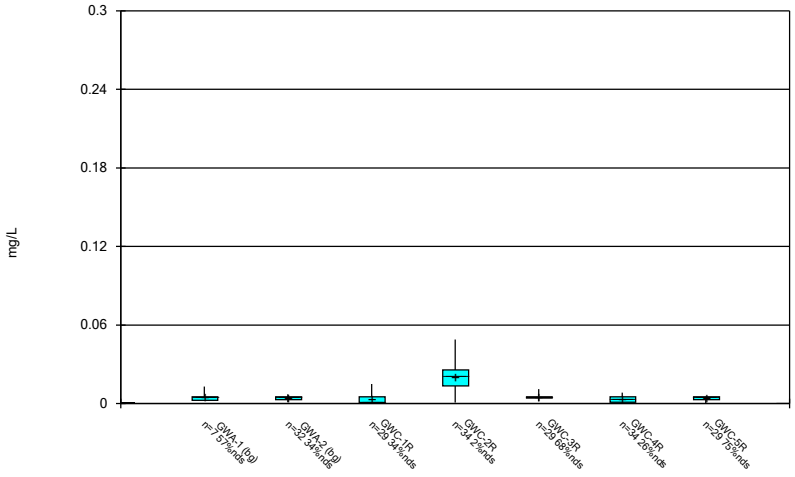
Box & Whiskers Plot



Constituent: Chromium Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

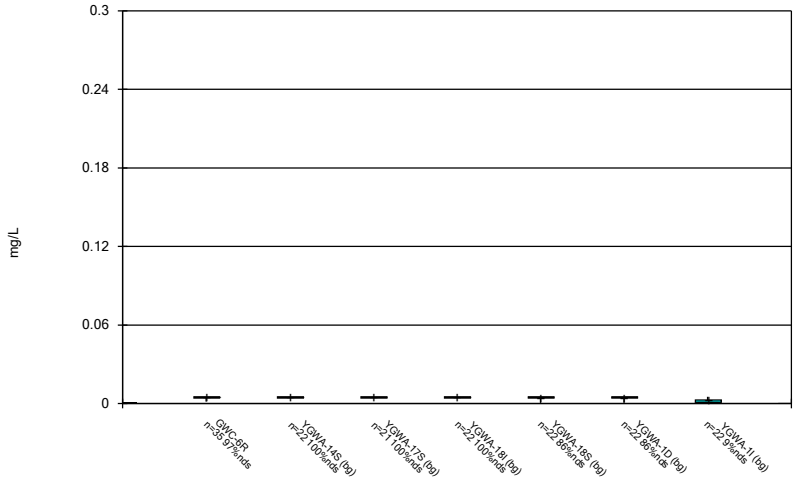
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

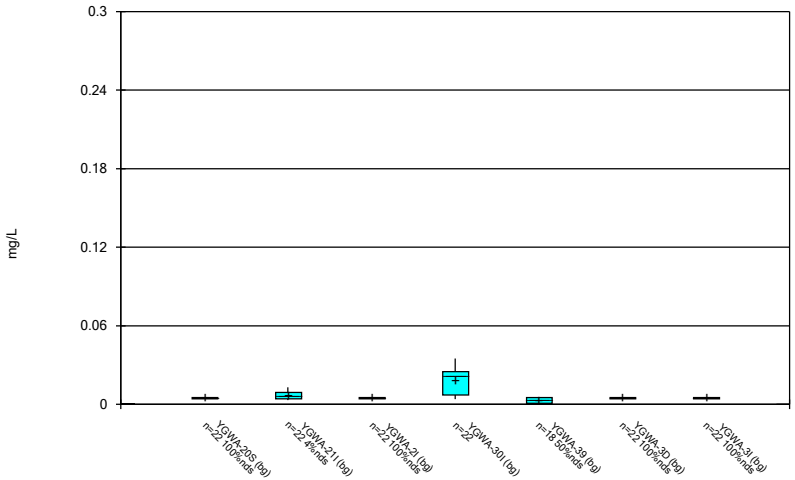
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

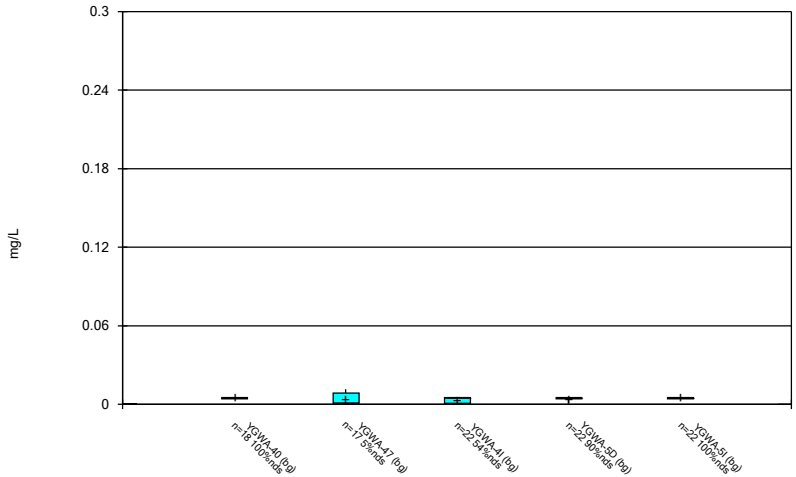
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

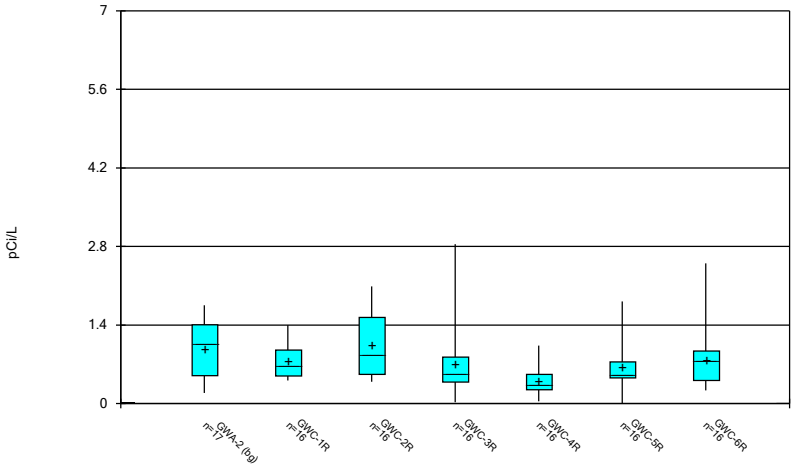
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

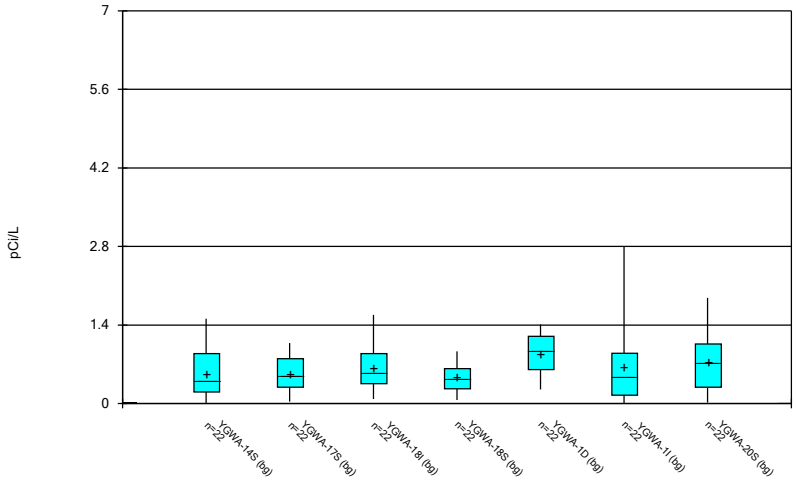
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

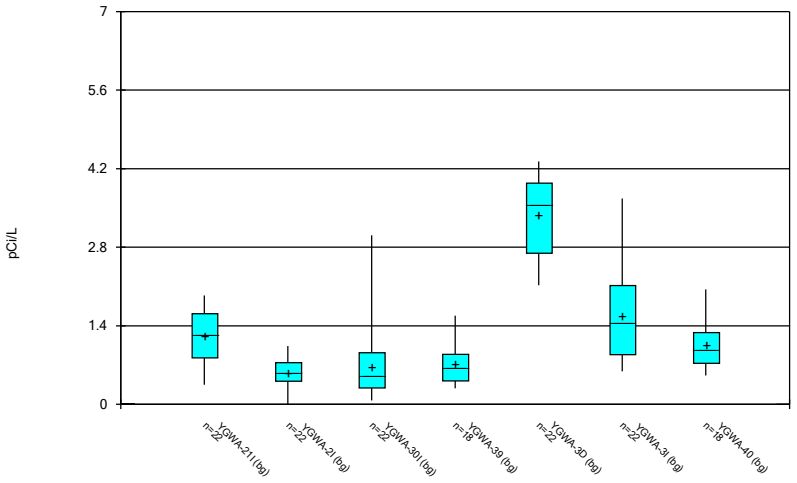
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

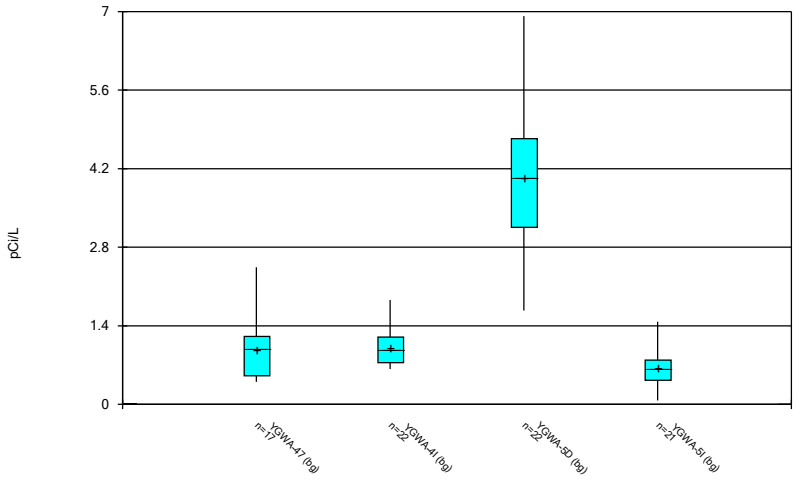
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

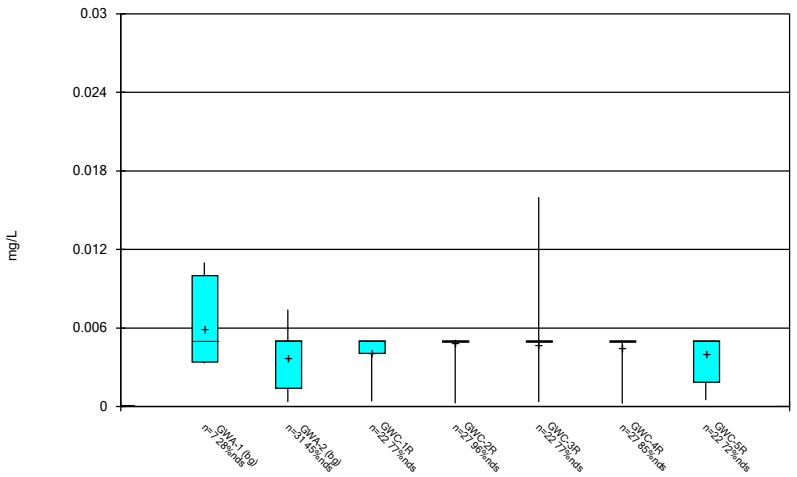
Sanitas™ v.9.6.35 . UG

Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

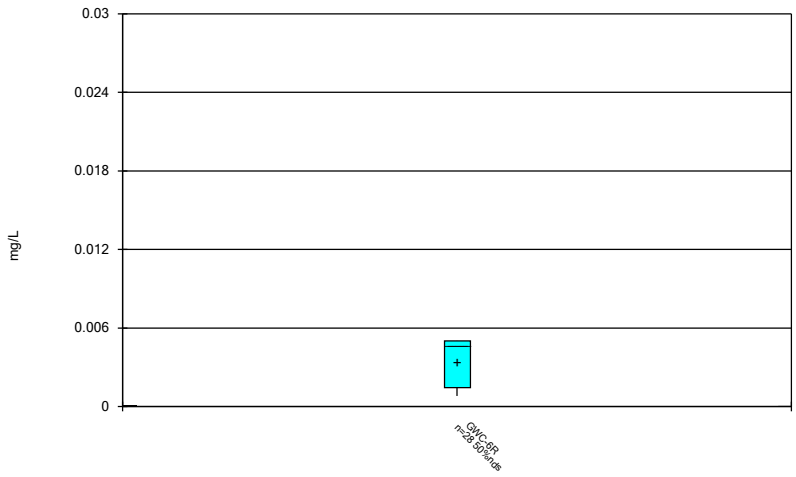
Box & Whiskers Plot



Constituent: Copper Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

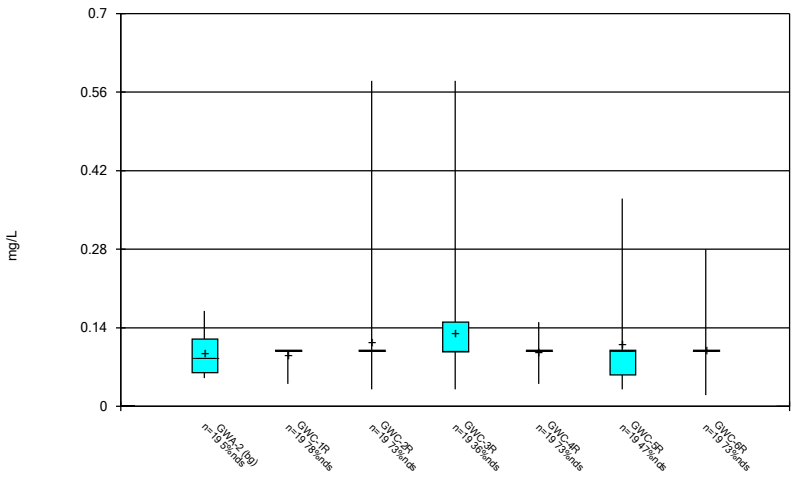
Box & Whiskers Plot



Constituent: Copper Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

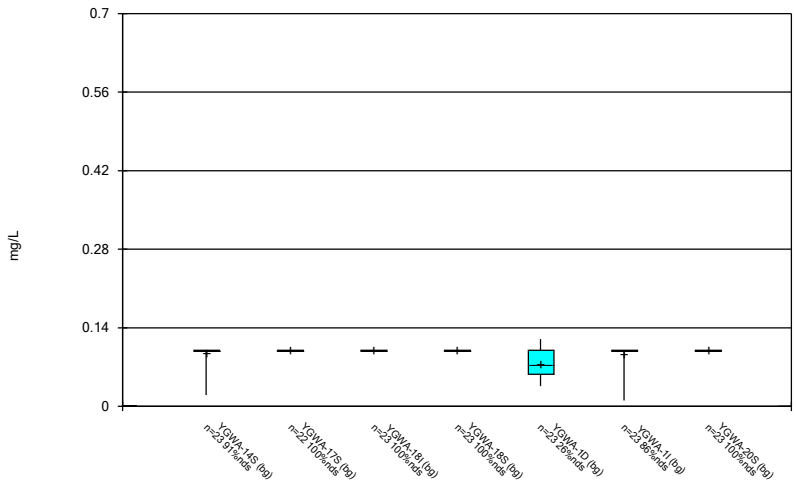
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

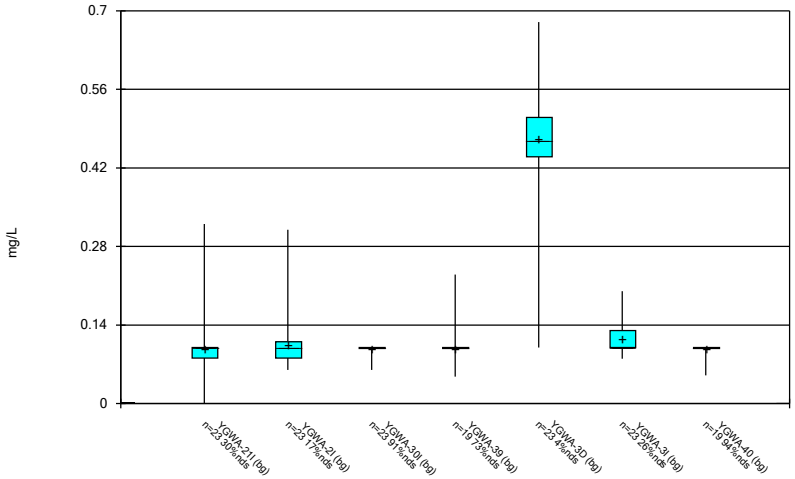
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

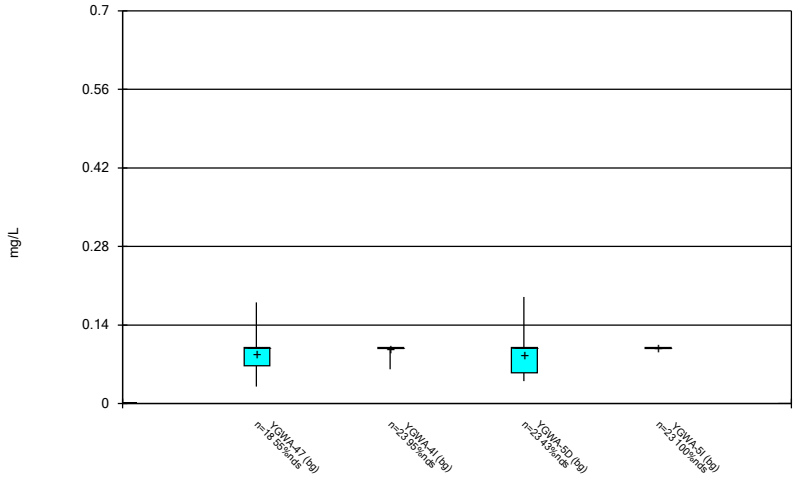
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Box & Whiskers Plot



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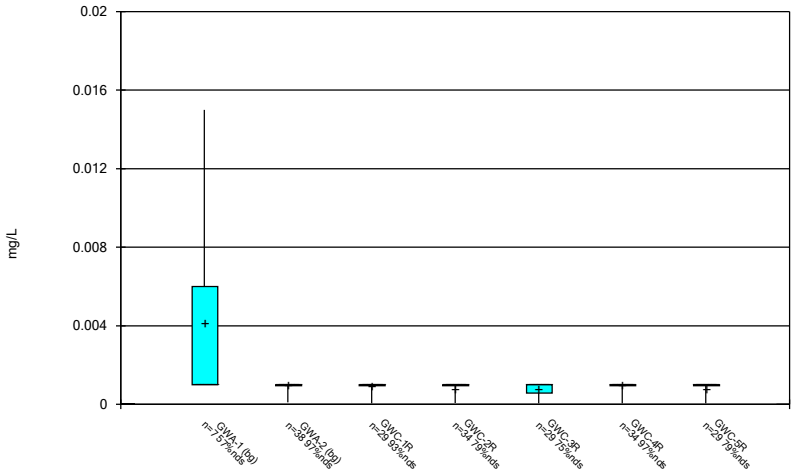
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

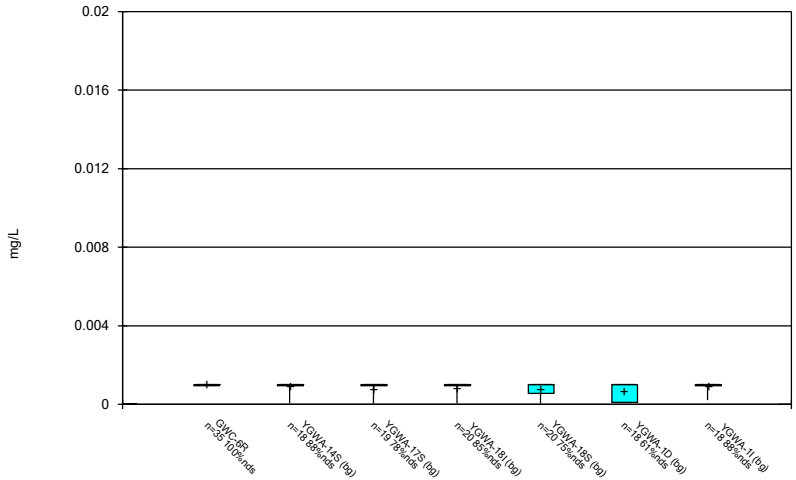
Box & Whiskers Plot



Constituent: Lead Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

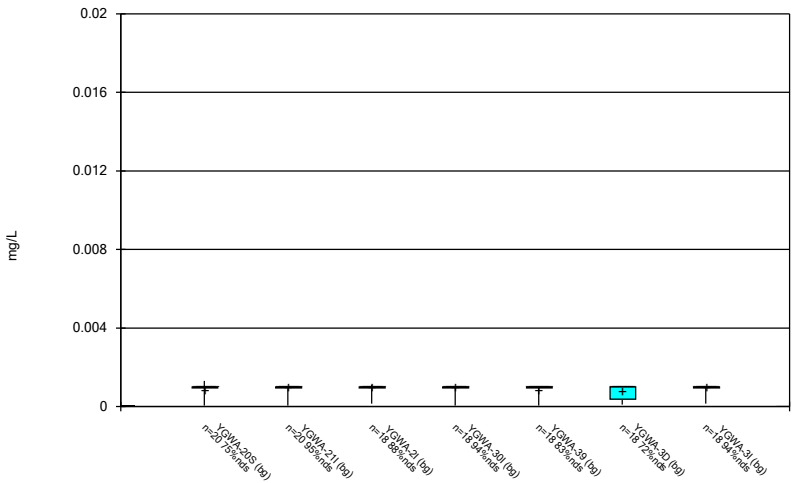
Box & Whiskers Plot



Constituent: Lead Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

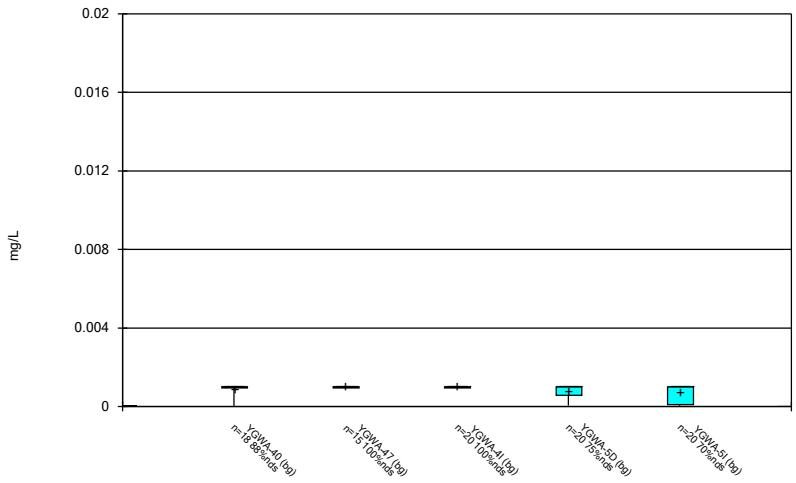
Box & Whiskers Plot



Constituent: Lead Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

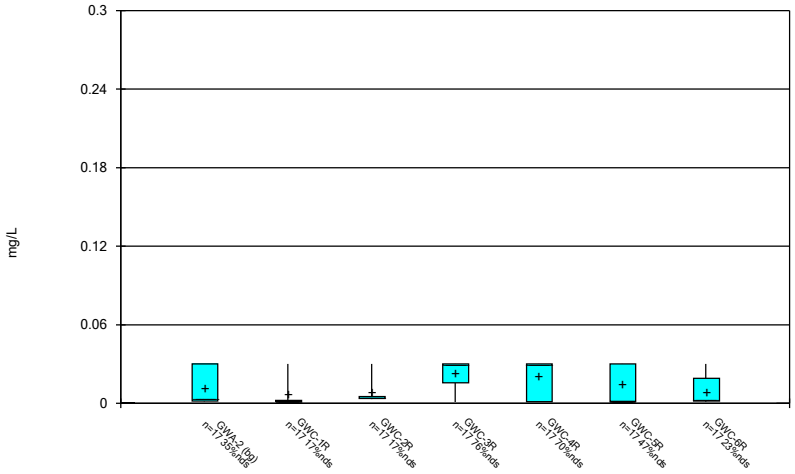
Box & Whiskers Plot



Constituent: Lead Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

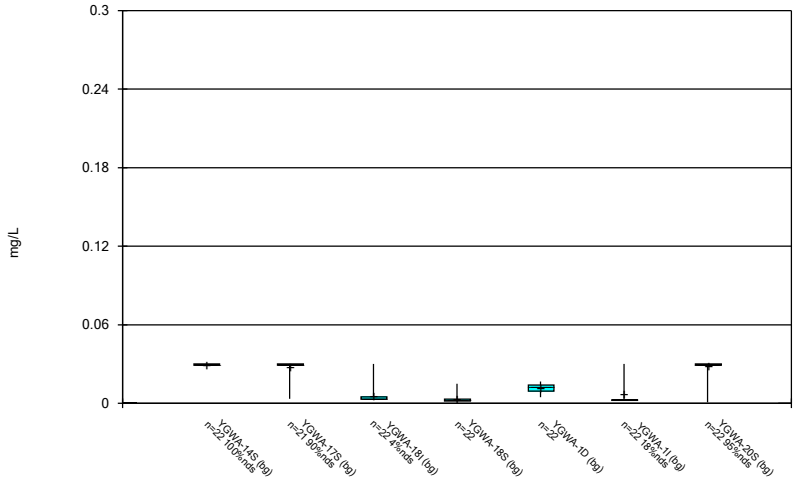
Box & Whiskers Plot



Constituent: Lithium Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

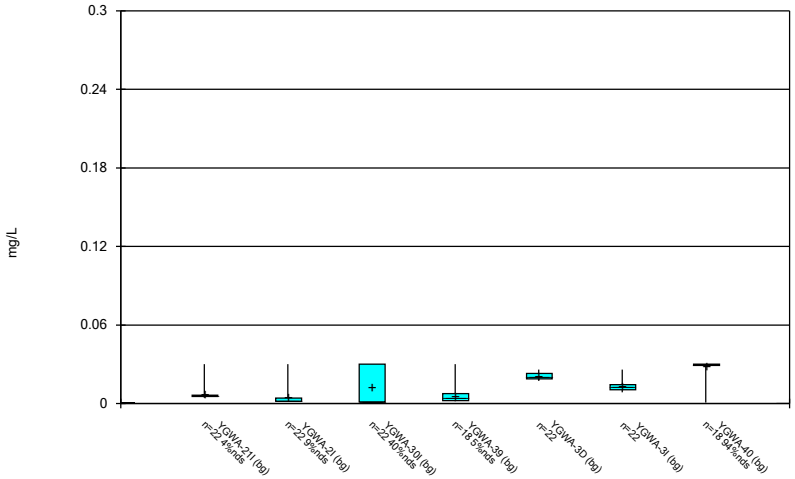
Box & Whiskers Plot



Constituent: Lithium Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

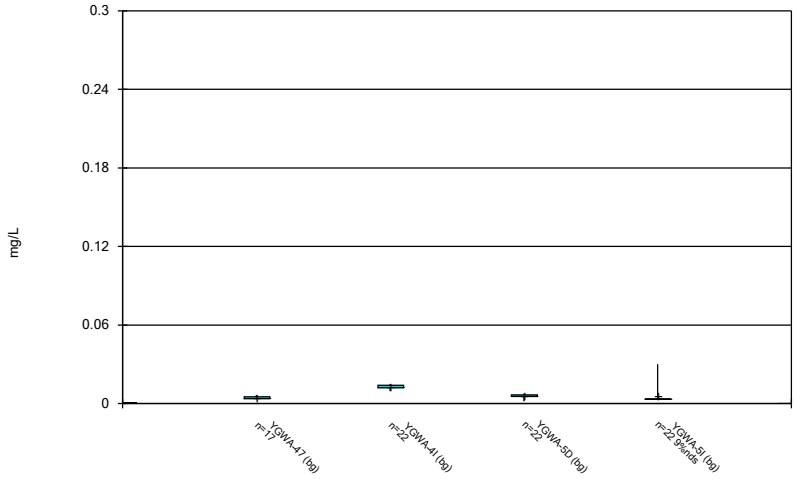
Box & Whiskers Plot



Constituent: Lithium Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

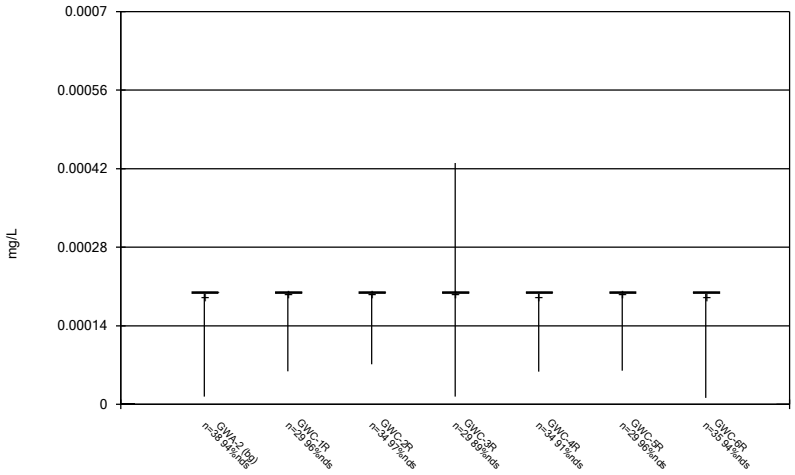
Box & Whiskers Plot



Constituent: Lithium Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

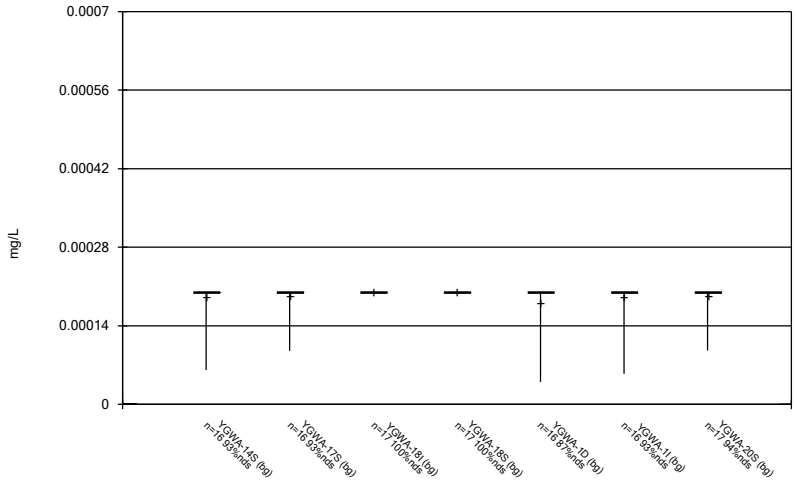
Box & Whiskers Plot



Constituent: Mercury Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

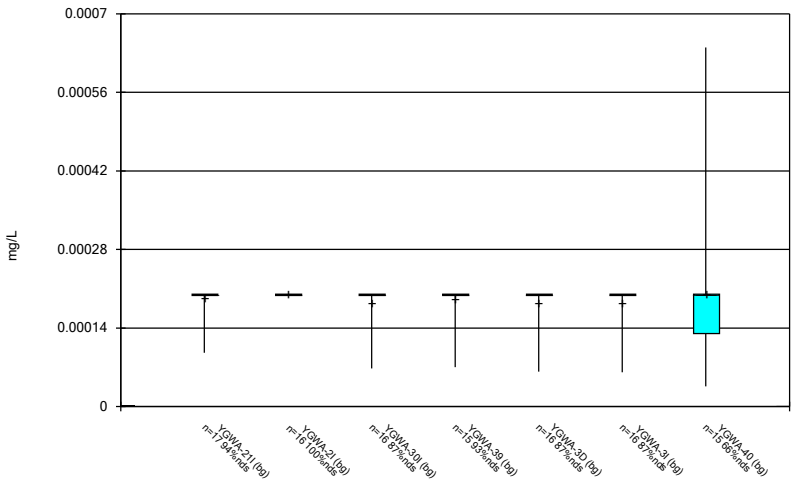
Box & Whiskers Plot



Constituent: Mercury Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

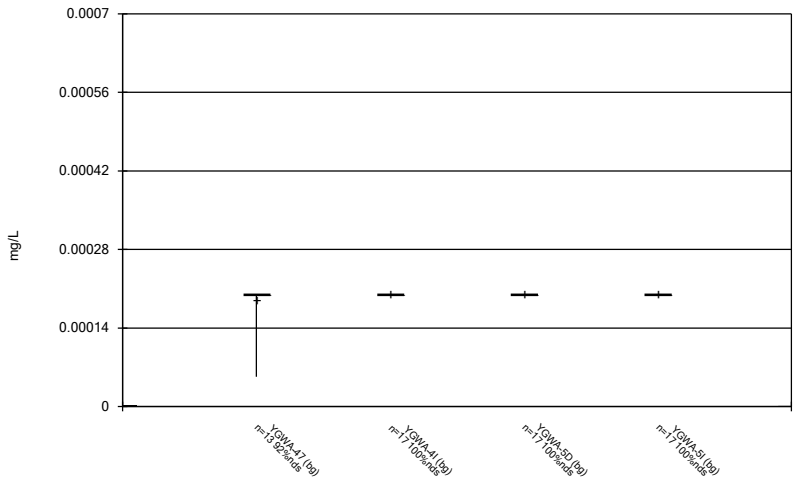
Box & Whiskers Plot



Constituent: Mercury Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

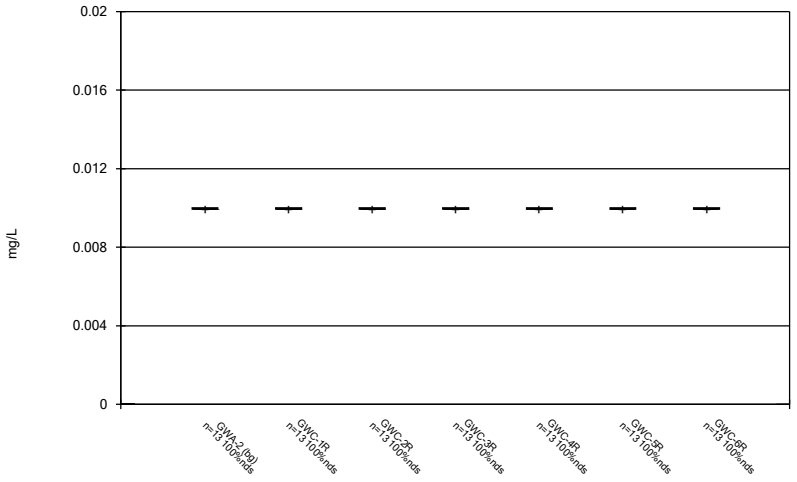
Box & Whiskers Plot



Constituent: Mercury Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

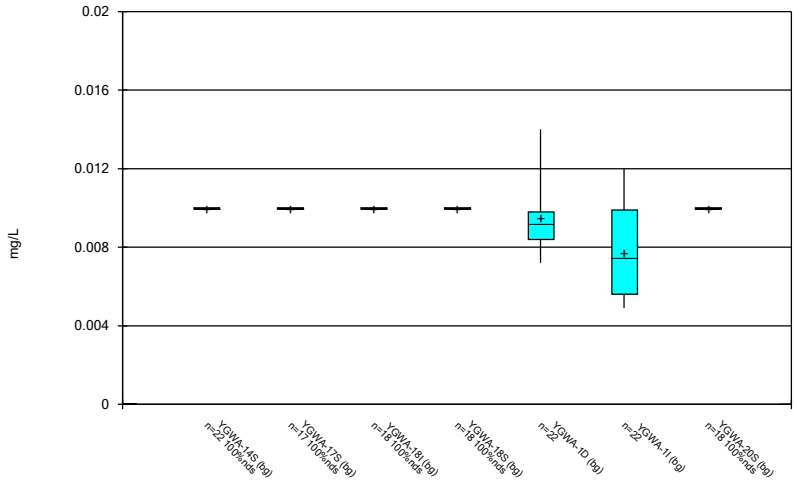
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

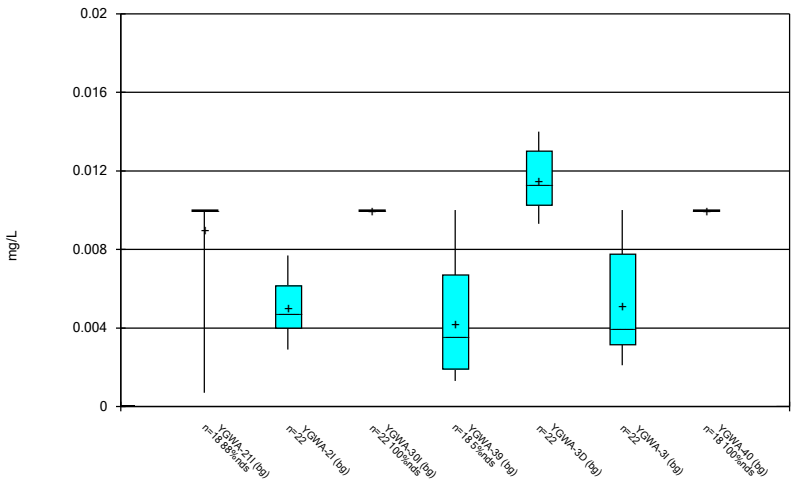
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

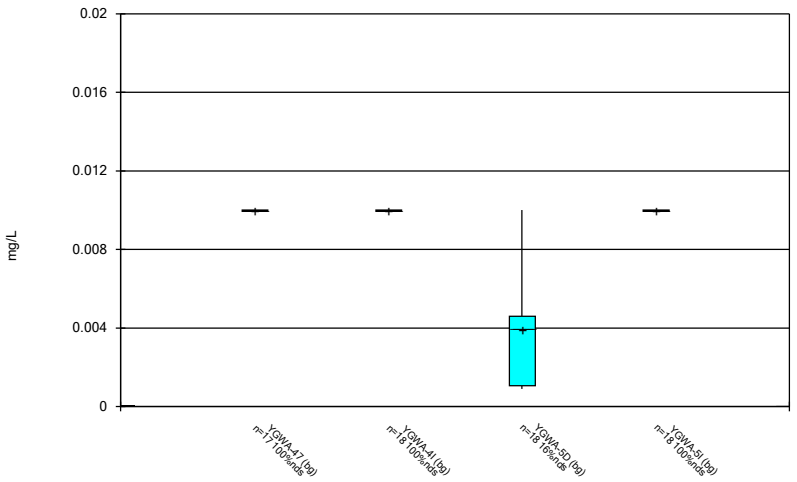
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

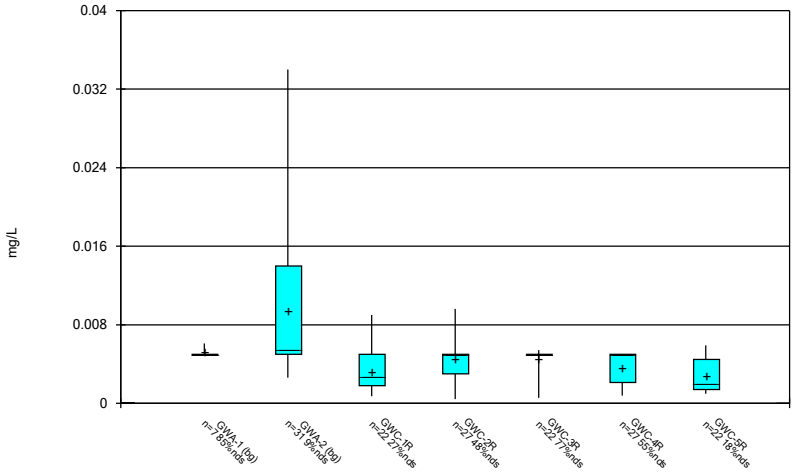
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

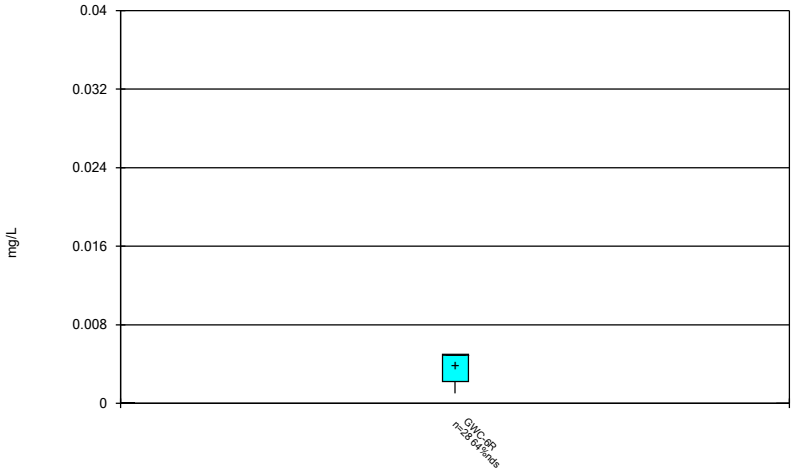
Box & Whiskers Plot



Constituent: Nickel Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

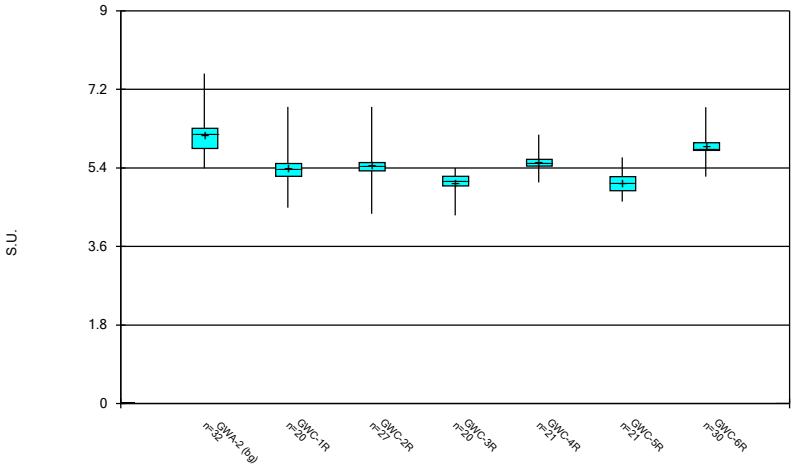
Box & Whiskers Plot



Constituent: Nickel Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

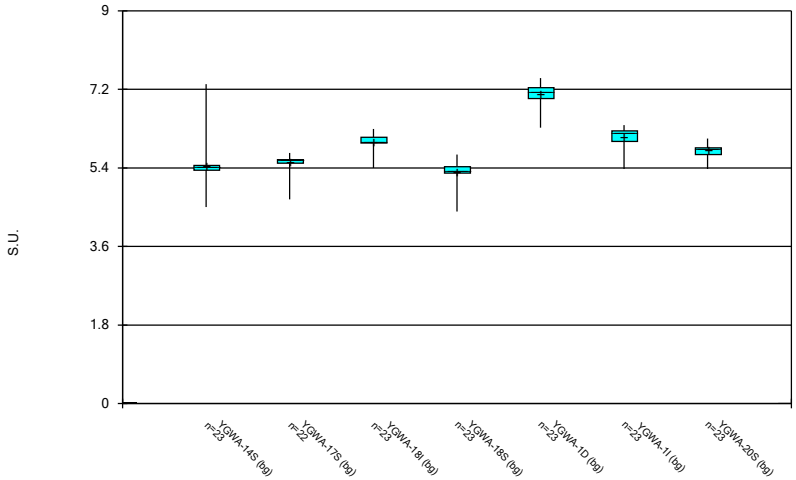
Box & Whiskers Plot



Constituent: pH Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

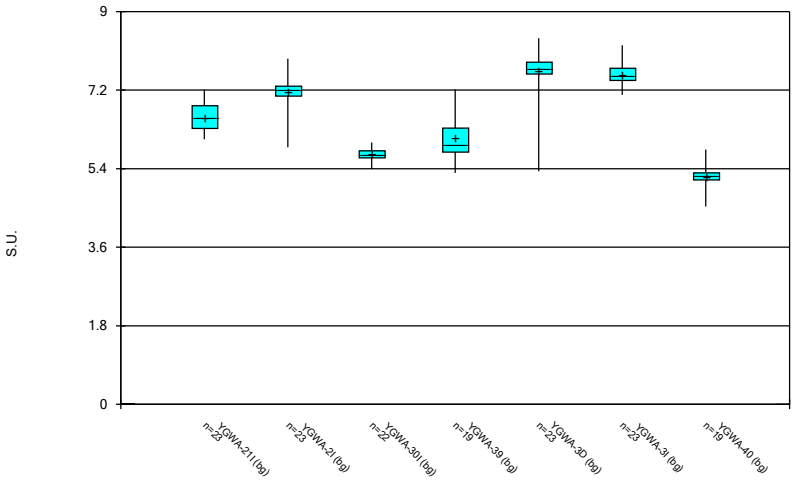
Box & Whiskers Plot



Constituent: pH Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

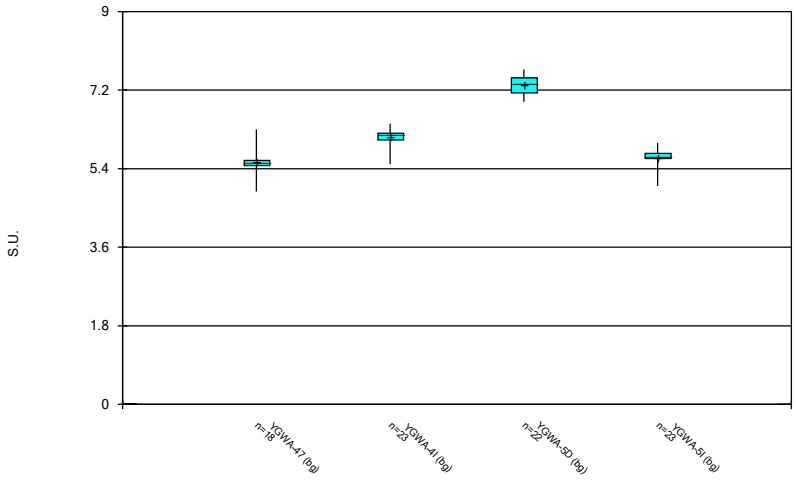
Box & Whiskers Plot



Constituent: pH Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

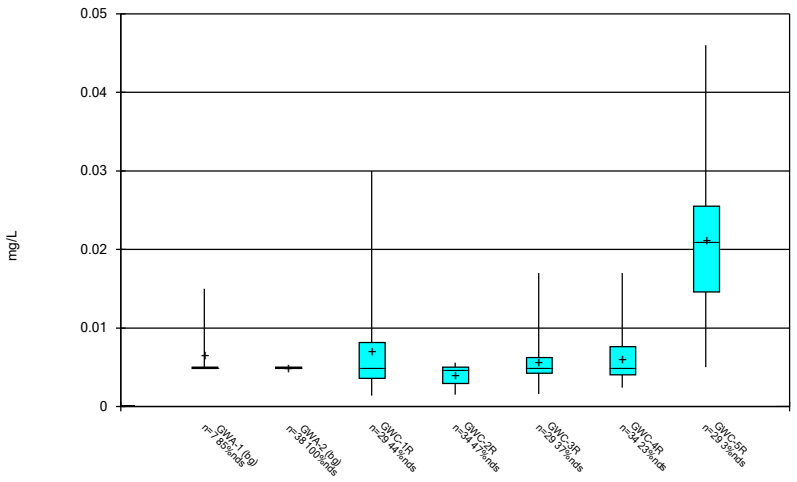
Sanitas™ v.9.6.35 . UG

Box & Whiskers Plot



Constituent: pH Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

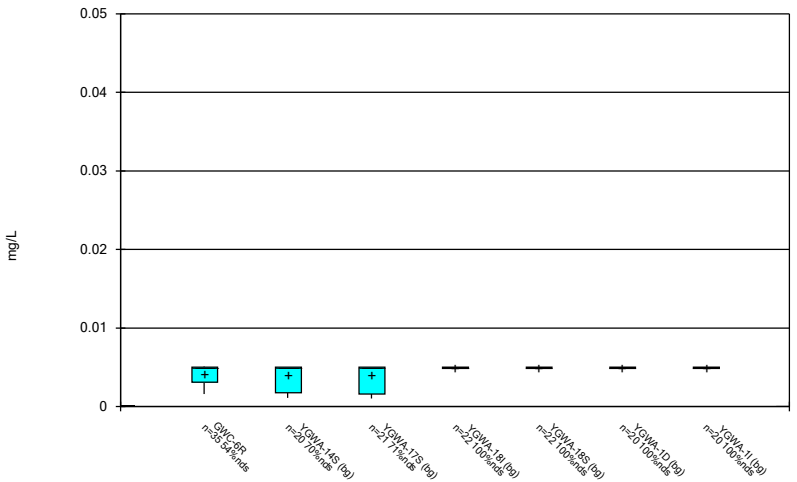
Box & Whiskers Plot



Constituent: Selenium Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

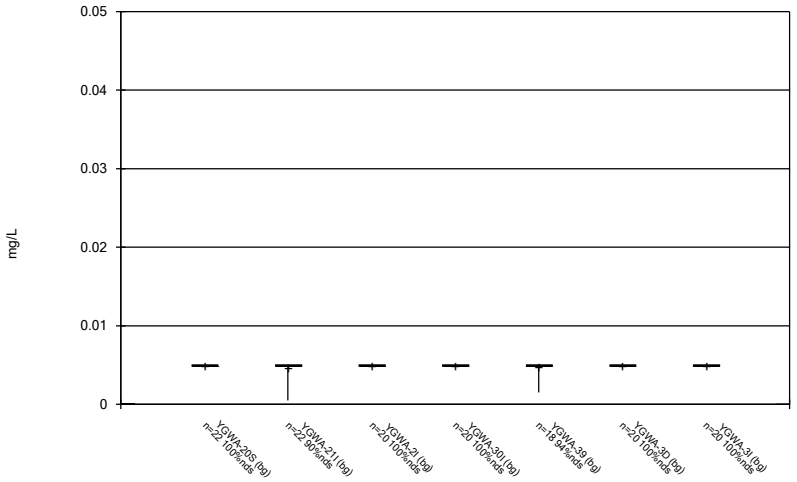
Box & Whiskers Plot



Constituent: Selenium Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

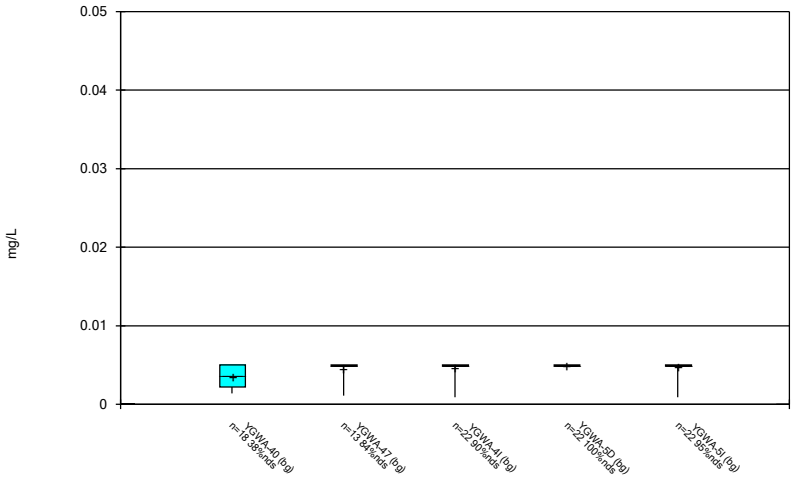
Box & Whiskers Plot



Constituent: Selenium Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

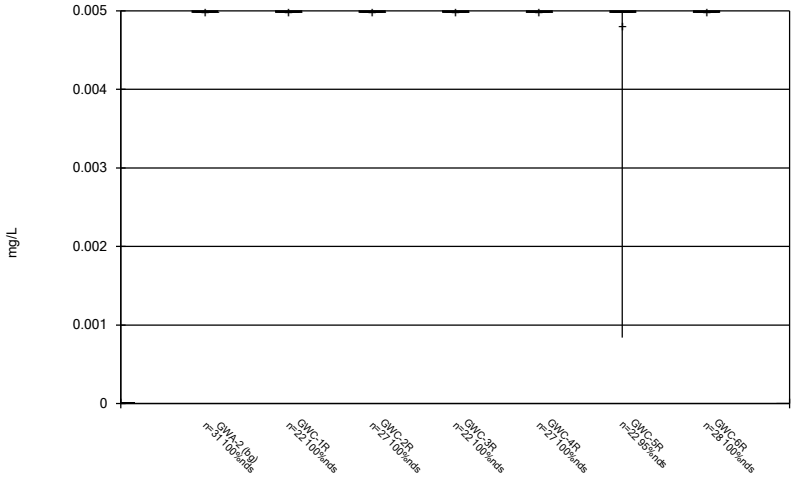
Box & Whiskers Plot



Constituent: Selenium Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

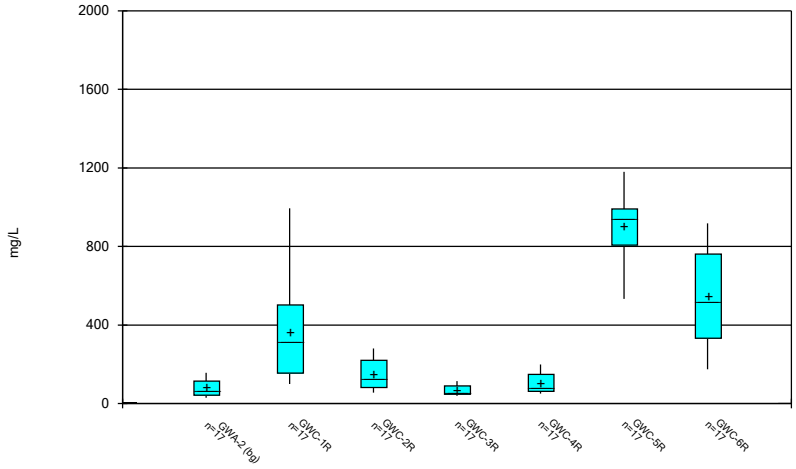
Box & Whiskers Plot



Constituent: Silver Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

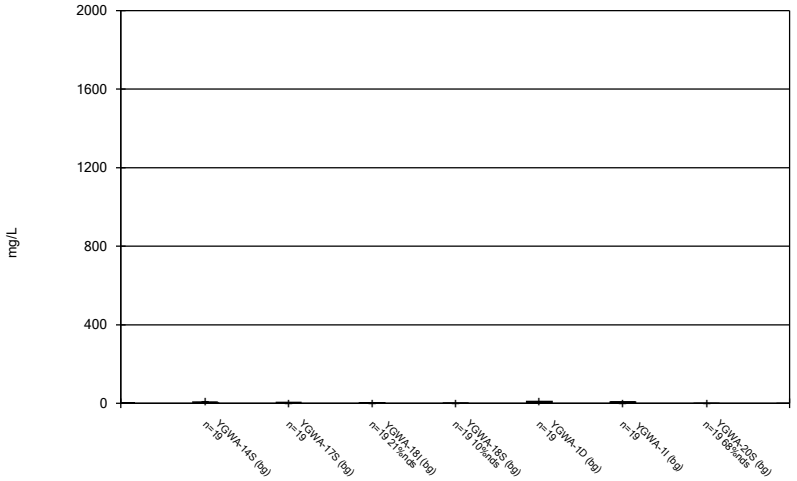
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

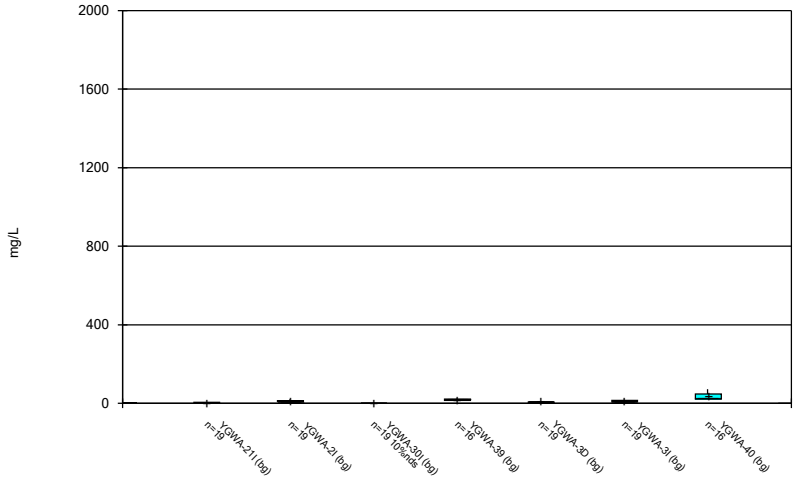
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

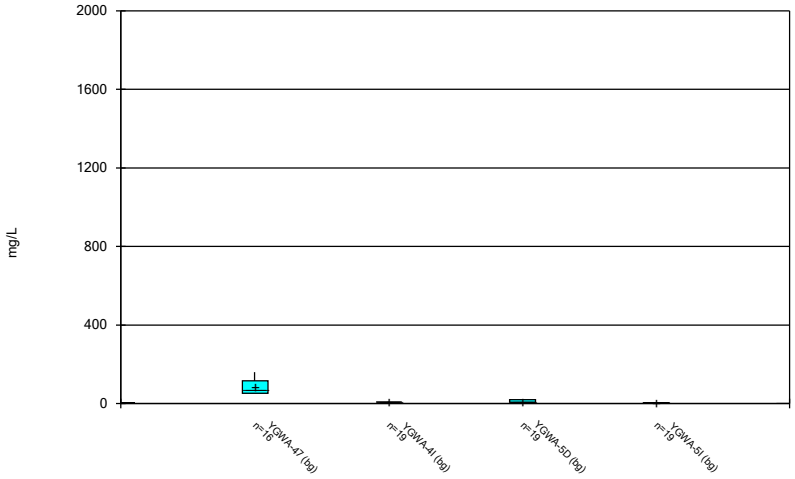
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

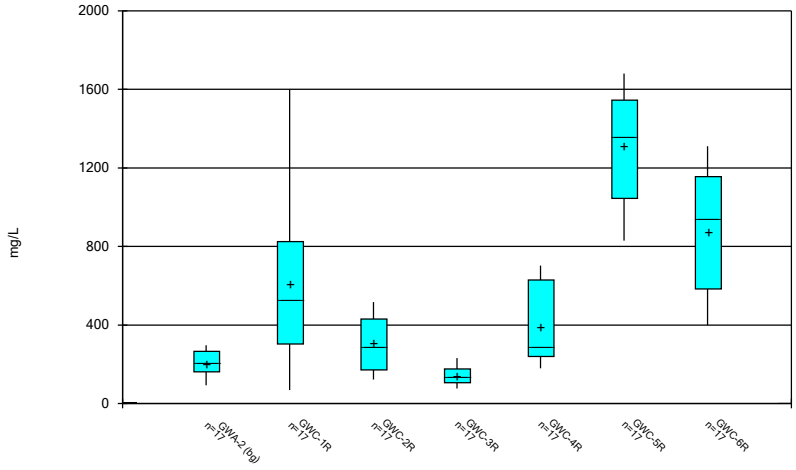
Box & Whiskers Plot



Constituent: Sulfate Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

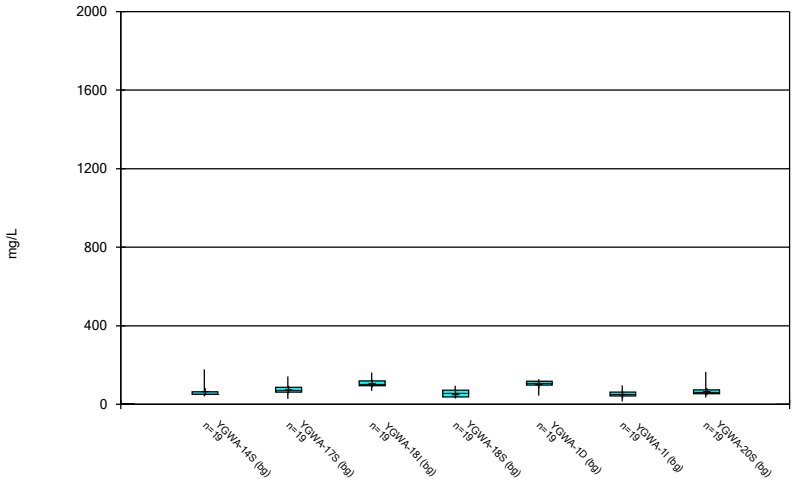
Box & Whiskers Plot



Constituent: TDS Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

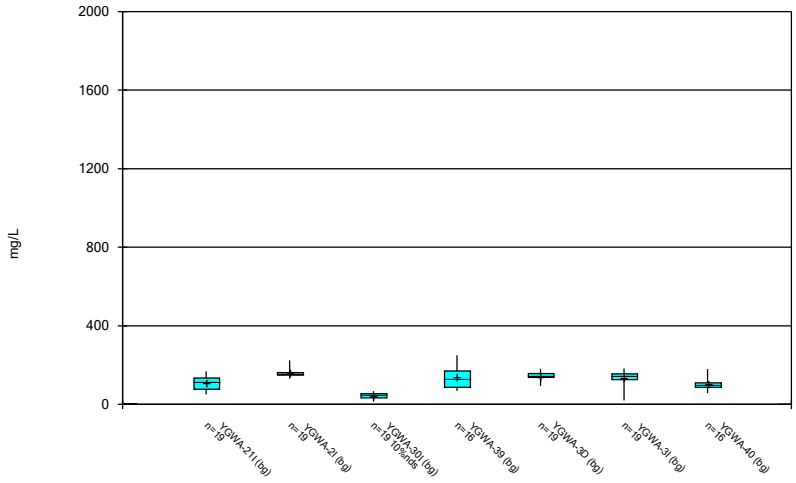
Box & Whiskers Plot



Constituent: TDS Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

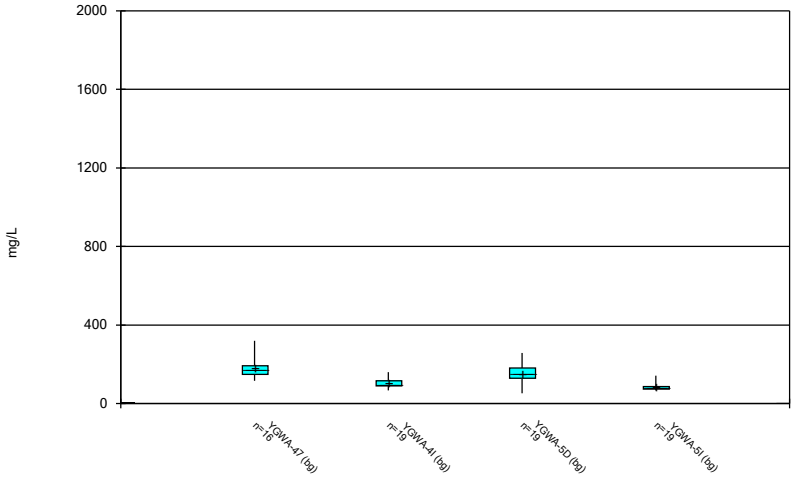
Box & Whiskers Plot



Constituent: TDS Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

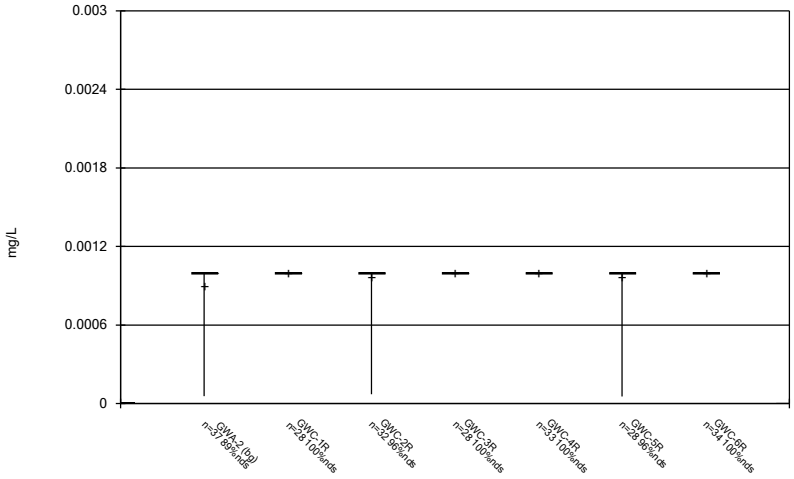
Box & Whiskers Plot



Constituent: TDS Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

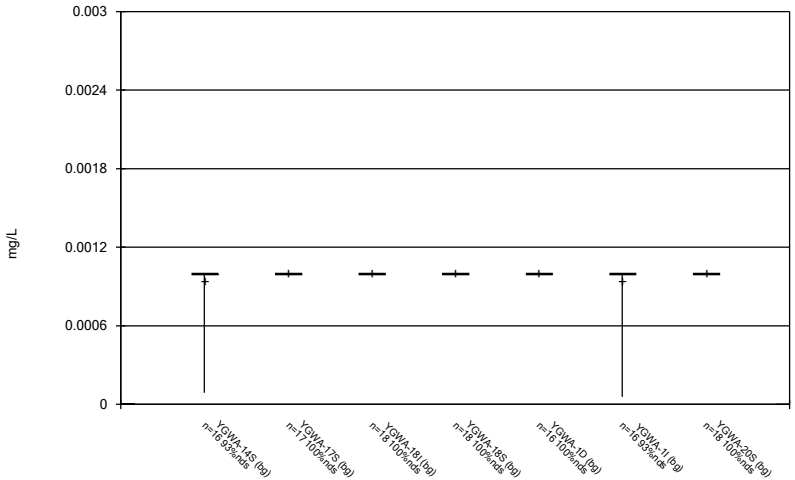
Box & Whiskers Plot



Constituent: Thallium Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

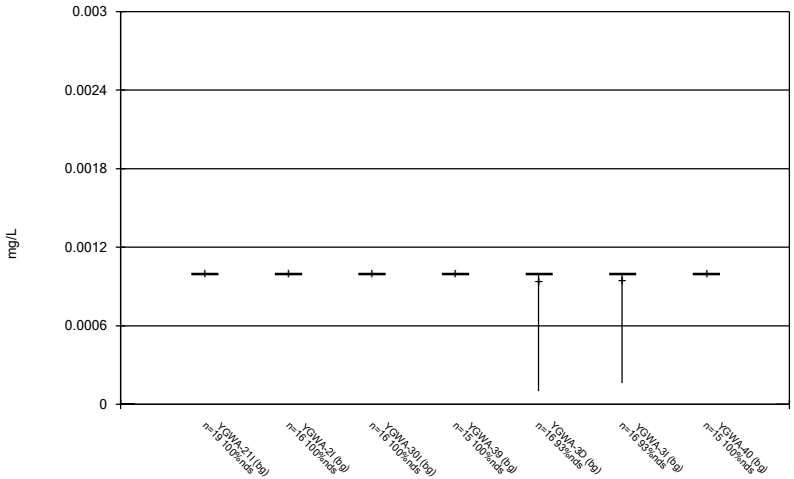
Box & Whiskers Plot



Constituent: Thallium Analysis Run 10/21/2022 3:09 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

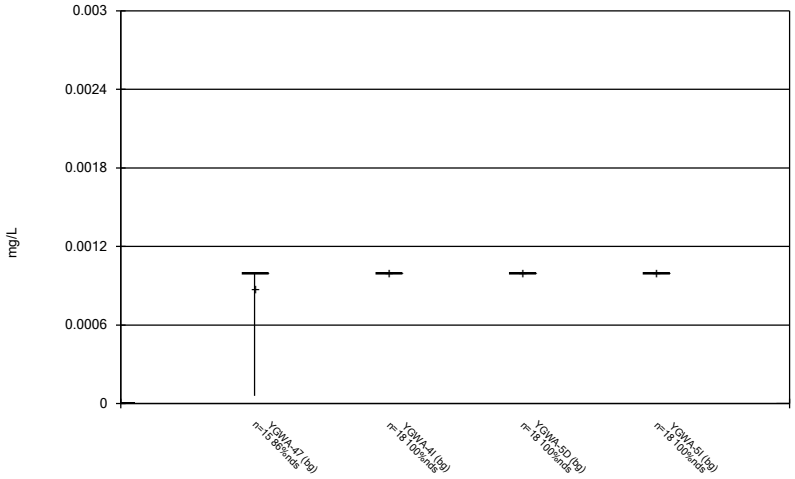
Box & Whiskers Plot



Constituent: Thallium Analysis Run 10/21/2022 3:10 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

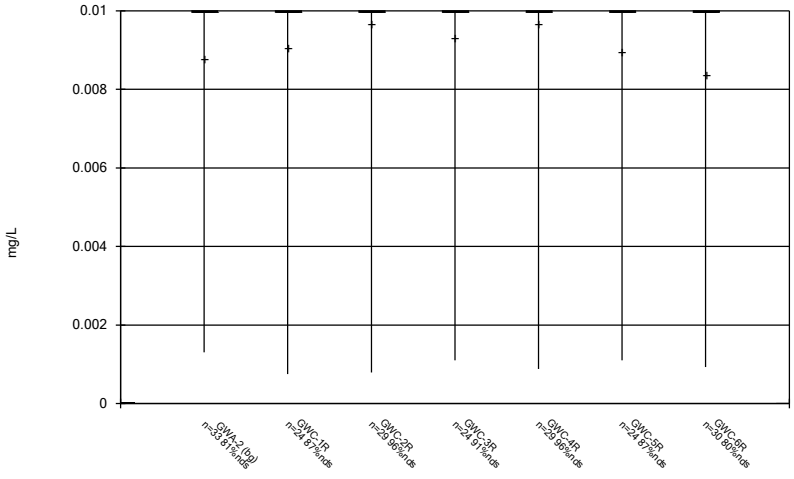
Box & Whiskers Plot



Constituent: Thallium Analysis Run 10/21/2022 3:10 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

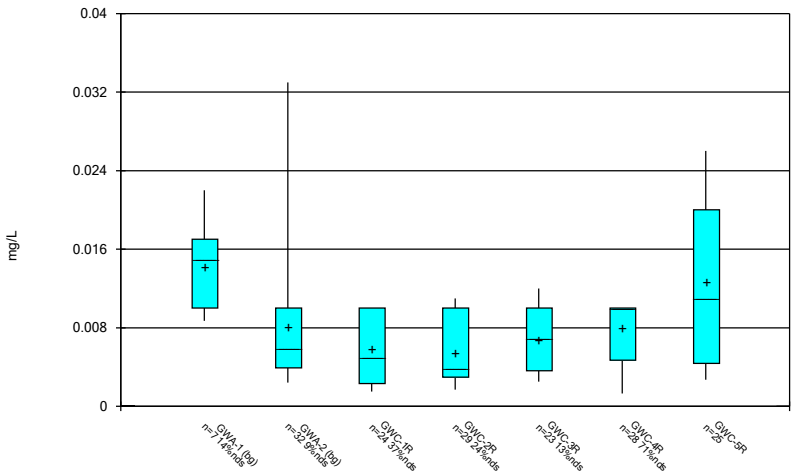
Box & Whiskers Plot



Constituent: Vanadium Analysis Run 10/21/2022 3:10 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

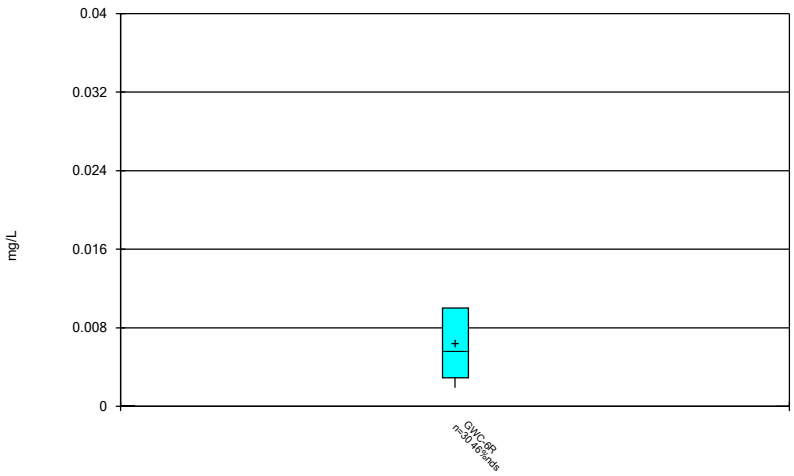
Box & Whiskers Plot



Constituent: Zinc Analysis Run 10/21/2022 3:10 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Box & Whiskers Plot



Constituent: Zinc Analysis Run 10/21/2022 3:10 PM View: Constituents View
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

FIGURE C.

Outlier Summary

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/24/2022, 2:49 PM

	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)			
2/8/2022	0.072 (o)			
8/30/2022	0.075 (o)			

FIGURE D.

Appendix I & II Intrawell Prediction Limit - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/25/2022, 1:34 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	**GWC-1R**	**0.019**	**n/a**	**8/30/2022**	**0.03**	**Yes**	**27**	**n/a**	**n/a**	**48.15**	**n/a**	**n/a**	**0.002502**	**NP Intra (normality) 1 of 2**

Appendix I & II Intrawell Prediction Limit - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/25/2022, 1:34 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-2	0.003	n/a	8/30/2022	0.003ND	No	36	n/a	n/a	91.67	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-2R	0.003	n/a	8/31/2022	0.003ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-4R	0.003	n/a	8/30/2022	0.00094J	No	32	n/a	n/a	90.63	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-5R	0.003	n/a	8/30/2022	0.003ND	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-2	0.005	n/a	8/30/2022	0.0024J	No	36	n/a	n/a	94.44	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-1R	0.005	n/a	8/30/2022	0.0035J	No	27	n/a	n/a	77.78	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-2R	0.005	n/a	8/31/2022	0.005ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-3R	0.005	n/a	8/30/2022	0.005ND	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-4R	0.005	n/a	8/30/2022	0.005ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-5R	0.005	n/a	8/30/2022	0.0035J	No	27	n/a	n/a	48.15	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Arsenic (mg/L)	GWC-6R	0.005	n/a	8/30/2022	0.005ND	No	33	n/a	n/a	72.73	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWA-2	0.07655	n/a	8/30/2022	0.031	No	36	0.04995	0.01231	0	None	No	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-1R	0.09209	n/a	8/30/2022	0.058	No	27	0.04909	0.01922	0	None	No	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-2R	0.13	n/a	8/31/2022	0.026	No	32	n/a	n/a	0	n/a	n/a	0.001803	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-3R	0.08517	n/a	8/30/2022	0.01	No	27	0.3004	0.06239	0	None	x^(1/3)	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-4R	0.06816	n/a	8/30/2022	0.022	No	28	0.3039	0.04699	0	None	x^(1/3)	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-5R	0.058	n/a	8/30/2022	0.01	No	23	n/a	n/a	0	n/a	n/a	0.003415	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-6R	0.09329	n/a	8/30/2022	0.028	No	33	0.04743	0.02102	0	None	No	0.0005852	Param Intra 1 of 2
Beryllium (mg/L)	GWC-1R	0.003	n/a	8/30/2022	0.00037J	No	27	n/a	n/a	48.15	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWC-2R	0.003	n/a	8/31/2022	0.00023J	No	32	n/a	n/a	71.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-3R	0.003	n/a	8/30/2022	0.00056	No	27	n/a	n/a	25.93	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWC-4R	0.003	n/a	8/30/2022	0.000072J	No	32	n/a	n/a	90.63	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-5R	0.0037	n/a	8/30/2022	0.0032	No	27	n/a	n/a	25.93	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Cadmium (mg/L)	GWC-1R	0.0025	n/a	8/30/2022	0.00026J	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-2R	0.0005	n/a	8/31/2022	0.00012J	No	32	n/a	n/a	81.25	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-3R	0.0025	n/a	8/30/2022	0.00016J	No	27	n/a	n/a	62.96	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-4R	0.0005	n/a	8/30/2022	0.00011J	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-5R	0.00114	n/a	8/30/2022	0.00098	No	27	4.6e-10	4.5e-10	29.63	Kaplan-Meier	x^3	0.0005852	Param Intra 1 of 2
Chromium (mg/L)	GWA-2	0.0084	n/a	8/30/2022	0.005ND	No	36	n/a	n/a	77.78	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-1R	0.01	n/a	8/30/2022	0.0015J	No	27	n/a	n/a	44.44	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-2R	0.005	n/a	8/31/2022	0.005ND	No	32	n/a	n/a	84.38	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-3R	0.005	n/a	8/30/2022	0.005ND	No	27	n/a	n/a	29.63	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-4R	0.0062	n/a	8/30/2022	0.005ND	No	32	n/a	n/a	81.25	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-5R	0.01	n/a	8/30/2022	0.0019J	No	27	n/a	n/a	18.52	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-6R	0.01	n/a	8/30/2022	0.0016J	No	33	n/a	n/a	33.33	n/a	n/a	0.001701	NP Intra (normality) 1 of 2
Cobalt (mg/L)	GWA-2	0.006801	n/a	n/a	1 future	n/a	32	0.00327	0.001613	34.38	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-1R	0.015	n/a	8/30/2022	0.00087J	No	27	n/a	n/a	37.04	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Cobalt (mg/L)	GWC-2R	0.04592	n/a	8/31/2022	0.0036J	No	32	0.02134	0.01123	3.125	None	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-3R	0.011	n/a	8/30/2022	0.0021J	No	27	n/a	n/a	74.07	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-4R	0.006272	n/a	8/30/2022	0.002J	No	32	0.002253	0.001836	28.13	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-5R	0.005	n/a	8/30/2022	0.00077J	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-6R	0.005	n/a	8/30/2022	0.005ND	No	33	n/a	n/a	96.97	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-2	0.0074	n/a	8/30/2022	0.005ND	No	29	n/a	n/a	44.83	n/a	n/a	0.002172	NP Intra (normality) 1 of 2
Copper (mg/L)	GWC-1R	0.005	n/a	8/30/2022	0.005ND	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-2R	0.005	n/a	8/31/2022	0.005ND	No	25	n/a	n/a	96	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-3R	0.016	n/a	8/30/2022	0.005ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-4R	0.005	n/a	8/30/2022	0.005ND	No	25	n/a	n/a	84	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-5R	0.005	n/a	8/30/2022	0.005ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-6R	0.005	n/a	8/30/2022	0.005ND	No	26	n/a	n/a	50	n/a	n/a	0.002667	NP Intra (normality) 1 of 2
Lead (mg/L)	GWA-2	0.001	n/a	8/30/2022	0.001ND	No	36	n/a	n/a	97.22	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2

Appendix I & II Intrawell Prediction Limit - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/25/2022, 1:34 PM

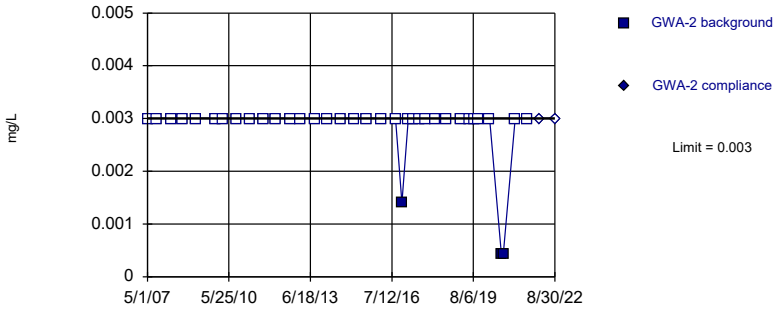
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	GWC-1R	0.001	n/a	8/30/2022	0.001ND	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-2R	0.001	n/a	8/31/2022	0.001ND	No	32	n/a	n/a	78.13	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-3R	0.001	n/a	8/30/2022	0.001ND	No	27	n/a	n/a	74.07	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-4R	0.001	n/a	8/30/2022	0.001ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-5R	0.001	n/a	8/30/2022	0.001ND	No	27	n/a	n/a	77.78	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWA-2	0.0002	n/a	8/30/2022	0.0002ND	No	36	n/a	n/a	94.44	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-1R	0.0002	n/a	8/30/2022	0.0002ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-2R	0.0002	n/a	8/31/2022	0.0002ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-3R	0.00043	n/a	8/30/2022	0.0002ND	No	27	n/a	n/a	88.89	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-4R	0.0002	n/a	8/30/2022	0.00014J	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-5R	0.0002	n/a	8/30/2022	0.0002ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-6R	0.0002	n/a	8/30/2022	0.0002ND	No	33	n/a	n/a	93.94	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-2	0.034	n/a	8/30/2022	0.015	No	29	n/a	n/a	10.34	n/a	n/a	0.002172	NP Intra (normality) 1 of 2
Nickel (mg/L)	GWC-1R	0.008772	n/a	8/30/2022	0.0027J	No	20	-6.236	0.6381	30	Kaplan-Meier	ln(x)	0.0005852	Param Intra 1 of 2
Nickel (mg/L)	GWC-2R	0.0096	n/a	8/31/2022	0.005ND	No	25	n/a	n/a	44	n/a	n/a	0.002832	NP Intra (normality) 1 of 2
Nickel (mg/L)	GWC-3R	0.0054	n/a	8/30/2022	0.005ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-4R	0.01	n/a	8/30/2022	0.0021J	No	25	n/a	n/a	60	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-5R	0.004969	n/a	8/30/2022	0.00097J	No	20	0.04397	0.01129	20	Kaplan-Meier	sqrt(x)	0.0005852	Param Intra 1 of 2
Nickel (mg/L)	GWC-6R	0.005	n/a	8/30/2022	0.005ND	No	26	n/a	n/a	65.38	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Selenium (mg/L)	**GWC-1R**	**0.019**	**n/a**	**8/30/2022**	**0.03**	**Yes**	**27**	**n/a**	**n/a**	**48.15**	**n/a**	**n/a**	**0.002502**	**NP Intra (normality) 1 of 2**
Selenium (mg/L)	GWC-2R	0.01	n/a	8/31/2022	0.0042J	No	32	n/a	n/a	50	n/a	n/a	0.001803	NP Intra (normality) 1 of 2
Selenium (mg/L)	GWC-3R	0.017	n/a	8/30/2022	0.0068	No	27	n/a	n/a	40.74	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Selenium (mg/L)	GWC-4R	0.01445	n/a	8/30/2022	0.0038J	No	32	0.07177	0.02213	25	Kaplan-Meier	sqrt(x)	0.0005852	Param Intra 1 of 2
Selenium (mg/L)	GWC-5R	0.04089	n/a	8/30/2022	0.019	No	27	0.02169	0.008579	3.704	None	No	0.0005852	Param Intra 1 of 2
Selenium (mg/L)	GWC-6R	0.0051	n/a	8/30/2022	0.005ND	No	33	n/a	n/a	51.52	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-2	0.001	n/a	8/30/2022	0.001ND	No	35	n/a	n/a	88.57	n/a	n/a	0.001497	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-2R	0.001	n/a	8/31/2022	0.001ND	No	30	n/a	n/a	96.67	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-5R	0.001	n/a	8/30/2022	0.001ND	No	26	n/a	n/a	96.15	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-2	0.01	n/a	8/30/2022	0.0026J	No	31	n/a	n/a	83.87	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-1R	0.01	n/a	8/30/2022	0.01ND	No	22	n/a	n/a	86.36	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-2R	0.01	n/a	8/31/2022	0.01ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-3R	0.01	n/a	8/30/2022	0.01ND	No	22	n/a	n/a	90.91	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-4R	0.01	n/a	8/30/2022	0.01ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-5R	0.01	n/a	8/30/2022	0.01ND	No	22	n/a	n/a	86.36	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-6R	0.01	n/a	8/30/2022	0.01ND	No	28	n/a	n/a	78.57	n/a	n/a	0.002337	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-2	0.02538	n/a	8/30/2022	0.011	No	30	-5.103	0.6488	10	None	ln(x)	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-1R	0.01	n/a	8/30/2022	0.01ND	No	22	n/a	n/a	31.82	n/a	n/a	0.003707	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-2R	0.01022	n/a	8/31/2022	0.01ND	No	27	-5.718	0.507	18.52	Kaplan-Meier	ln(x)	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-3R	0.01375	n/a	8/30/2022	0.01ND	No	21	0.006395	0.003152	9.524	None	No	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-4R	0.01	n/a	8/30/2022	0.01ND	No	26	n/a	n/a	69.23	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-5R	0.02878	n/a	8/30/2022	0.022	No	23	0.01173	0.007426	0	None	No	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-6R	0.01	n/a	8/30/2022	0.01ND	No	28	n/a	n/a	42.86	n/a	n/a	0.002337	NP Intra (normality) 1 of 2

Sanitas™ v.9.6.35 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 36 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.002856. Individual comparison alpha = 0.001429 (1 of 2).

Constituent: Antimony Analysis Run 10/25/2022 1:29 PM View: Appendix I & II

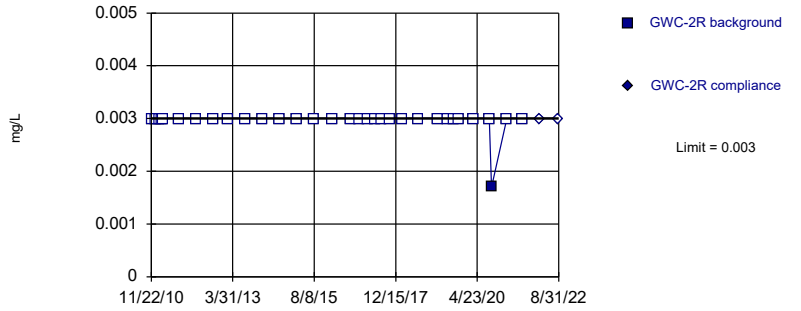
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Antimony Analysis Run 10/25/2022 1:29 PM View: Appendix I & II

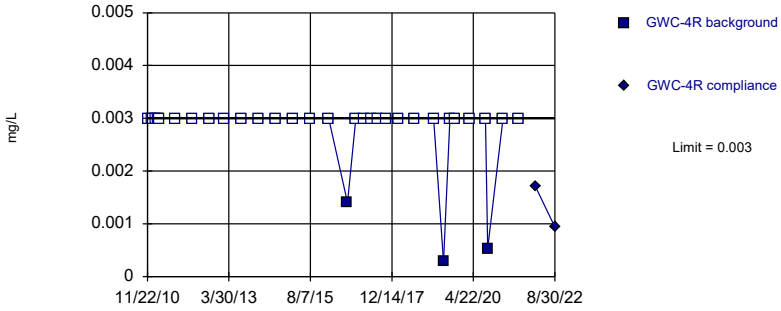
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 32 background values. 90.63% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Antimony Analysis Run 10/25/2022 1:29 PM View: Appendix I & II

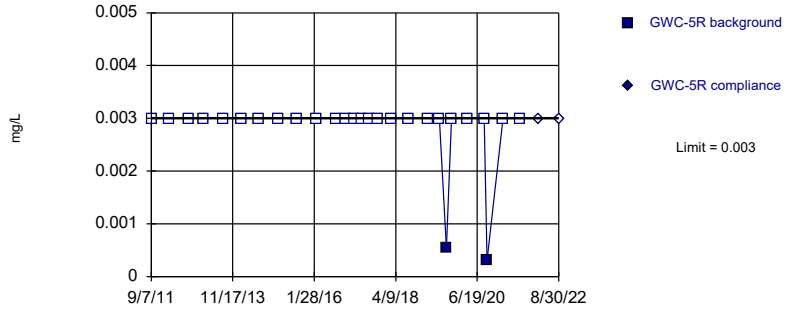
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 27 background values. 92.59% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Antimony Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

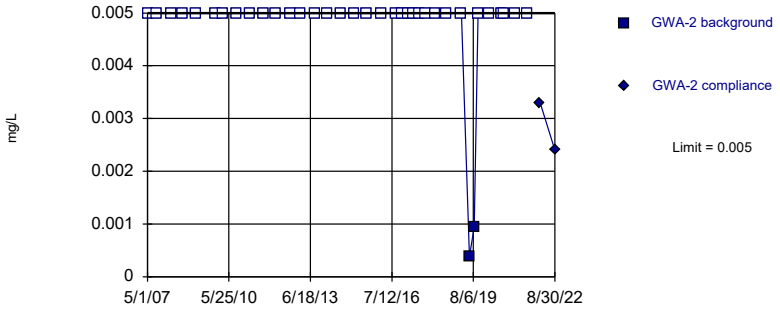
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 36 background values. 94.44% NDs. Well-constituent pair annual alpha = 0.002856. Individual comparison alpha = 0.001429 (1 of 2).

Constituent: Arsenic Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

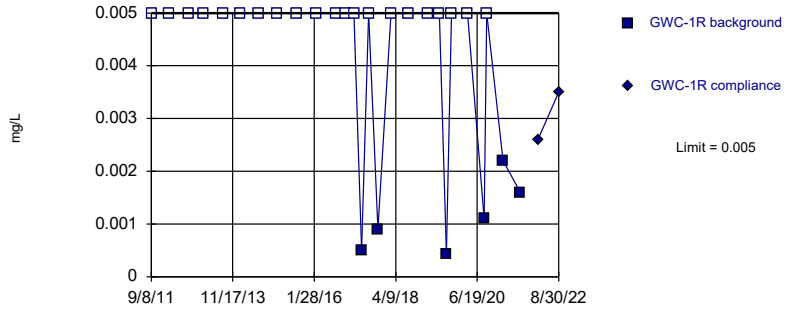
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 27 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Arsenic Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

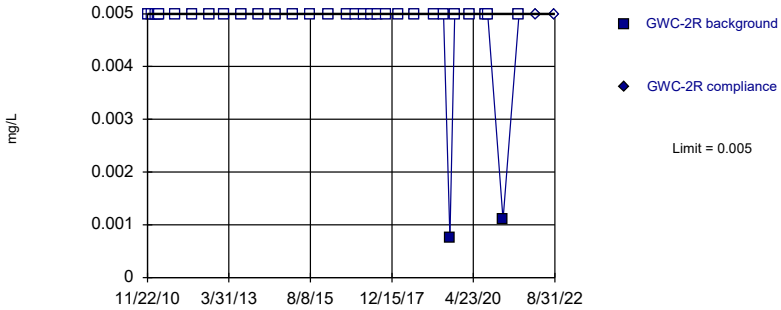
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Arsenic Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

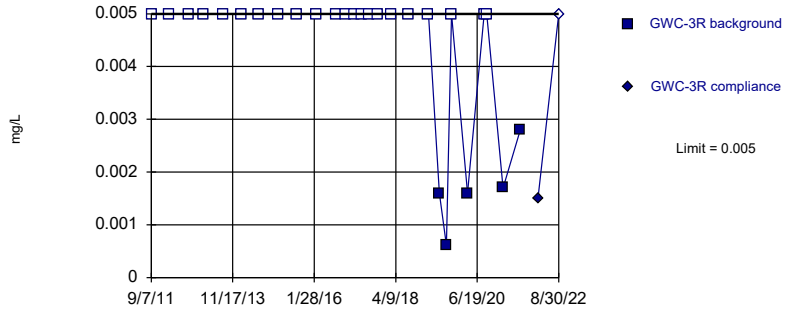
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 27 background values. 81.48% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Arsenic Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

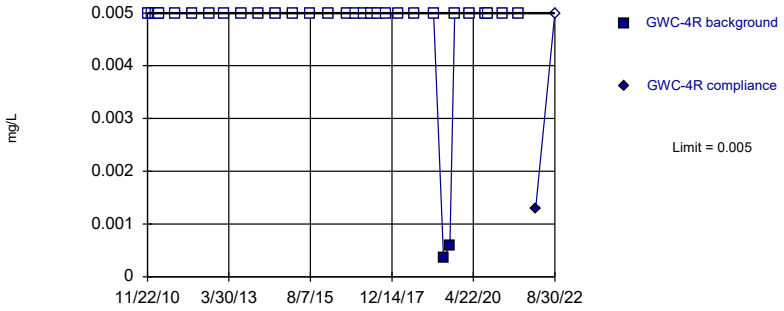
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Arsenic Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

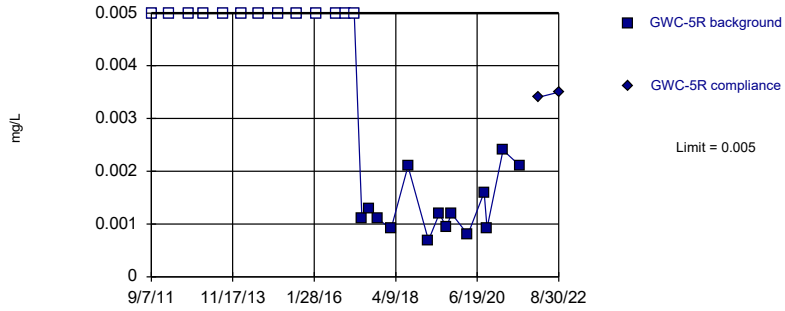
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 48.15% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Arsenic Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

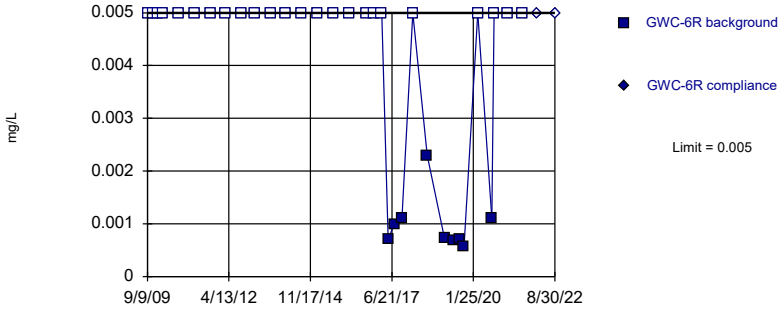
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 33 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.003399. Individual comparison alpha = 0.001701 (1 of 2).

Constituent: Arsenic Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

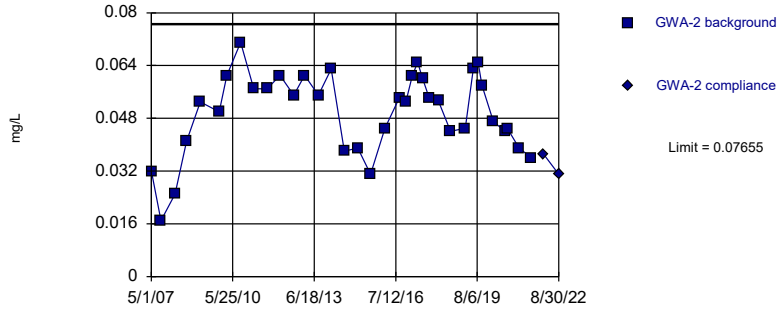
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.04995, Std. Dev.=0.01231, n=36. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9537, critical = 0.912. Kappa = 2.161 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

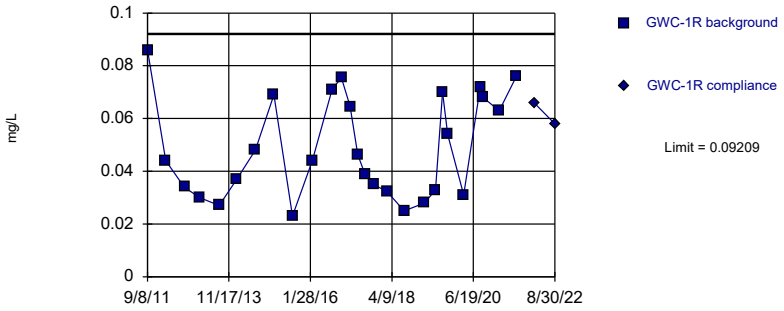
Constituent: Barium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.04909, Std. Dev.=0.01922, n=27. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9082, critical = 0.894. Kappa = 2.237 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

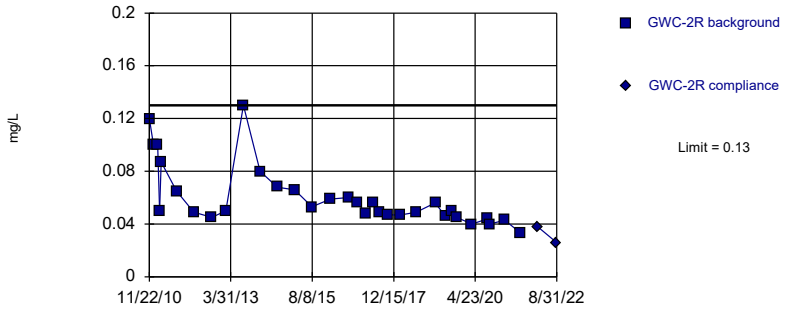
Constituent: Barium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

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 32 background values. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

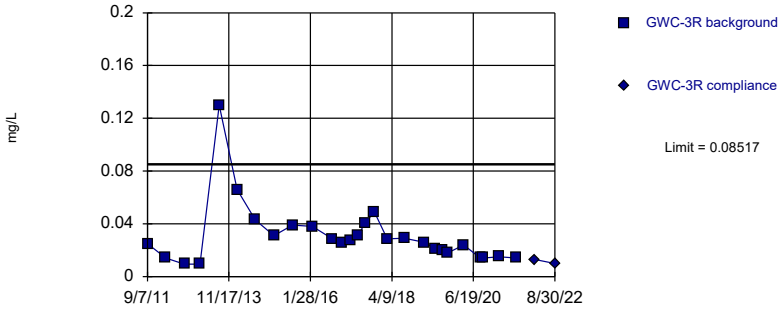
Constituent: Barium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=0.3004, Std. Dev.=0.06239, n=27. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9031, critical = 0.894. Kappa = 2.237 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

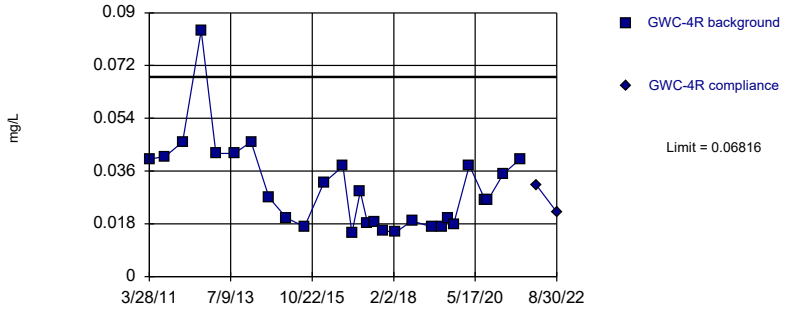
Constituent: Barium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=0.3039, Std. Dev.=0.04699, n=28. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9014, critical = 0.896. Kappa = 2.226 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

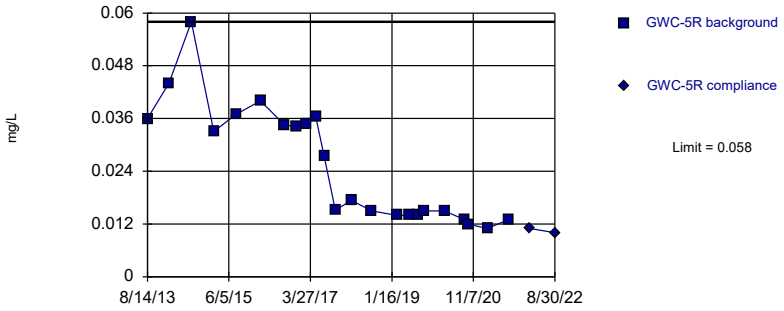
Constituent: Barium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

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 10/25/2022 1:30 PM View: Appendix I & II

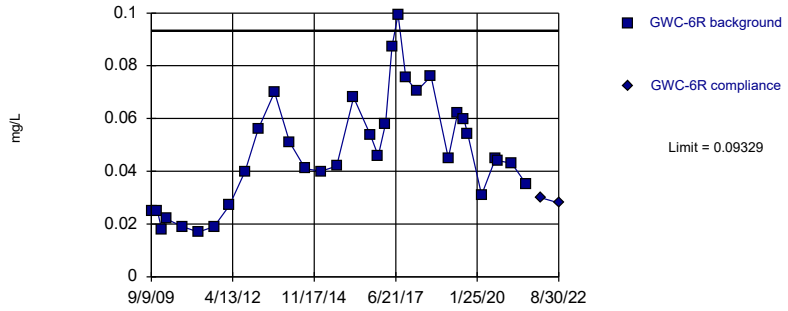
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.04743, Std. Dev.=0.02102, n=33. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.958, critical = 0.906. Kappa = 2.181 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Barium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

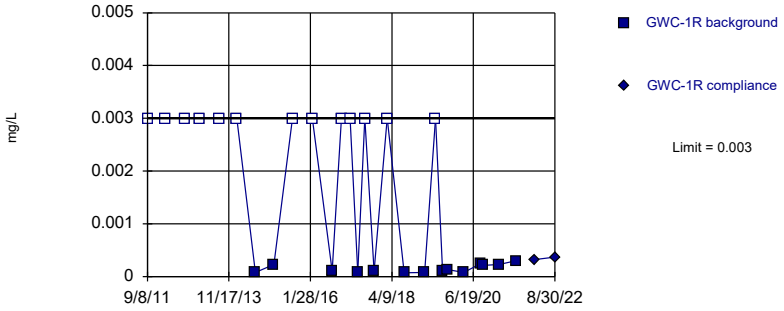
Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 48.15% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Beryllium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

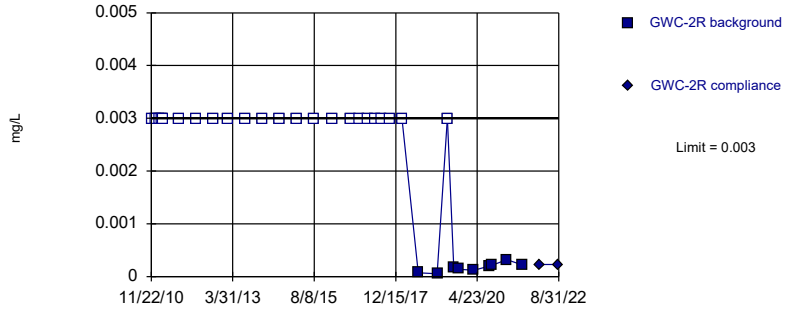
Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

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 32 background values. 71.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Beryllium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

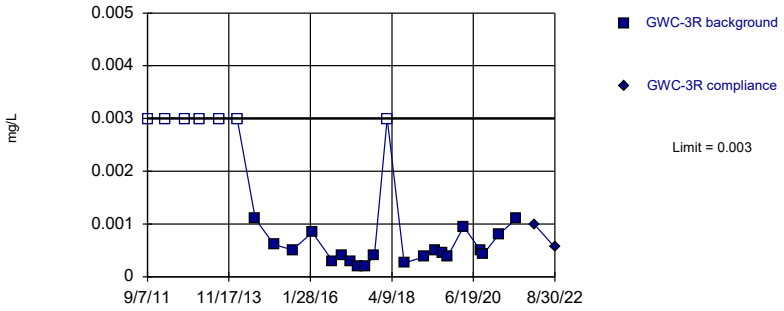
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 25.93% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Beryllium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

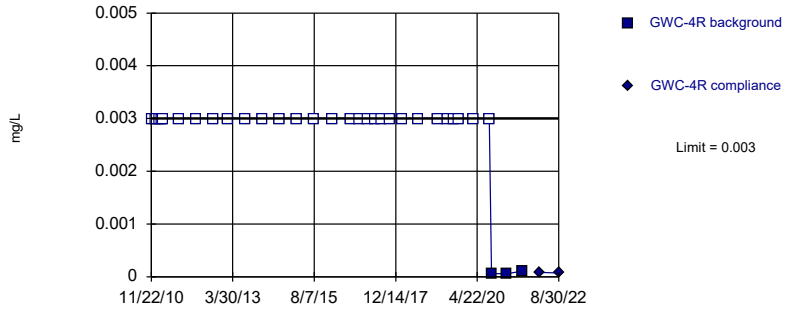
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 32 background values. 90.63% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Beryllium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

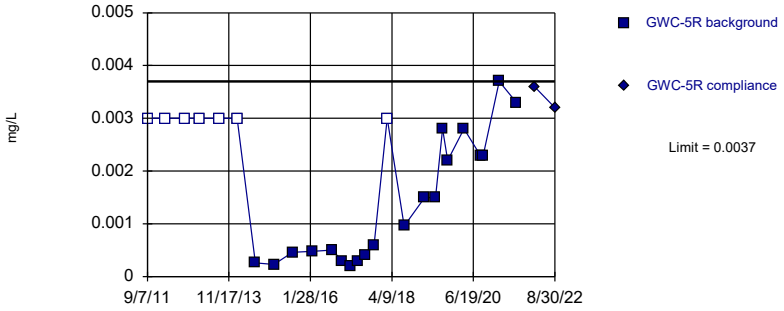
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 25.93% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Beryllium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

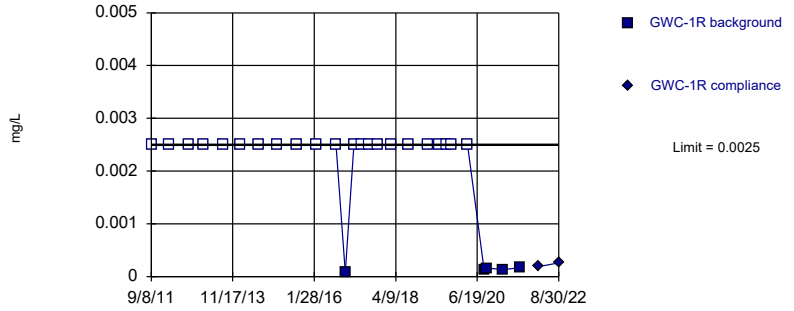
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 27 background values. 81.48% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Cadmium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

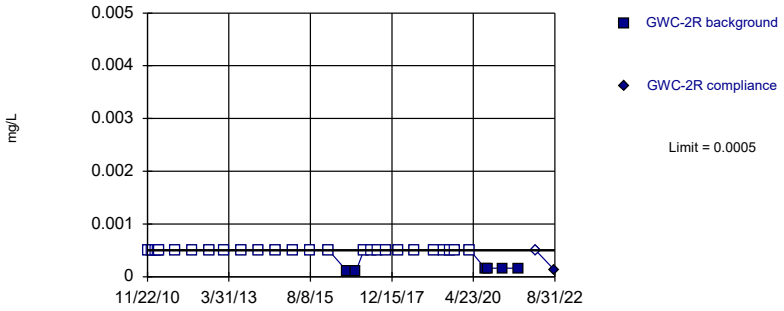
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 32 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cadmium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

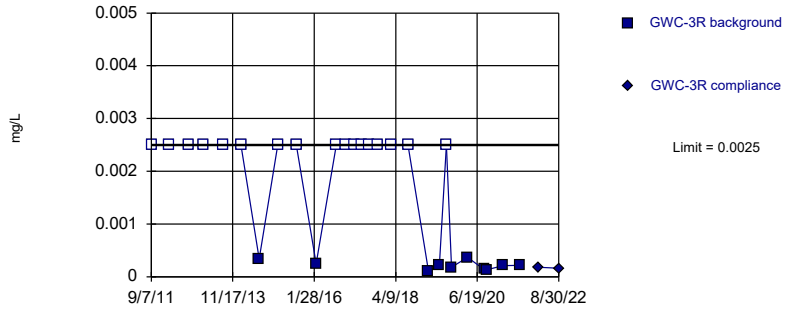
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 27 background values. 62.96% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Cadmium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

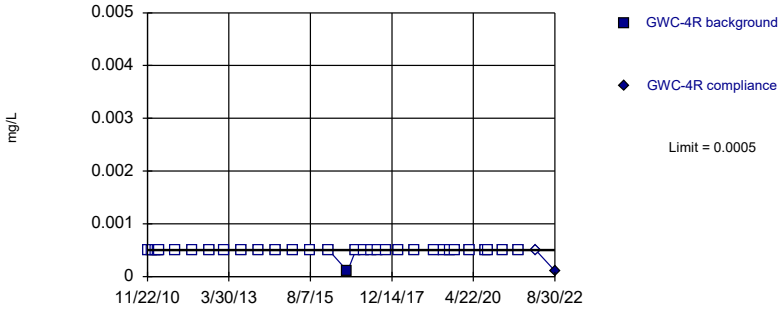
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cadmium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

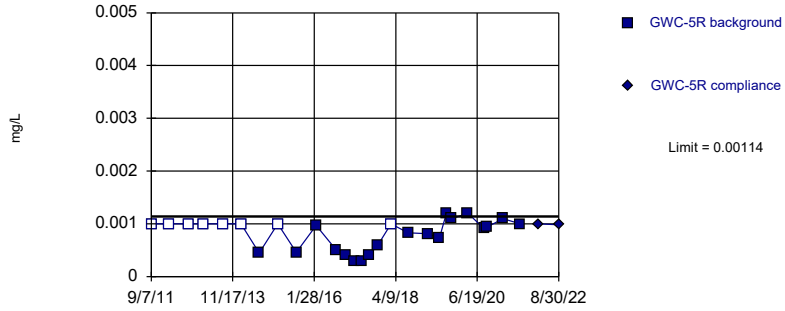
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation) (after Kaplan-Meier Adjustment): Mean=4.6e-10, Std. Dev.=4.5e-10, n=27, 29.63% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.898, critical = 0.894. Kappa = 2.237 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Cadmium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

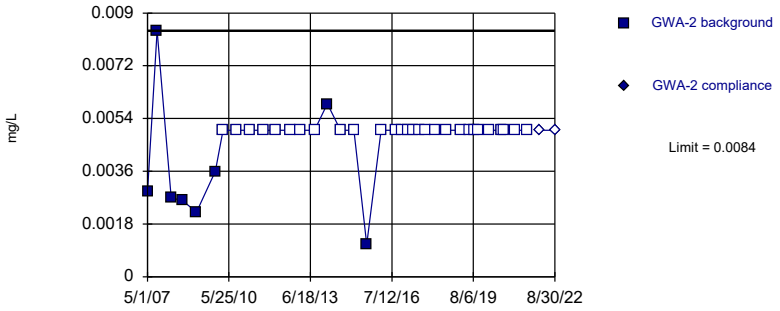
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 36 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.002856. Individual comparison alpha = 0.001429 (1 of 2).

Constituent: Chromium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

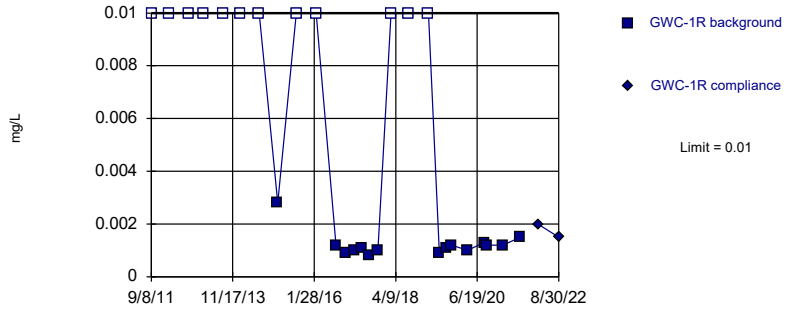
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 44.44% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Chromium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

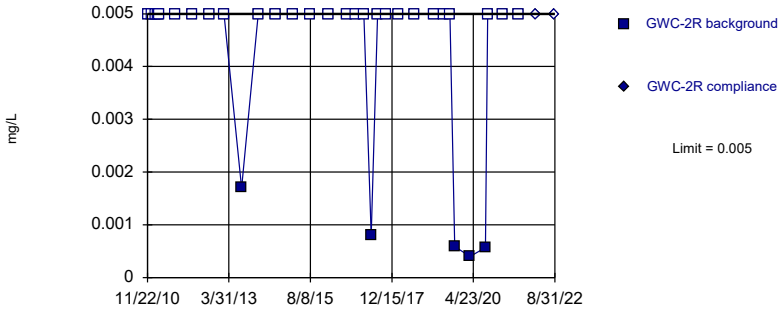
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 32 background values. 84.38% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Chromium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

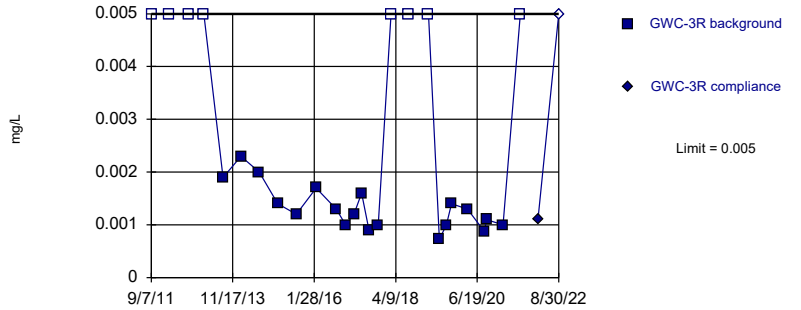
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 29.63% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Chromium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

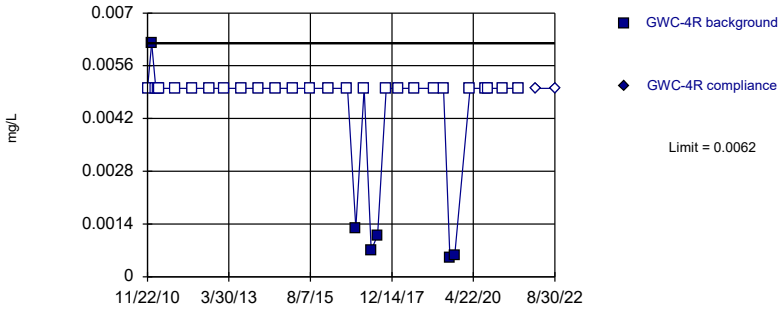
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 32 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Chromium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

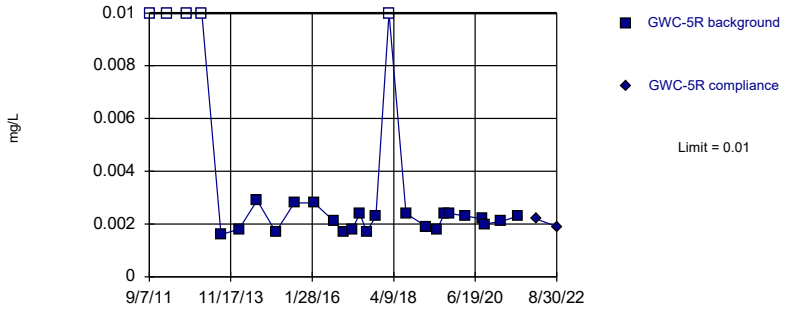
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 18.52% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Chromium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

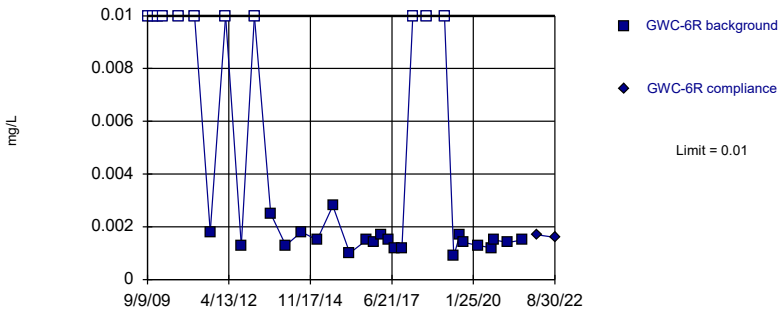
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 33 background values. 33.33% NDs. Well-constituent pair annual alpha = 0.003399. Individual comparison alpha = 0.001701 (1 of 2).

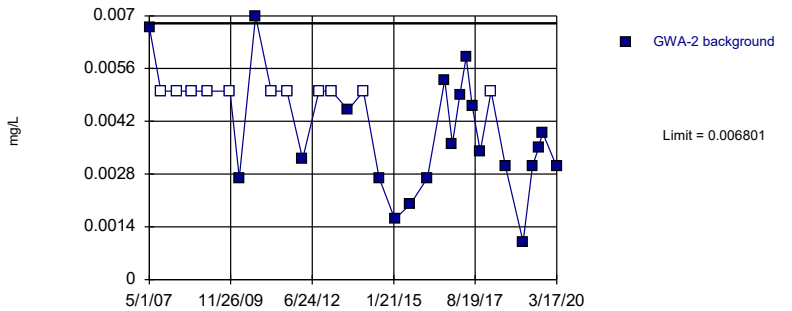
Constituent: Chromium Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Prediction Limit

Intrawell Parametric, GWA-2 (bg)



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.00327, Std. Dev.=0.001613, n=32, 34.38% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9368, critical = 0.904. Kappa = 2.189 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852. Assumes 1 future value.

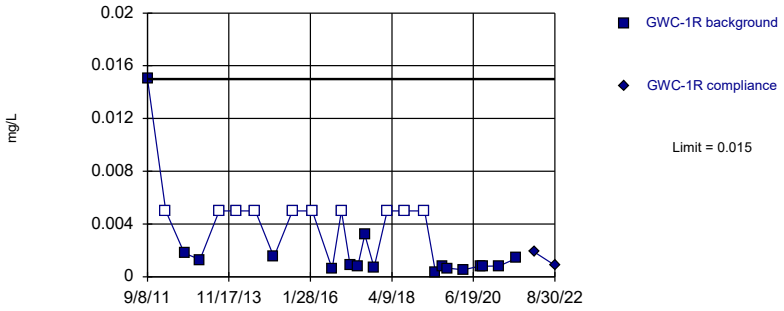
Constituent: Cobalt Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



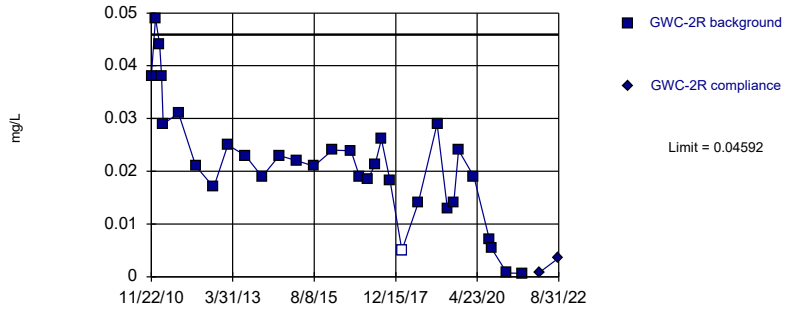
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 37.04% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Cobalt Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Parametric



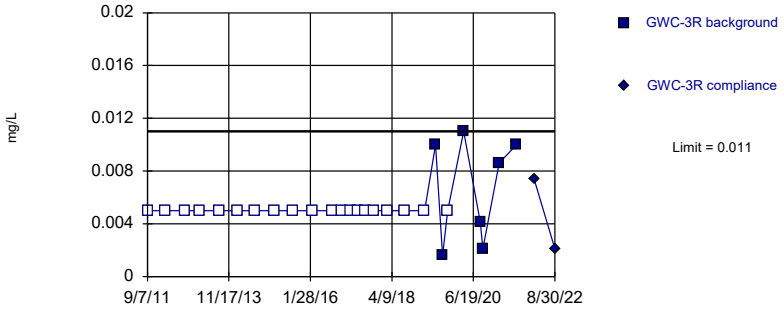
Background Data Summary: Mean=0.02134, Std. Dev.=0.01123, n=32, 3.125% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9581, critical = 0.904. Kappa = 2.189 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Cobalt Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



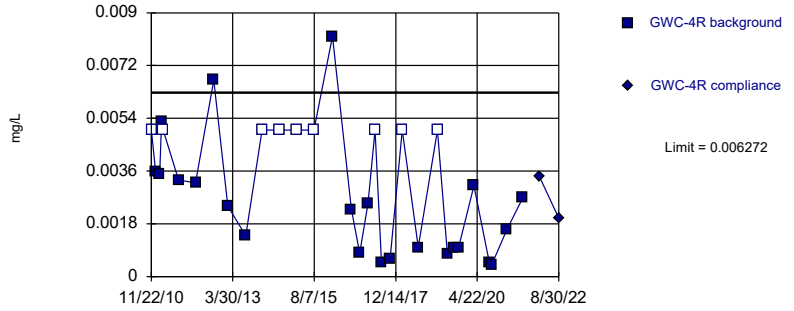
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 74.07% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Cobalt Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002253, Std. Dev.=0.001836, n=32, 28.13% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9125, critical = 0.904. Kappa = 2.189 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

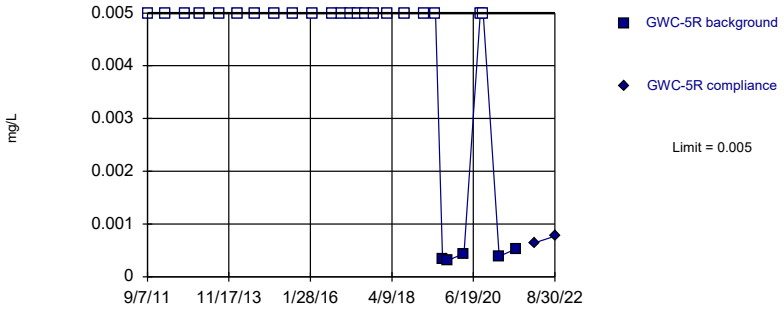
Constituent: Cobalt Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 27 background values. 81.48% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Cobalt Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

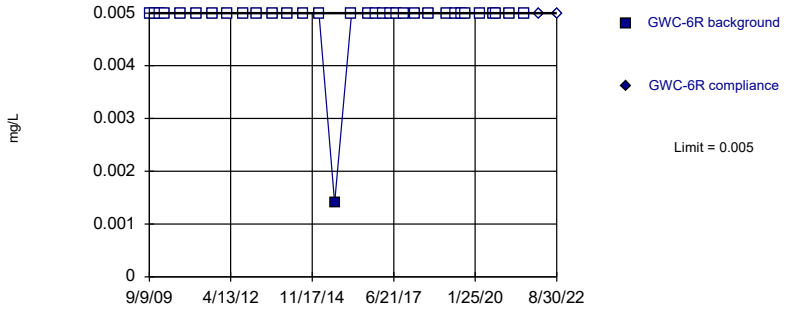
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 33 background values. 96.97% NDs. Well-constituent pair annual alpha = 0.003399. Individual comparison alpha = 0.001701 (1 of 2).

Constituent: Cobalt Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

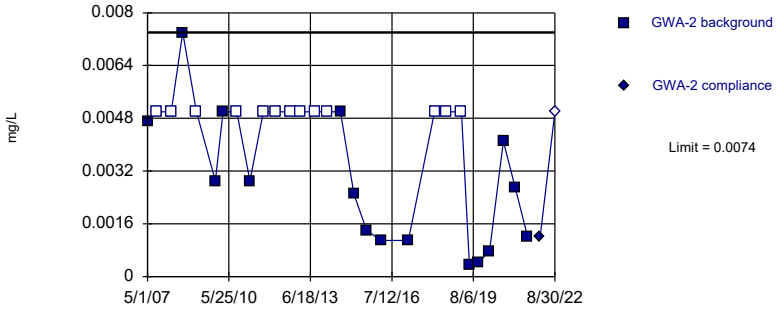
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 29 background values. 44.83% NDs. Well-constituent pair annual alpha = 0.00434. Individual comparison alpha = 0.002172 (1 of 2).

Constituent: Copper Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

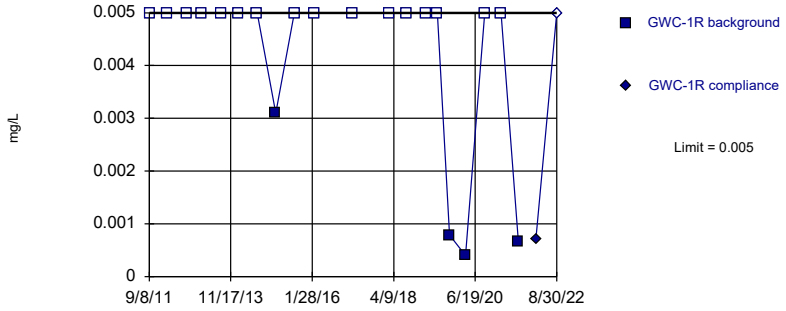
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

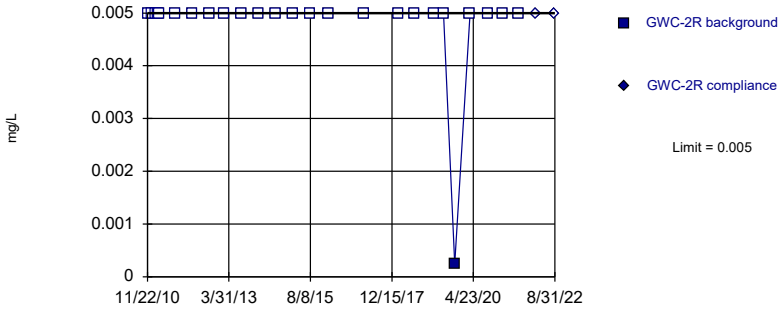
Constituent: Copper Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



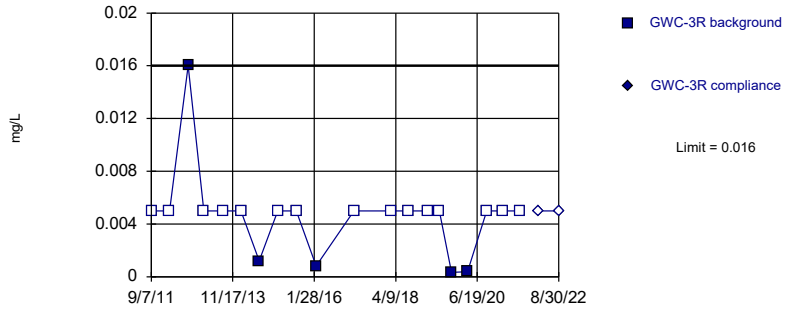
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 96% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Copper Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



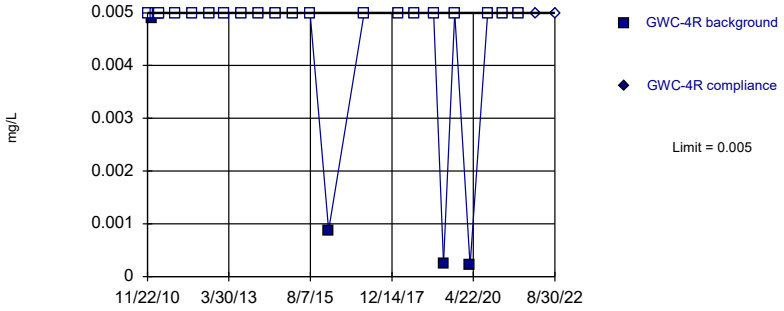
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Copper Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



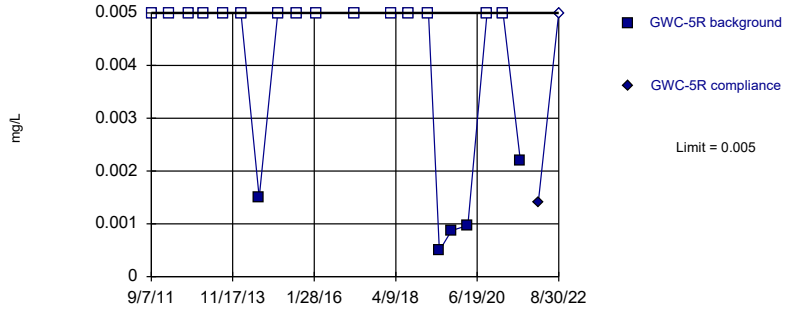
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 25 background values. 84% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Copper Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

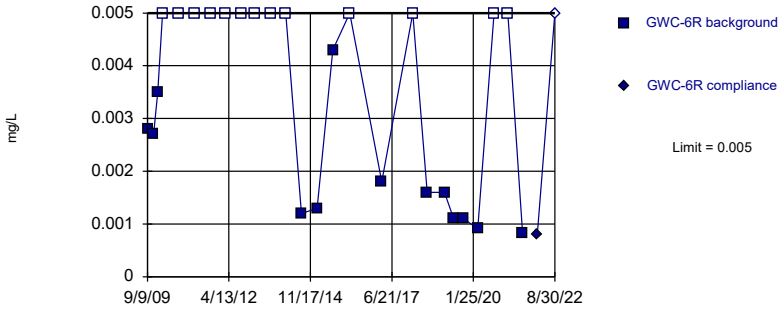
Constituent: Copper Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 26 background values. 50% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Copper Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

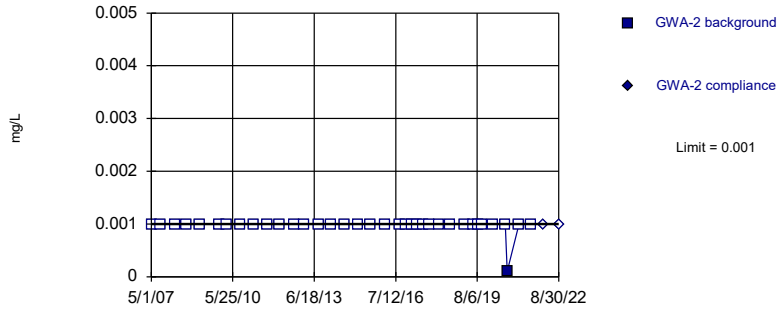
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 36 background values. 97.22% NDs. Well-constituent pair annual alpha = 0.002856. Individual comparison alpha = 0.001429 (1 of 2).

Constituent: Lead Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

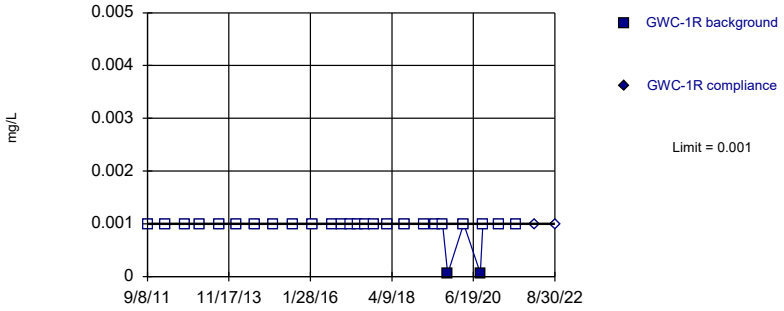
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 27 background values. 92.59% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Lead Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

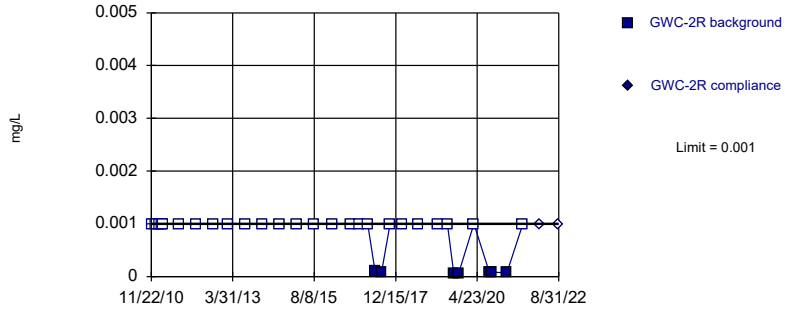
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 32 background values. 78.13% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

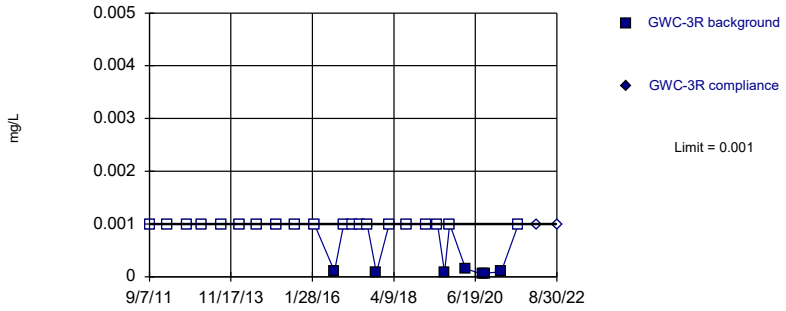
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 27 background values. 74.07% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

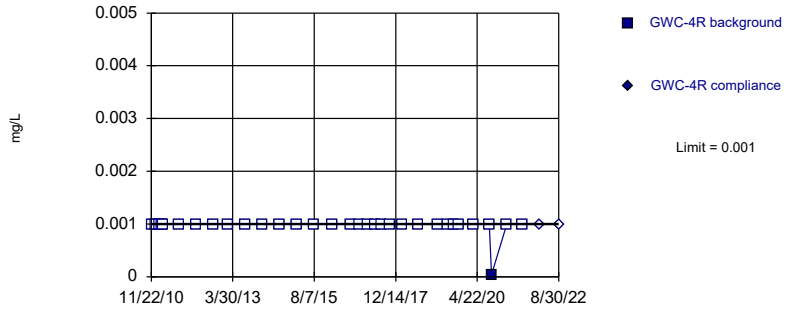
Constituent: Lead Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

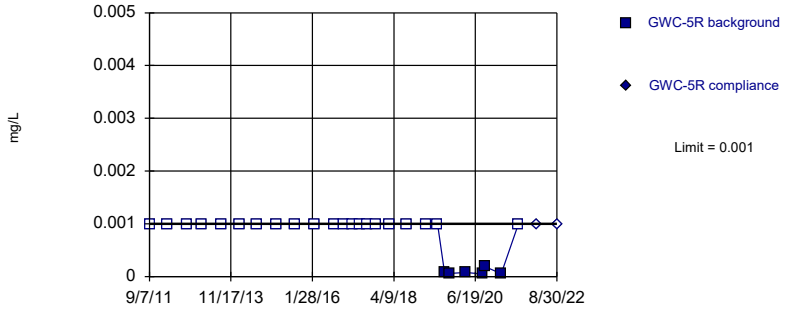
Constituent: Lead Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 27 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

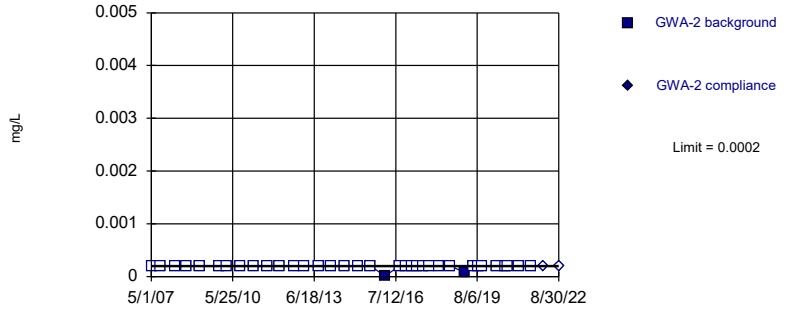
Constituent: Lead Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 36 background values. 94.44% NDs. Well-constituent pair annual alpha = 0.002856. Individual comparison alpha = 0.001429 (1 of 2).

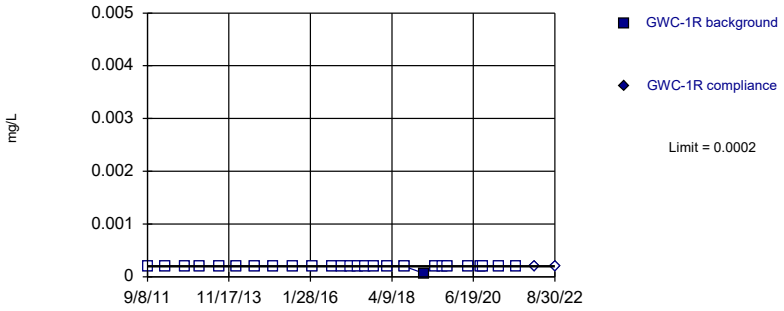
Constituent: Mercury Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 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 10/25/2022 1:30 PM View: Appendix I & II

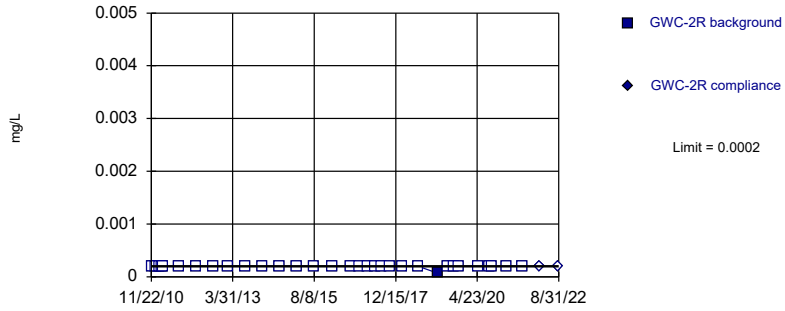
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Mercury Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

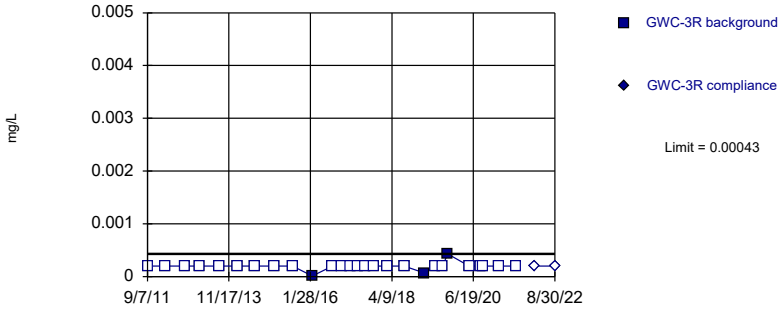
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 27 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Mercury Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

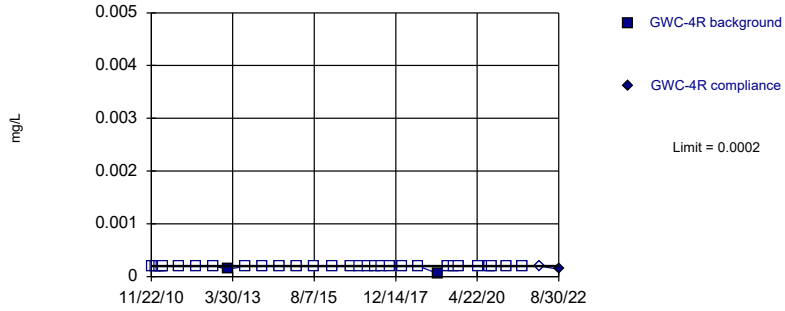
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

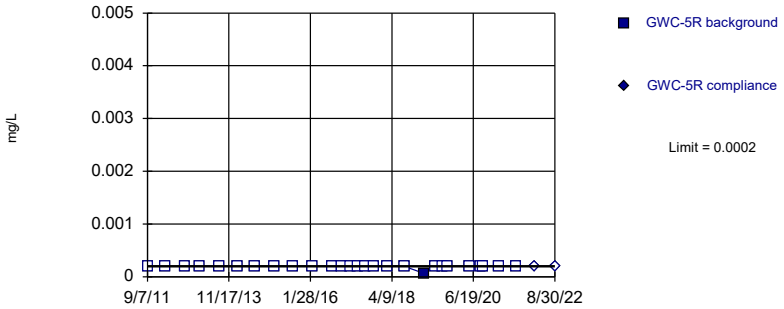
Constituent: Mercury Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



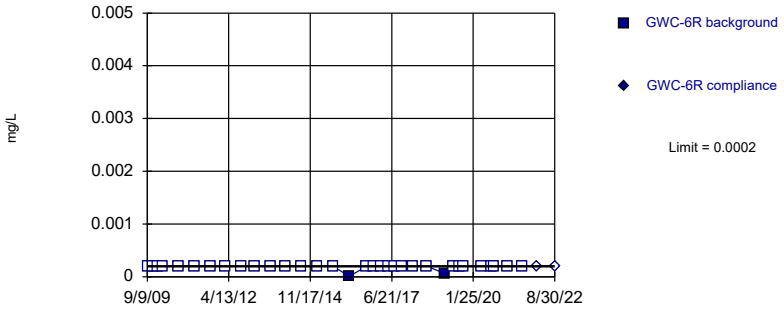
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Mercury Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



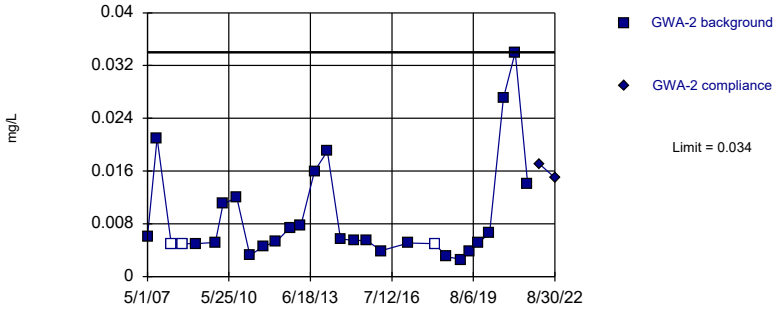
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 33 background values. 93.94% NDs. Well-constituent pair annual alpha = 0.003399. Individual comparison alpha = 0.001701 (1 of 2).

Constituent: Mercury Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



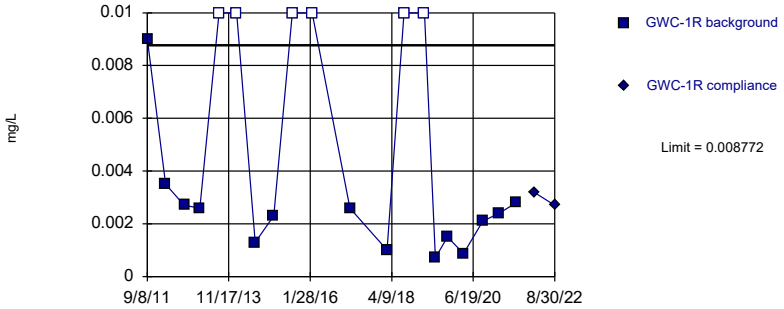
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 29 background values. 10.34% NDs. Well-constituent pair annual alpha = 0.00434. Individual comparison alpha = 0.002172 (1 of 2).

Constituent: Nickel Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-6.236, Std. Dev.=0.6381, n=20, 30% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8747, critical = 0.868. Kappa = 2.35 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

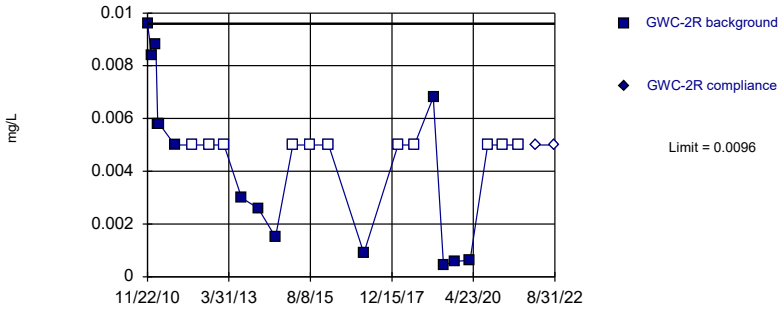
Constituent: Nickel Analysis Run 10/25/2022 1:30 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. 44% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Nickel Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

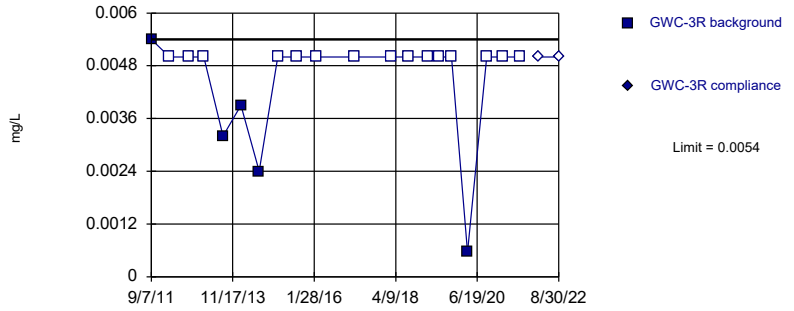
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Nickel Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

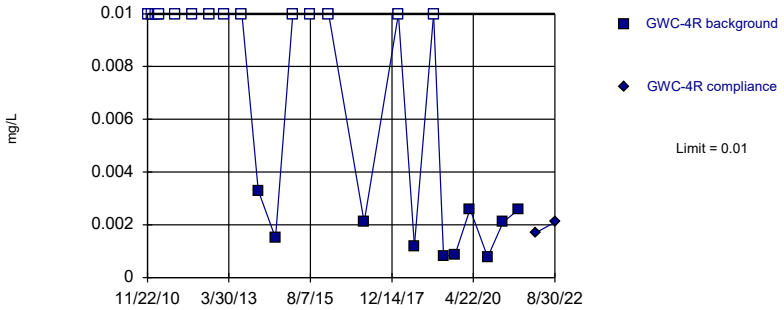
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 25 background values. 60% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

Constituent: Nickel Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

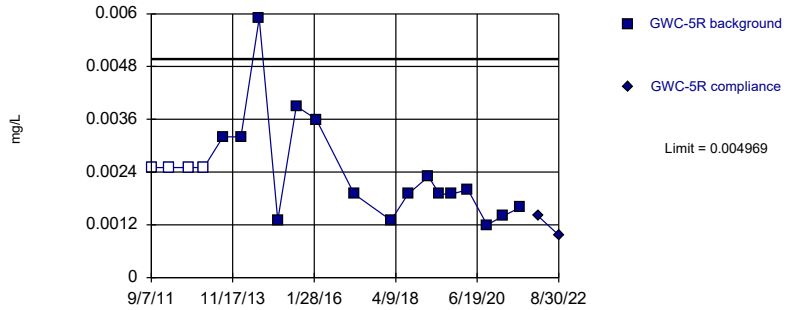
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.04397, Std. Dev.=0.01129, n=20, 20% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9186, critical = 0.868. Kappa = 2.35 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Nickel Analysis Run 10/25/2022 1:30 PM View: Appendix I & II

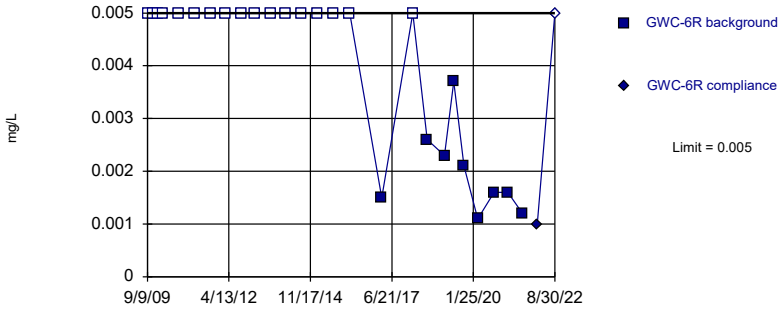
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 26 background values. 65.38% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Nickel Analysis Run 10/25/2022 1:31 PM View: Appendix I & II

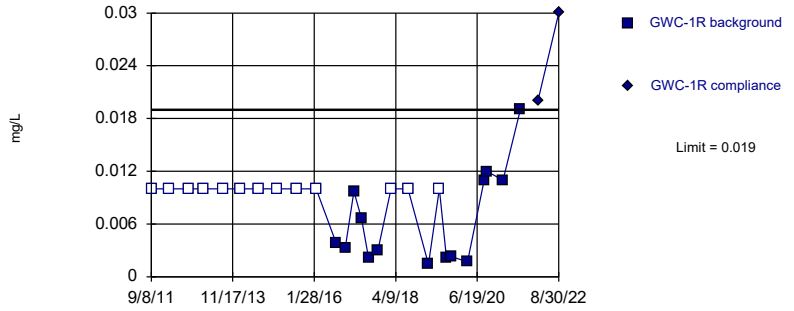
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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 27 background values. 48.15% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Selenium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II

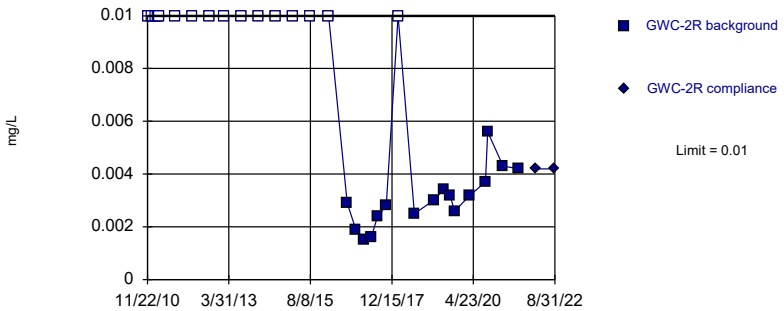
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 32 background values. 50% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Selenium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II

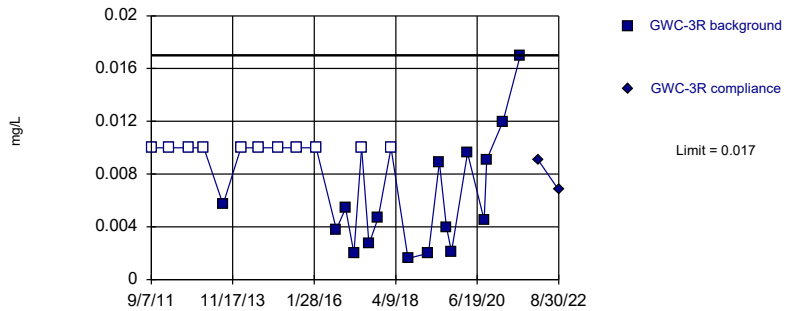
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 40.74% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Selenium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II

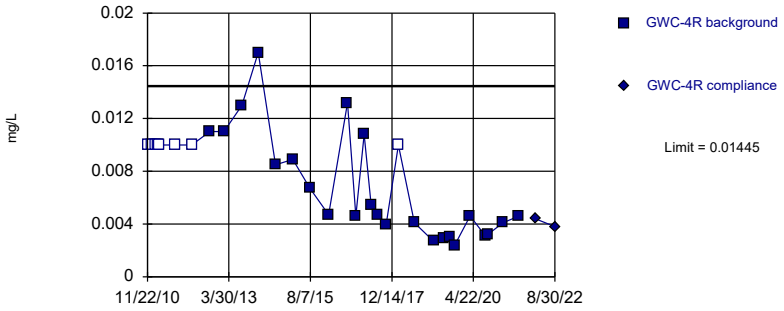
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.07177, Std. Dev.=0.02213, n=32, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9096, critical = 0.904. Kappa = 2.189 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Selenium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II

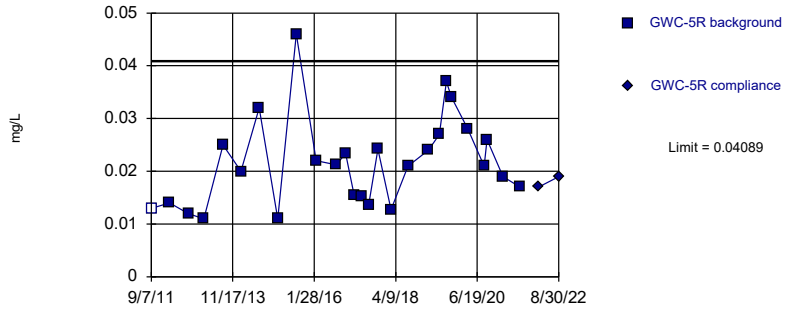
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.02169, Std. Dev.=0.008579, n=27, 3.704% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9252, critical = 0.894. Kappa = 2.237 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Selenium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II

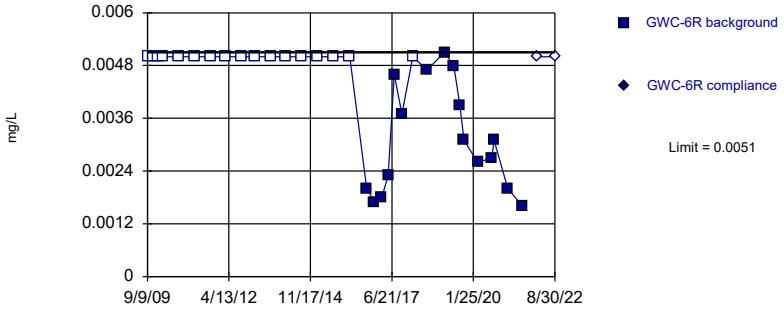
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 33 background values. 51.52% NDs. Well-constituent pair annual alpha = 0.003399. Individual comparison alpha = 0.001701 (1 of 2).

Constituent: Selenium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II

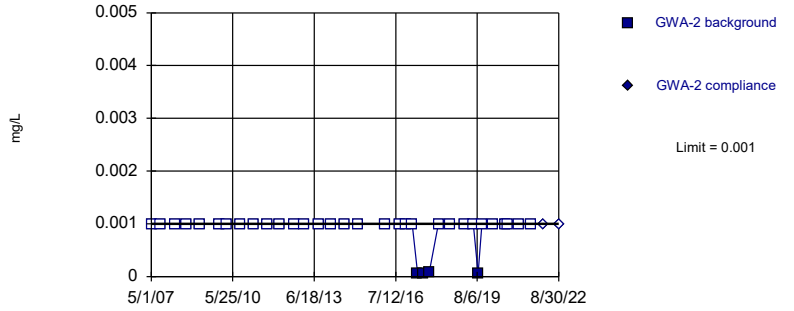
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 35 background values. 88.57% NDs. Well-constituent pair annual alpha = 0.002991. Individual comparison alpha = 0.001497 (1 of 2).

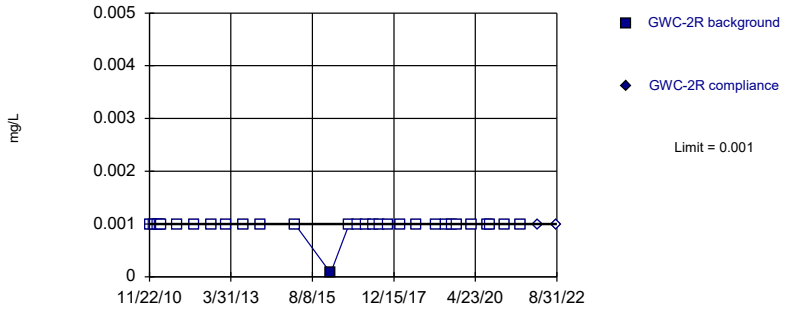
Constituent: Thallium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



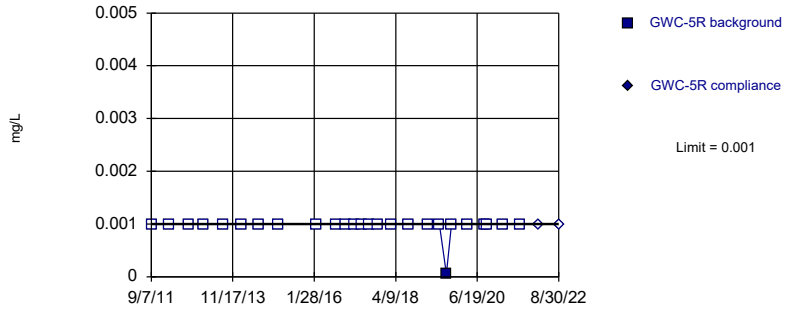
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 30 background values. 96.67% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Thallium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



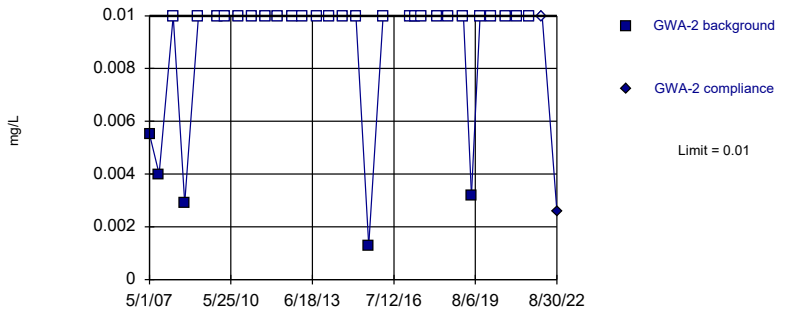
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 96.15% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Thallium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



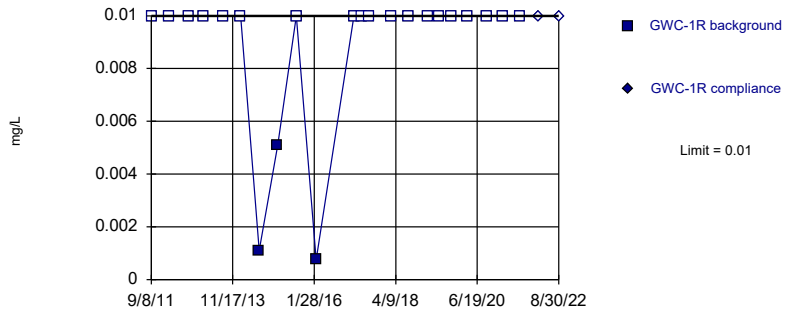
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 83.87% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Vanadium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 22 background values. 86.36% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

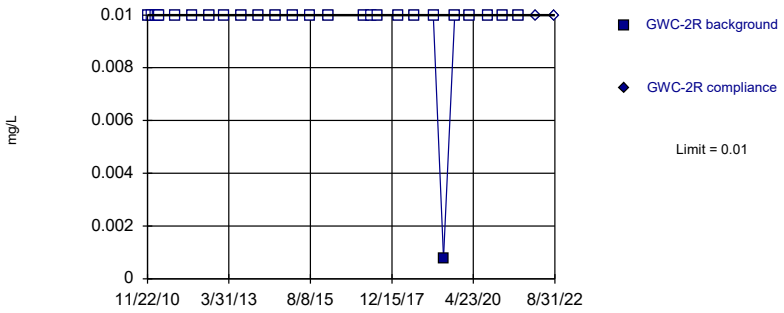
Constituent: Vanadium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Vanadium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II

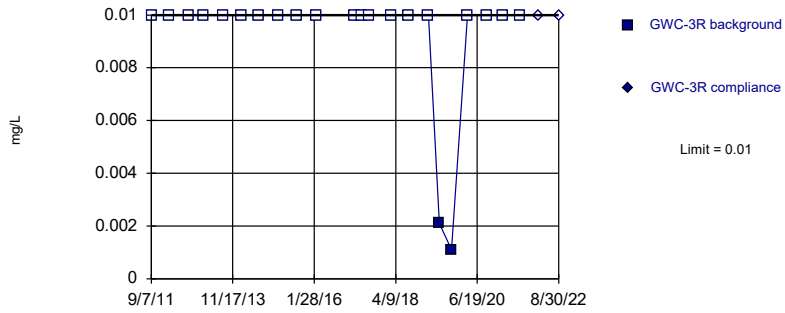
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 22 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Vanadium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II

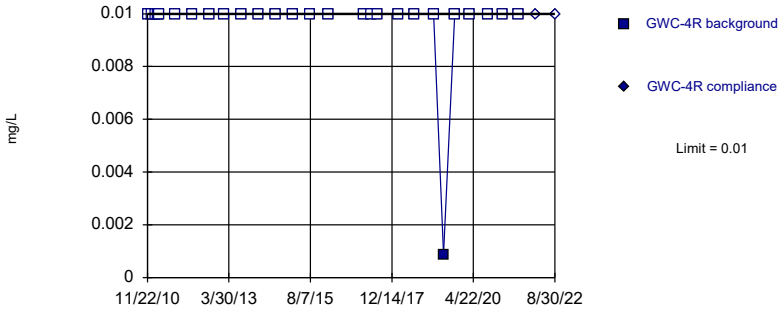
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Vanadium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II

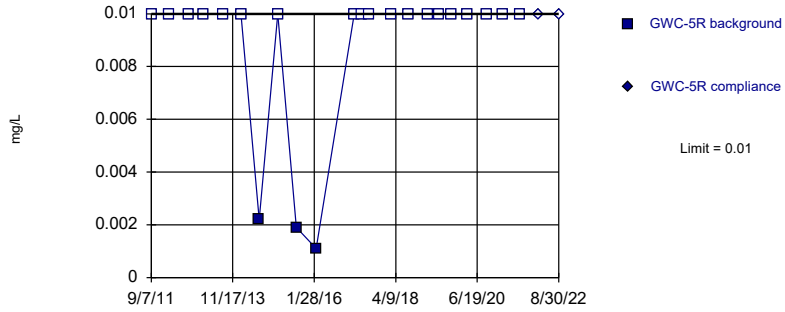
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 22 background values. 86.36% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Vanadium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II

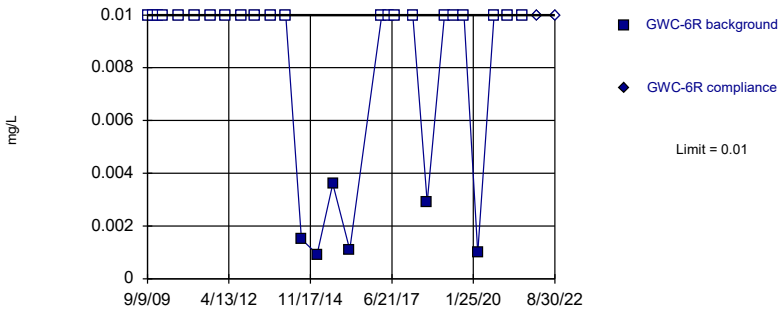
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 28 background values. 78.57% NDs. Well-constituent pair annual alpha = 0.004669. Individual comparison alpha = 0.002337 (1 of 2).

Constituent: Vanadium Analysis Run 10/25/2022 1:31 PM View: Appendix I & II

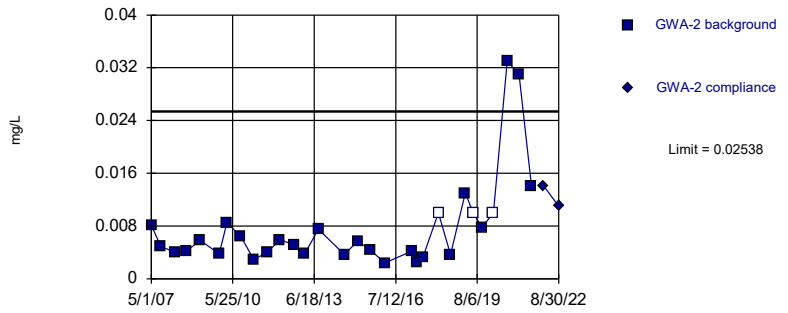
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-5.103, Std. Dev.=0.6488, n=30, 10% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9155, critical = 0.9. Kappa = 2.203 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Zinc Analysis Run 10/25/2022 1:31 PM View: Appendix I & II

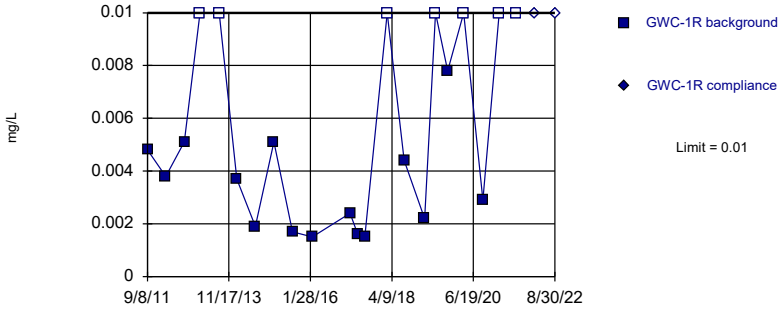
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 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. 31.82% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Zinc Analysis Run 10/25/2022 1:31 PM View: Appendix I & II

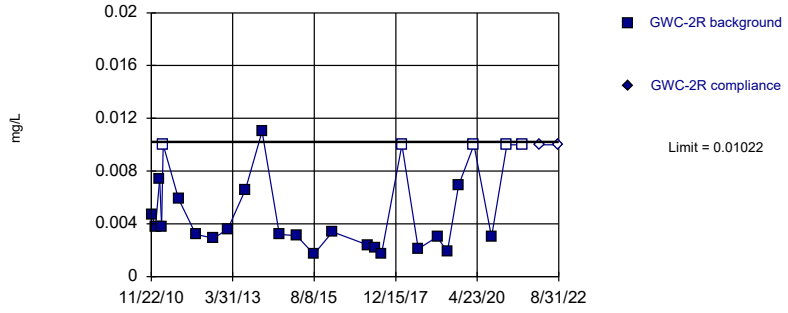
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-5.718, Std. Dev.=0.507, n=27, 18.52% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9098, critical = 0.894. Kappa = 2.237 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Zinc Analysis Run 10/25/2022 1:31 PM View: Appendix I & II

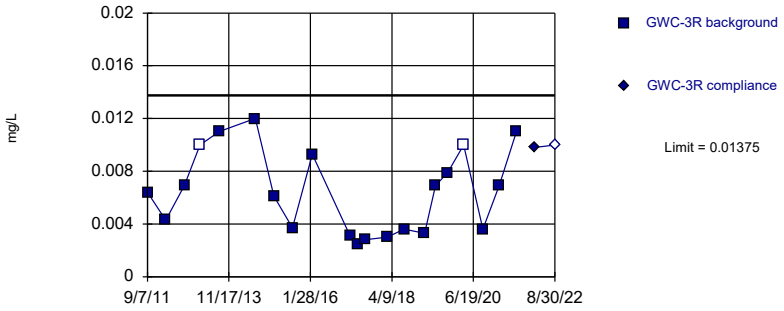
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.006395, Std. Dev.=0.003152, n=21, 9.524% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9027, critical = 0.873. Kappa = 2.332 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Zinc Analysis Run 10/25/2022 1:31 PM View: Appendix I & II

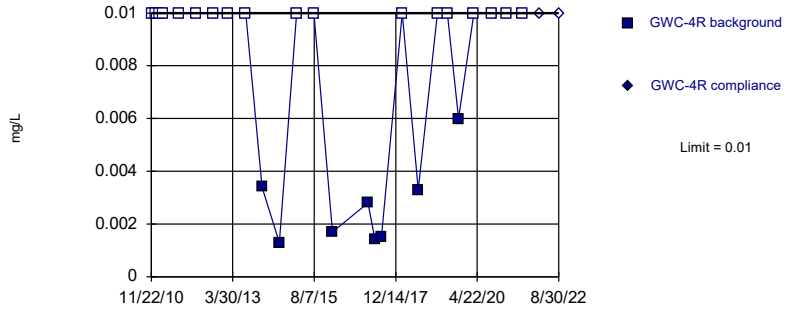
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 26 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Zinc Analysis Run 10/25/2022 1:31 PM View: Appendix I & II

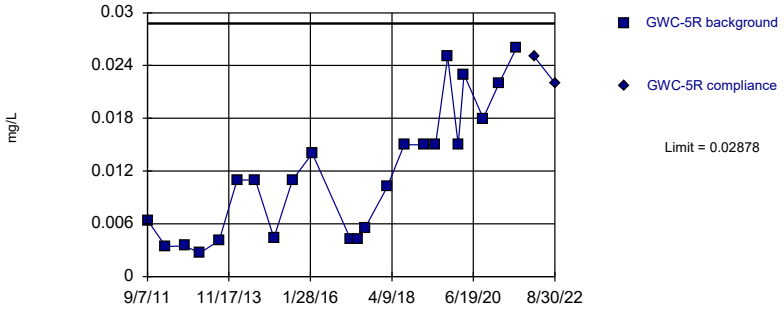
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.01173, Std. Dev.=0.007426, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9059, 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 10/25/2022 1:31 PM View: Appendix I & II

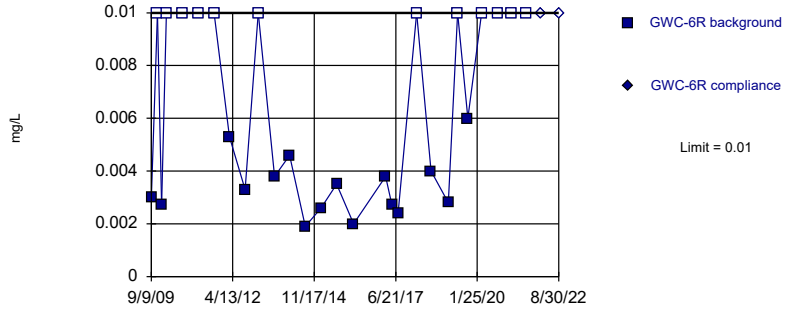
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 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 the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 28 background values. 42.86% NDs. Well-constituent pair annual alpha = 0.004669. Individual comparison alpha = 0.002337 (1 of 2).

Constituent: Zinc Analysis Run 10/25/2022 1:31 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		<0.003
8/30/2022		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/9/2022		<0.003
8/31/2022		<0.003

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		0.0017 (J)
8/30/2022		0.00094 (J)

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/9/2022		<0.003
8/30/2022		<0.003

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		0.0033 (J)
8/30/2022		0.0024 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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)	
2/8/2022		0.0026 (J)
8/30/2022		0.0035 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/9/2022		<0.005
8/31/2022		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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)	
2/8/2022		0.0015 (J)
8/30/2022		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		0.0013 (J)
8/30/2022		<0.005

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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)	
2/9/2022		0.0034 (J)
8/30/2022		0.0035 (J)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		<0.005
8/30/2022		<0.005

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		0.037
8/30/2022		0.031

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		0.066
8/30/2022		0.058

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/9/2022		0.038
8/31/2022		0.026

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		0.013
8/30/2022		0.01

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		0.031
8/30/2022		0.022

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/9/2022		0.011
8/30/2022		0.01

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		0.03
8/30/2022		0.028

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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)	
2/8/2022		0.00032 (J)
8/30/2022		0.00037 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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)	
2/9/2022		0.00023 (J)
8/31/2022		0.00023 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		0.001
8/30/2022		0.00056

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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)	
2/8/2022		8.5E-05 (J)
8/30/2022		7.2E-05 (J)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/9/2022		0.0036
8/30/2022		0.0032

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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)	
2/8/2022		0.00019 (J)
8/30/2022		0.00026 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
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	
3/6/2012	<0.0005	
9/11/2012	<0.0005	
2/6/2013	<0.0005	
8/13/2013	<0.0005	
2/4/2014	<0.0005	
8/5/2014	<0.0005	
2/2/2015	<0.0005	
8/4/2015	<0.0005	
2/17/2016	<0.0005	
8/31/2016	0.0001 (J)	
11/28/2016	0.0001 (J)	
2/22/2017	<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	
8/20/2019	<0.0005	
10/9/2019	<0.0005	
3/18/2020	<0.0005	
8/28/2020	0.00015 (J)	
9/22/2020	0.00016 (J)	
3/1/2021	0.00016 (J)	
8/18/2021	0.00016 (J)	
2/9/2022		<0.0005
8/31/2022		0.00012 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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)	
2/8/2022		0.00018 (J)
8/30/2022		0.00016 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		<0.0005
8/30/2022		0.00011 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/9/2022		0.001
8/30/2022		0.00098

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		<0.005
8/30/2022		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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)	
2/8/2022		0.002 (J)
8/30/2022		0.0015 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/9/2022		<0.005
8/31/2022		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		0.0011 (J)
8/30/2022		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		<0.005
8/30/2022		<0.005

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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)	
2/9/2022		0.0022 (J)
8/30/2022		0.0019 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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)	
2/8/2022		0.0017 (J)
8/30/2022		0.0016 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	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)	
2/8/2022		0.072 (o)
8/30/2022		0.075 (o)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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)	
2/8/2022		0.0019 (J)
8/30/2022		0.00087 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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)	
2/9/2022		0.00085 (J)
8/31/2022		0.0036 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		0.0074
8/30/2022		0.0021 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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)	
2/8/2022		0.0034 (J)
8/30/2022		0.002 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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)	
2/9/2022		0.00064 (J)
8/30/2022		0.00077 (J)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		<0.005
8/30/2022		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
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	
11/18/2009	0.0029	
3/3/2010	0.005	
9/8/2010	<0.005	
3/10/2011	0.0029	
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	0.0025 (J)	
8/3/2015	0.0014 (J)	
2/16/2016	0.0011 (J)	
2/22/2017	0.0011 (J)	
2/19/2018	<0.005	
8/6/2018	<0.005	
2/25/2019	<0.005	
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)	
2/8/2022		0.0012 (J)
8/30/2022		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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)	
2/8/2022		0.00072 (J)
8/30/2022		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/9/2022		<0.005
8/31/2022		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		<0.005
8/30/2022		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		<0.005
8/30/2022		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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)	
2/9/2022		0.0014 (J)
8/30/2022		<0.005

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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)	
2/8/2022		0.0008 (J)
8/30/2022		<0.005

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		<0.001
8/30/2022		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		<0.001
8/30/2022		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/9/2022		<0.001
8/31/2022		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		<0.001
8/30/2022		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		<0.001
8/30/2022		<0.001

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/9/2022		<0.001
8/30/2022		<0.001

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		<0.0002
8/30/2022		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		<0.0002
8/30/2022		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/9/2022		<0.0002
8/31/2022		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		<0.0002
8/30/2022		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		<0.0002
8/30/2022		0.00014 (J)

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/9/2022		<0.0002
8/30/2022		<0.0002

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		<0.0002
8/30/2022		<0.0002

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		0.017
8/30/2022		0.015

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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)	
2/8/2022		0.0032 (J)
8/30/2022		0.0027 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/9/2022		<0.005
8/31/2022		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		<0.005
8/30/2022		<0.005

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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)	
2/8/2022		0.0017 (J)
8/30/2022		0.0021 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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)	
2/9/2022		0.0014 (J)
8/30/2022		0.00097 (J)

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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)	
2/8/2022		0.001 (J)
8/30/2022		<0.005

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		0.02
8/30/2022		0.03

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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)	
2/9/2022		0.0042 (J)
8/31/2022		0.0042 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		0.0091
8/30/2022		0.0068

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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)	
2/8/2022		0.0044 (J)
8/30/2022		0.0038 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/9/2022		0.017
8/30/2022		0.019

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	0.002 (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	<0.005	
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)	
2/8/2022		<0.005
8/30/2022		<0.005

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		<0.001
8/30/2022		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/9/2022		<0.001
8/31/2022		<0.001

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/9/2022		<0.001
8/30/2022		<0.001

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		<0.01
8/30/2022		0.0026 (J)

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		<0.01
8/30/2022		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/9/2022		<0.01
8/31/2022		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		<0.01
8/30/2022		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		<0.01
8/30/2022		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/9/2022		<0.01
8/30/2022		<0.01

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		<0.01
8/30/2022		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		0.014
8/30/2022		0.011

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		<0.01
8/30/2022		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/9/2022		<0.01
8/31/2022		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		0.0098 (J)
8/30/2022		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		<0.01
8/30/2022		<0.01

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/9/2022		0.025
8/30/2022		0.022

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 10/25/2022 1:34 PM View: Appendix 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	
2/8/2022		<0.01
8/30/2022		<0.01

FIGURE E.

Intawell Prediction Limits Appendix III - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/21/2022, 4:33 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (S.U.)	**GWA-2**	**6.968**	**5.399**	**8/30/2022**	**5.39**	**Yes**	**30**	**6.184**	**0.3941**	**0**	**None**	**No**	**0.0006268**	**Param Intra 1 of 2**

Intawell Prediction Limits Appendix III - All Results

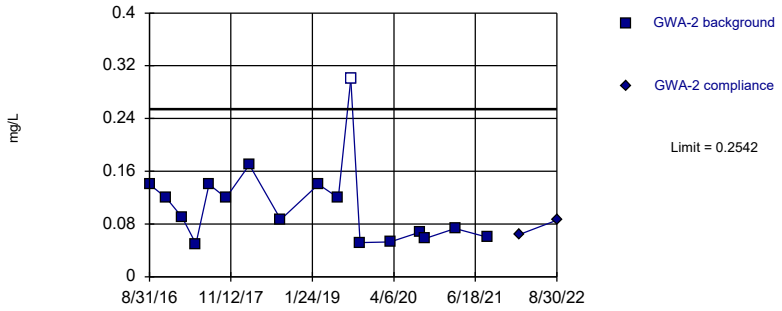
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/21/2022, 4:33 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GWA-2	0.2542	n/a	8/30/2022	0.086J	No	17	0.3185	0.08513	5.882	None	sqrt(x)	0.001254	Param Intra 1 of 2
Fluoride (mg/L)	GWC-1R	0.1	n/a	8/30/2022	0.1ND	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-2R	0.58	n/a	8/31/2022	0.1ND	No	17	n/a	n/a	70.59	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-3R	0.4329	n/a	8/30/2022	0.14	No	17	-2.548	0.7843	41.18	Kaplan-Meier	ln(x)	0.001254	Param Intra 1 of 2
Fluoride (mg/L)	GWC-4R	0.15	n/a	8/30/2022	0.05J	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-5R	0.37	n/a	8/30/2022	0.11	No	17	n/a	n/a	52.94	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-6R	0.28	n/a	8/30/2022	0.064J	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
pH (S.U.)	**GWA-2**	**6.968**	**5.399**	**8/30/2022**	**5.39**	**Yes**	**30**	**6.184**	**0.3941**	**0**	**None**	**No**	**0.0006268**	**Param Intra 1 of 2**
pH (S.U.)	GWC-1R	6.8	4.49	8/30/2022	5.07	No	18	n/a	n/a	0	n/a	n/a	0.01075	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-2R	6.8	4.35	8/31/2022	5.23	No	25	n/a	n/a	0	n/a	n/a	0.005664	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-3R	5.572	4.528	8/30/2022	4.85	No	18	25.78	2.447	0	None	x^2	0.0006268	Param Intra 1 of 2
pH (S.U.)	GWC-4R	6.16	5.07	8/30/2022	5.52	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-5R	5.568	4.599	8/30/2022	4.86	No	19	5.084	0.2272	0	None	No	0.0006268	Param Intra 1 of 2
pH (S.U.)	GWC-6R	6.79	5.2	8/30/2022	5.82	No	28	n/a	n/a	0	n/a	n/a	0.004674	NP Intra (normality) 1 of 2

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Parametric



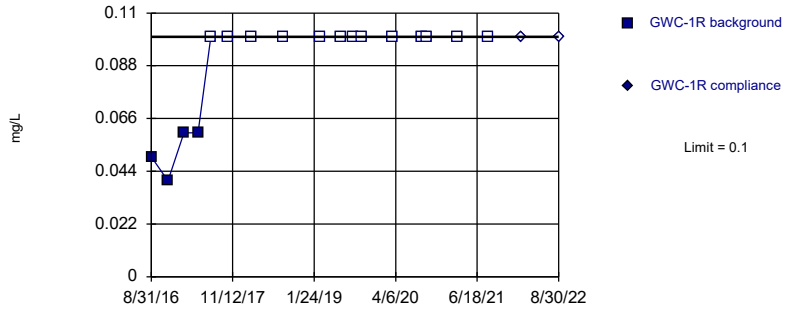
Background Data Summary (based on square root transformation): Mean=0.3185, Std. Dev.=0.08513, n=17, 5.882% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8884, critical = 0.851. Kappa = 2.181 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: Fluoride Analysis Run 10/21/2022 4:31 PM View: Appendix III - Intrawell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



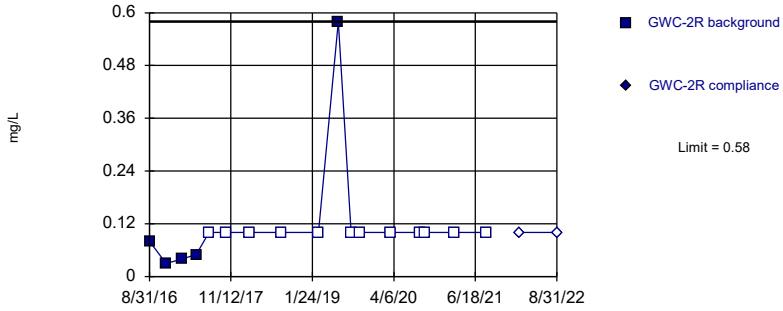
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 76.47% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Fluoride Analysis Run 10/21/2022 4:31 PM View: Appendix III - Intrawell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



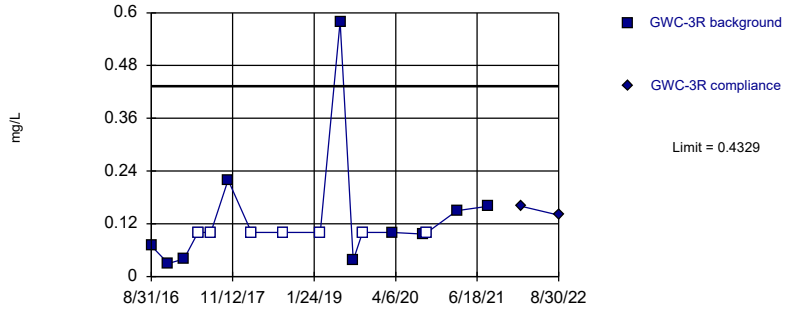
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 70.59% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Fluoride Analysis Run 10/21/2022 4:31 PM View: Appendix III - Intrawell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Parametric



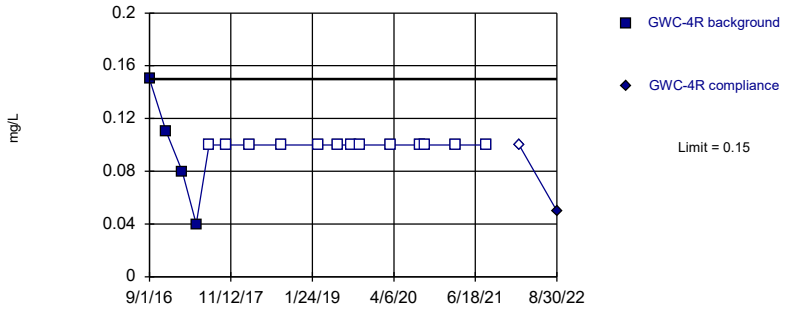
Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-2.548, Std. Dev.=0.7843, n=17, 41.18% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8757, critical = 0.851. Kappa = 2.181 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: Fluoride Analysis Run 10/21/2022 4:31 PM View: Appendix III - Intrawell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



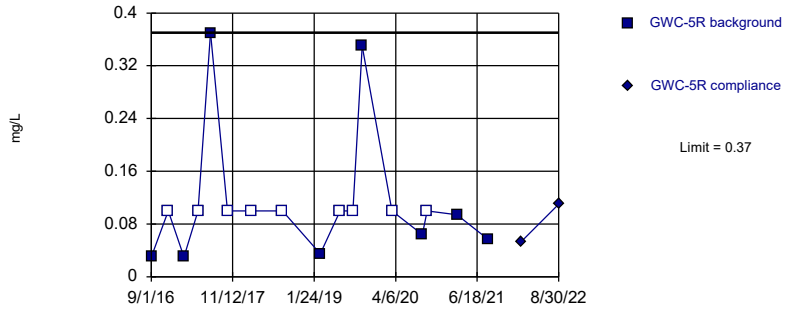
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 76.47% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Fluoride Analysis Run 10/21/2022 4:31 PM View: Appendix III - Intrawell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



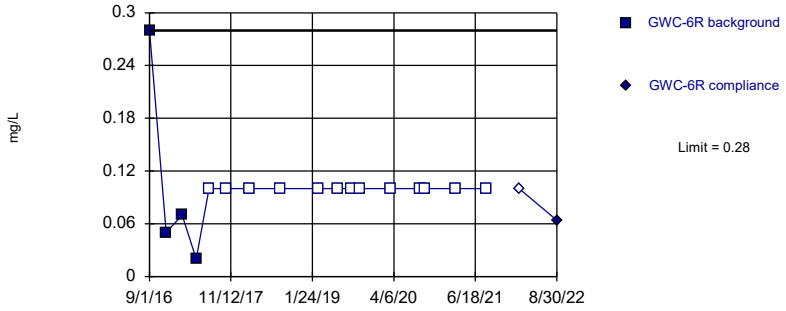
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 52.94% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Fluoride Analysis Run 10/21/2022 4:31 PM View: Appendix III - Intrawell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



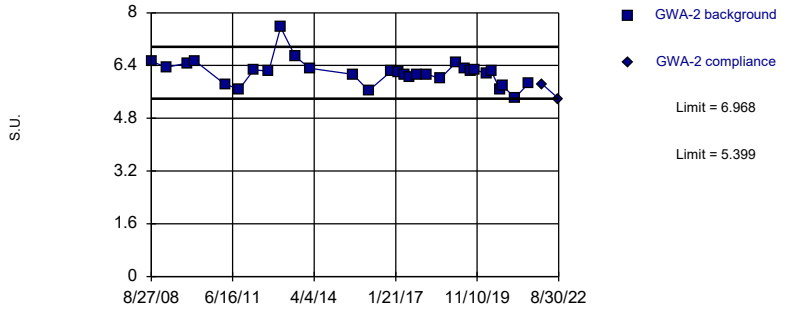
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 76.47% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Fluoride Analysis Run 10/21/2022 4:31 PM View: Appendix III - Intrawell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Exceeds Limits

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=6.184, Std. Dev.=0.3941, n=30. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9085, critical = 0.9. Kappa = 1.991 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

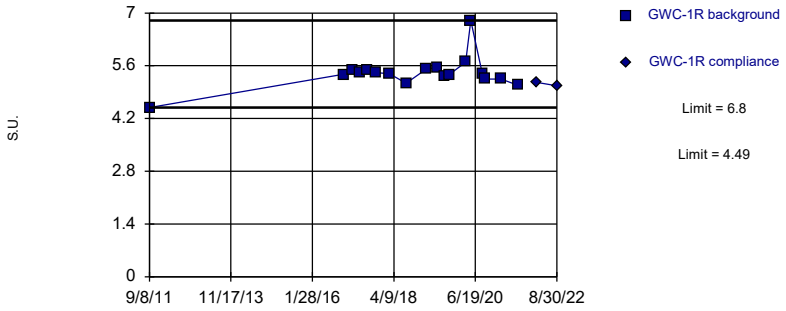
Constituent: pH Analysis Run 10/21/2022 4:31 PM View: Appendix III - Intrawell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

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 18 background values. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01075 (1 of 2).

Constituent: pH Analysis Run 10/21/2022 4:31 PM View: Appendix III - Intrawell PLs

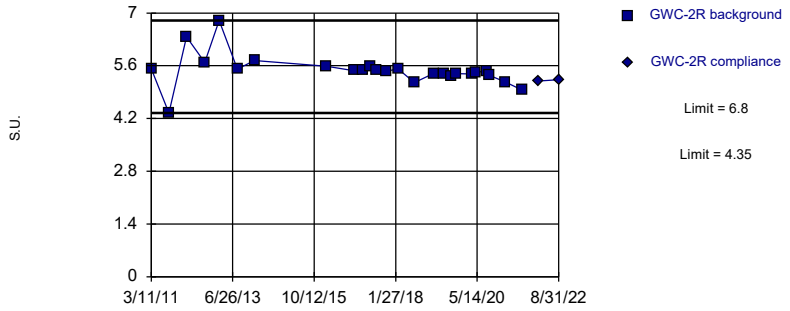
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

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 25 background values. Well-constituent pair annual alpha = 0.01131. Individual comparison alpha = 0.005664 (1 of 2).

Constituent: pH Analysis Run 10/21/2022 4:31 PM View: Appendix III - Intrawell PLs

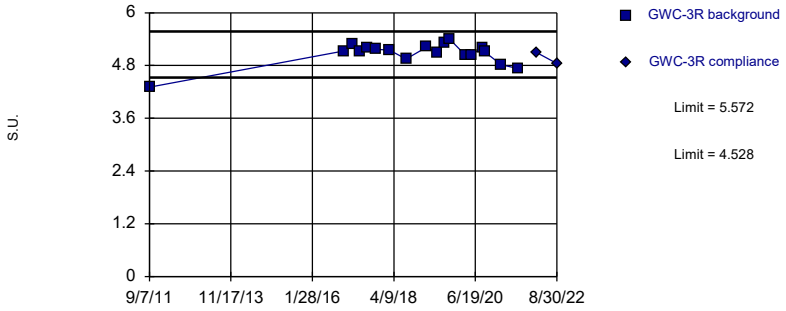
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=25.78, Std. Dev.=2.447, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8717, critical = 0.858. Kappa = 2.157 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: pH Analysis Run 10/21/2022 4:31 PM View: Appendix III - Intrawell PLs

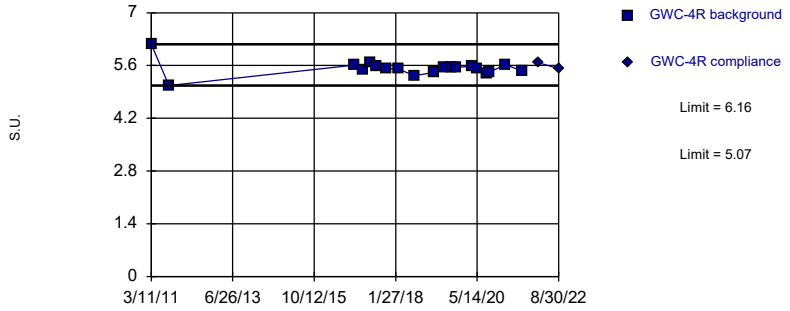
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

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 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH Analysis Run 10/21/2022 4:31 PM View: Appendix III - Intrawell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Within Limits

Prediction Limit

Intrawell Parametric

Background Data Summary: Mean=5.084, Std. Dev.=0.2272, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9657, 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 10/21/2022 4:32 PM View: Appendix III - Intrawell PLs

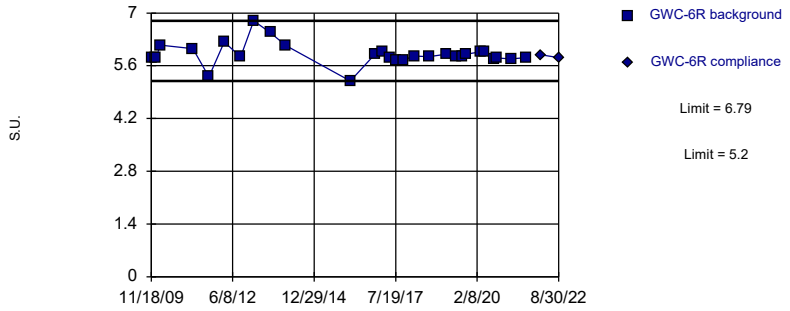
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

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 28 background values. Well-constituent pair annual alpha = 0.009338. Individual comparison alpha = 0.004674 (1 of 2).

Constituent: pH Analysis Run 10/21/2022 4:32 PM View: Appendix III - Intrawell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 4:33 PM View: Appendix III - Intrawell PLs

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)	
2/8/2022		0.064 (J)
8/30/2022		0.086 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 4:33 PM View: Appendix III - Intrawell PLs

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	
2/8/2022		<0.1
8/30/2022		<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 4:33 PM View: Appendix III - Intrawell PLs

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	
2/9/2022		<0.1
8/31/2022		<0.1

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 4:33 PM View: Appendix III - Intrawell PLs

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	
2/8/2022		0.16
8/30/2022		0.14

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 4:33 PM View: Appendix III - Intrawell PLs

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	
2/8/2022		<0.1
8/30/2022		0.05 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 4:33 PM View: Appendix III - Intrawell PLs

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)	
2/9/2022		0.053 (J)
8/30/2022		0.11

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 4:33 PM View: Appendix III - Intrawell PLs

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	
2/8/2022		<0.1
8/30/2022		0.064 (J)

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/21/2022 4:33 PM View: Appendix III - Intrawell PLs

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	
2/8/2022		5.83
8/30/2022		5.39

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/21/2022 4:33 PM View: Appendix III - Intrawell PLs

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	
2/8/2022		5.16
8/30/2022		5.07

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/21/2022 4:33 PM View: Appendix III - Intrawell PLs

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	
2/9/2022		5.2
8/31/2022		5.23

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/21/2022 4:33 PM View: Appendix III - Intrawell PLs

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	
2/8/2022		5.1
8/30/2022		4.85

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/21/2022 4:33 PM View: Appendix III - Intrawell PLs

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	
2/8/2022		5.67
8/30/2022		5.52

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/21/2022 4:33 PM View: Appendix III - Intrawell PLs

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	
2/9/2022		4.82
8/30/2022		4.86

Prediction Limit

Constituent: pH (S.U.) Analysis Run 10/21/2022 4:33 PM View: Appendix III - Intrawell PLs

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	
2/8/2022		5.89
8/30/2022		5.82

FIGURE F.

Interwell Prediction Limits Appendix III - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/20/2022, 1:59 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-2R	0.16	n/a	8/31/2022	0.19	Yes	350	n/a	n/a	48.57	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-4R	0.16	n/a	8/30/2022	4.4	Yes	350	n/a	n/a	48.57	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-1R	37	n/a	8/30/2022	189	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-2R	37	n/a	8/31/2022	46.9	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-4R	37	n/a	8/30/2022	55.8	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-5R	37	n/a	8/30/2022	135	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	GWC-6R	37	n/a	8/30/2022	40.6	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-2R	12	n/a	8/31/2022	14.5	Yes	350	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-4R	12	n/a	8/30/2022	146	Yes	350	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	8/30/2022	994	Yes	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-2R	160	n/a	8/31/2022	280	Yes	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-5R	160	n/a	8/30/2022	939	Yes	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-6R	160	n/a	8/30/2022	174	Yes	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
TDS (mg/L)	GWC-1R	218.7	n/a	8/30/2022	1600	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-2R	218.7	n/a	8/31/2022	510	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-4R	218.7	n/a	8/30/2022	628	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-5R	218.7	n/a	8/30/2022	1570	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	GWC-6R	218.7	n/a	8/30/2022	400	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2

Interwell Prediction Limits Appendix III - All Results

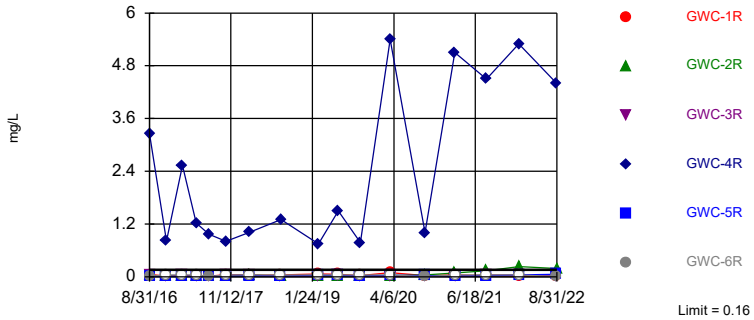
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/20/2022, 1:59 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-1R	0.16	n/a	8/30/2022	0.015J	No	350	n/a	n/a	48.57	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	**GWC-2R**	**0.16**	**n/a**	**8/31/2022**	**0.19**	**Yes**	**350**	**n/a**	**n/a**	**48.57**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	GWC-3R	0.16	n/a	8/30/2022	0.014J	No	350	n/a	n/a	48.57	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	**GWC-4R**	**0.16**	**n/a**	**8/30/2022**	**4.4**	**Yes**	**350**	**n/a**	**n/a**	**48.57**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	GWC-5R	0.16	n/a	8/30/2022	0.058	No	350	n/a	n/a	48.57	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-6R	0.16	n/a	8/30/2022	0.0092J	No	350	n/a	n/a	48.57	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GWC-1R**	**37**	**n/a**	**8/30/2022**	**189**	**Yes**	**350**	**n/a**	**n/a**	**0.8571**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-2R**	**37**	**n/a**	**8/31/2022**	**46.9**	**Yes**	**350**	**n/a**	**n/a**	**0.8571**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	GWC-3R	37	n/a	8/30/2022	17.5	No	350	n/a	n/a	0.8571	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GWC-4R**	**37**	**n/a**	**8/30/2022**	**55.8**	**Yes**	**350**	**n/a**	**n/a**	**0.8571**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-5R**	**37**	**n/a**	**8/30/2022**	**135**	**Yes**	**350**	**n/a**	**n/a**	**0.8571**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-6R**	**37**	**n/a**	**8/30/2022**	**40.6**	**Yes**	**350**	**n/a**	**n/a**	**0.8571**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	GWC-1R	12	n/a	8/30/2022	5.6	No	350	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	**GWC-2R**	**12**	**n/a**	**8/31/2022**	**14.5**	**Yes**	**350**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	GWC-3R	12	n/a	8/30/2022	3.1	No	350	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	**GWC-4R**	**12**	**n/a**	**8/30/2022**	**146**	**Yes**	**350**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	GWC-5R	12	n/a	8/30/2022	1.8	No	350	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6R	12	n/a	8/30/2022	7.5	No	350	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**	**8/30/2022**	**994**	**Yes**	**350**	**n/a**	**n/a**	**6**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GWC-2R**	**160**	**n/a**	**8/31/2022**	**280**	**Yes**	**350**	**n/a**	**n/a**	**6**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GWC-3R	160	n/a	8/30/2022	76	No	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-4R	160	n/a	8/30/2022	155	No	350	n/a	n/a	6	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GWC-5R**	**160**	**n/a**	**8/30/2022**	**939**	**Yes**	**350**	**n/a**	**n/a**	**6**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GWC-6R**	**160**	**n/a**	**8/30/2022**	**174**	**Yes**	**350**	**n/a**	**n/a**	**6**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GWC-1R**	**218.7**	**n/a**	**8/30/2022**	**1600**	**Yes**	**350**	**10.07**	**2.588**	**0.5714**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-2R**	**218.7**	**n/a**	**8/31/2022**	**510**	**Yes**	**350**	**10.07**	**2.588**	**0.5714**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	GWC-3R	218.7	n/a	8/30/2022	150	No	350	10.07	2.588	0.5714	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	**GWC-4R**	**218.7**	**n/a**	**8/30/2022**	**628**	**Yes**	**350**	**10.07**	**2.588**	**0.5714**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-5R**	**218.7**	**n/a**	**8/30/2022**	**1570**	**Yes**	**350**	**10.07**	**2.588**	**0.5714**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-6R**	**218.7**	**n/a**	**8/30/2022**	**400**	**Yes**	**350**	**10.07**	**2.588**	**0.5714**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.
Exceeds Limit: GWC-2R, GWC-4R

Prediction Limit

Interwell Non-parametric



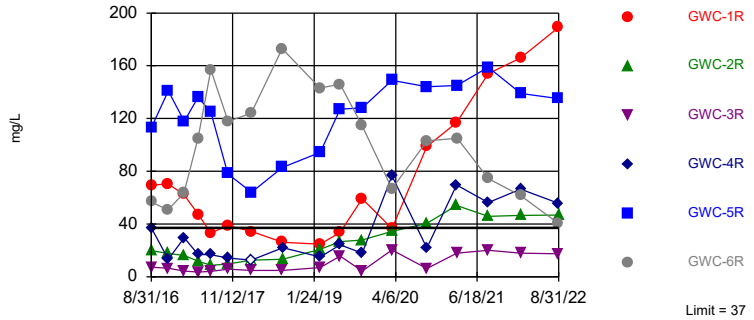
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 350 background values. 48.57% NDs. Annual per-constituent alpha = 0.0005902. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 6 points to limit.

Constituent: Boron Analysis Run 10/20/2022 1:50 AM View: Appendix III - Interwell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.
Exceeds Limit: GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R

Prediction Limit

Interwell Non-parametric



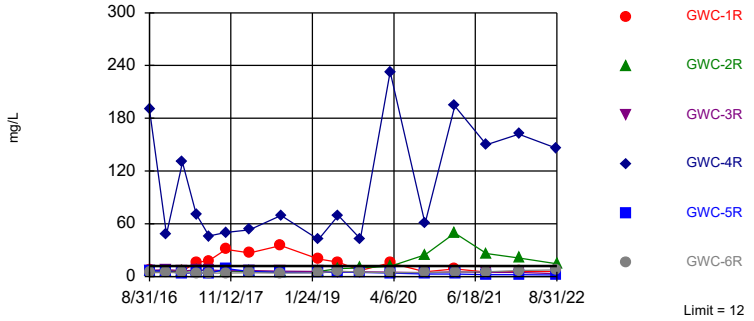
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 350 background values. 0.8571% NDs. Annual per-constituent alpha = 0.0005902. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 6 points to limit.

Constituent: Calcium Analysis Run 10/20/2022 1:50 AM View: Appendix III - Interwell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Exceeds Limit: GWC-2R, GWC-4R

Prediction Limit

Interwell Non-parametric



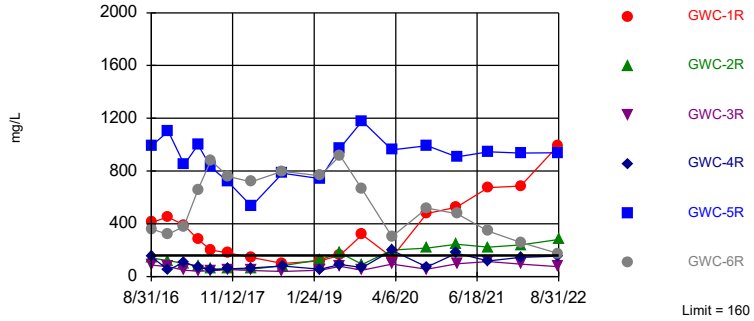
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 350 background values. Annual per-constituent alpha = 0.0005902. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 6 points to limit.

Constituent: Chloride Analysis Run 10/20/2022 1:50 AM View: Appendix III - Interwell PLs
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Exceeds Limit: GWC-1R, GWC-2R, GWC-5R, GWC-6R

Prediction Limit

Interwell Non-parametric



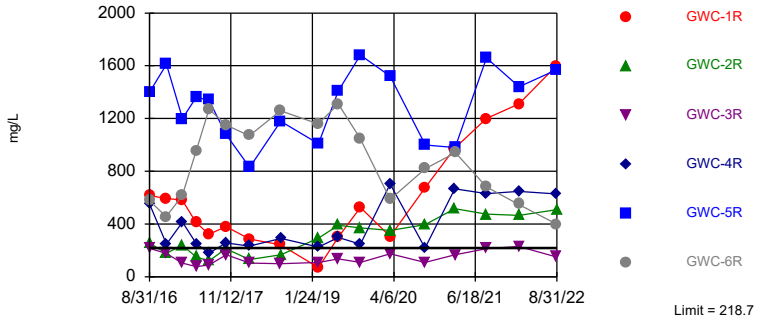
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 350 background values. 6% NDs. Annual per-constituent alpha = 0.0005902. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 6 points to limit.

Constituent: Sulfate Analysis Run 10/20/2022 1:51 AM View: Appendix III - Interwell PLs
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=10.07, Std. Dev.=2.588, n=350, 0.5714% NDs. Normality test was disabled. 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 10/20/2022 1:56 AM View: Appendix III - Parametric Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)
6/1/2016	<0.04	<0.04	<0.04						
6/2/2016				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
6/6/2016									
6/7/2016									
7/25/2016		<0.04	<0.04	<0.04					
7/26/2016	0.0055 (J)				<0.04	0.0052 (J)	0.0047 (J)	0.0177 (J)	0.0097 (J)
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	<0.04		<0.04						
9/14/2016		<0.04			0.01 (J)	0.0071 (J)	<0.04		
9/15/2016								0.0214 (J)	0.0102 (J)
9/16/2016									
9/19/2016				<0.04					
11/1/2016	0.0086 (J)	<0.04		<0.04					<0.04
11/2/2016						<0.04	<0.04	<0.04	
11/3/2016									
11/4/2016			<0.04		<0.04				
11/14/2016									
11/28/2016									
11/29/2016									
11/30/2016									
12/1/2016									
12/15/2016									
1/10/2017								0.0198 (J)	
1/11/2017	0.0074 (J)	<0.04							<0.04
1/12/2017					<0.04	0.0076 (J)			
1/13/2017							<0.04		
1/16/2017			<0.04	<0.04					
2/21/2017				<0.04					
2/22/2017									
2/23/2017									
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						0.0061 (J)	<0.04		
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 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)
6/29/2017							<0.04		
6/30/2017				<0.04				0.0173 (J)	
7/11/2017									
7/17/2017									
7/18/2017									
10/3/2017	0.0072 (J)		0.0071 (J)		<0.04	0.0094 (J)			
10/4/2017		<0.04		<0.04					<0.04
10/5/2017							<0.04	0.0173 (J)	
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
10/17/2017									
10/18/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
2/21/2018									
4/2/2018									
4/3/2018									
6/5/2018	0.0052 (J)								
6/6/2018			<0.04			0.0098 (J)			
6/7/2018					<0.04		0.0045 (J)		0.004 (J)
6/8/2018		<0.04						0.013 (J)	
6/11/2018				0.014 (J)					
6/28/2018									
8/6/2018									
8/7/2018									
8/8/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					0.0057 (J)	0.01 (J)	0.005 (J)		
10/1/2018	0.021 (J)	<0.04	0.0049 (J)					0.015 (J)	<0.04
10/2/2018				<0.04					
2/25/2019									
2/26/2019									
3/26/2019									
3/27/2019									
3/28/2019	0.005 (J)		<0.04						
3/29/2019								0.014 (J)	
4/1/2019		<0.04		<0.04					<0.04
4/2/2019									
4/3/2019					0.0044 (J)	0.0076 (J)	0.0055 (J)		
6/12/2019									
6/13/2019									
9/24/2019	0.0064 (J)		0.0055 (J)		0.0049 (J)	0.01 (J)			
9/25/2019		<0.04		<0.04			<0.04	0.018 (J)	0.0054 (J)
9/26/2019									
10/8/2019									

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)
10/9/2019									
10/10/2019									
3/17/2020									
3/18/2020			0.0087 (J)					0.02 (J)	
3/19/2020	0.0085 (J)	0.0053 (J)		0.0052 (J)					0.0073 (J)
3/24/2020					0.0068 (J)	0.011 (J)			
3/25/2020							0.011 (J)		
9/22/2020					0.0053 (J)	0.0079 (J)	<0.04		
9/23/2020	<0.04	0.0073 (J)	<0.04						0.012 (J)
9/24/2020				0.0075 (J)					
9/25/2020								0.02 (J)	
3/1/2021				<0.04					
3/2/2021					0.011 (J)	0.0068 (J)		0.017 (J)	
3/3/2021	<0.04	<0.04	<0.04				0.0056 (J)		<0.04
3/4/2021									
8/18/2021									
8/19/2021	<0.04		<0.04	<0.04				0.018 (J)	<0.04
8/20/2021									
8/26/2021					<0.04	0.009 (J)	<0.04		
8/27/2021		<0.04							
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	<0.04	<0.04	<0.04						0.01 (J)
2/10/2022					<0.04	0.011 (J)		0.02 (J)	
2/11/2022				<0.04			<0.04		
8/30/2022	<0.04				<0.04	0.0098 (J)			
8/31/2022		<0.04	<0.04	<0.04			<0.04	0.015 (J)	<0.04

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
6/1/2016									
6/2/2016									
6/6/2016	<0.04	<0.04							
6/7/2016			<0.04	<0.04	<0.04				
7/25/2016									
7/26/2016									
7/27/2016	<0.04	0.0059 (J)	<0.04		0.008 (J)				
7/28/2016				<0.04					
8/30/2016						0.0166 (J)			
8/31/2016							0.0305 (J)	0.0315 (J)	0.0315 (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	<0.04	0.0082 (J)		<0.04	0.0077 (J)				
11/4/2016									
11/14/2016						0.0166 (J)			
11/28/2016							0.0206 (J)	0.0095 (J)	
11/29/2016									
11/30/2016									0.0089 (J)
12/1/2016									
12/15/2016									
1/10/2017									
1/11/2017	<0.04	0.0096 (J)			0.0092 (J)				
1/12/2017									
1/13/2017			<0.04	<0.04					
1/16/2017									
2/21/2017									
2/22/2017							0.0192 (J)	<0.04	
2/23/2017									<0.04
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	<0.04	0.0091 (J)	<0.04	<0.04					
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017					<0.04				
5/8/2017						0.0141 (J)		0.0084 (J)	
5/9/2017									0.0077 (J)
5/10/2017							0.0179 (J)		
5/26/2017									
6/27/2017									
6/28/2017	<0.04	0.0079 (J)							

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
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							0.0169 (J)		0.0073 (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							0.0168 (J)		
10/18/2017									<0.04
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								<0.04	
2/20/2018							<0.04		
2/21/2018									0.0399 (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)
8/8/2018							0.017 (J)		
9/19/2018						0.012 (J)			
9/24/2018									
9/25/2018	0.0046 (J)	0.007 (J)	<0.04	0.0054 (J)	0.0096 (J)				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								<0.04	
2/26/2019							0.017 (J)		0.0053 (J)
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	<0.04	0.0053 (J)	<0.04						
6/12/2019							0.013 (J)	<0.04	
6/13/2019									<0.04
9/24/2019				0.018 (J)					
9/25/2019			<0.04		0.0081 (J)				
9/26/2019	0.0062 (J)	0.0072 (J)							
10/8/2019						0.012 (J)		<0.04	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
10/9/2019							0.018 (J)		
10/10/2019									0.0061 (J)
3/17/2020						0.023 (J)		0.0051 (J)	0.0099 (J)
3/18/2020							0.026 (J)		
3/19/2020									
3/24/2020	0.0054 (J)	0.01 (J)	<0.04	0.016 (J)	0.0092 (J)				
3/25/2020									
9/22/2020						0.0076 (J)	0.046 (J)	0.0079 (J)	0.0066 (J)
9/23/2020	0.021 (J)	0.006 (J)			0.0066 (J)				
9/24/2020			0.0094 (J)	0.013 (J)					
9/25/2020									
3/1/2021						0.013 (J)	0.087		
3/2/2021								<0.04	0.0071 (J)
3/3/2021	<0.04	0.0094 (J)	<0.04		0.01 (J)				
3/4/2021				0.0079 (J)					
8/18/2021							0.14		<0.04
8/19/2021						0.011 (J)			
8/20/2021								<0.04	
8/26/2021		<0.04							
8/27/2021	<0.04		<0.04		0.011 (J)				
9/1/2021				<0.04					
9/3/2021									
2/8/2022						0.015 (J)		<0.04	<0.04
2/9/2022	<0.04	<0.04	<0.04	<0.04	0.0098 (J)		0.23		
2/10/2022									
2/11/2022									
8/30/2022	<0.04	0.014 (J)		0.012 (J)	0.013 (J)			<0.04	0.014 (J)
8/31/2022			<0.04			0.0091 (J)	0.19		

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	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	0.0553 (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							
11/29/2016	0.0149 (J)	<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							
2/23/2017	0.0082 (J)	<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	0.0097 (J)						
5/10/2017		<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 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	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	0.0123 (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	0.0513			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				1.01		<0.04	
2/21/2018	0.0378 (J)		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	0.043		0.012 (J)			0.024 (J)	0.12
8/8/2018				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	0.062		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				1.5			
6/13/2019	0.057	<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 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	0.029 (J)		0.013 (J)			0.017 (J)	0.079
10/10/2019				0.78			
3/17/2020	0.092 (J)	<0.04					
3/18/2020			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	0.025 (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	0.046			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	0.029 (J)	<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
2/8/2022	0.021 (J)	<0.04		5.3		0.13	0.074
2/9/2022			0.043		<0.04		
2/10/2022							
2/11/2022							
8/30/2022	0.015 (J)	0.0092 (J)	0.058	4.4	<0.04		
8/31/2022						0.14	0.062

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)
6/1/2016	12	21	2.5						
6/2/2016				1.3	2.4	33	8.8	1.3	28
6/6/2016									
6/7/2016									
7/25/2016		20.3	2.16	1.17					
7/26/2016	11				2.12	32.3	7.69	1.24	24.5
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	11.8		2.21						
9/14/2016		19.7			2.18	31	8.49		
9/15/2016								1.17	27
9/16/2016									
9/19/2016				1.05					
11/1/2016	11	18.4		1.14					25.6
11/2/2016						30.9	7.83	1.23	
11/3/2016									
11/4/2016			2.67		2.17 (J)				
11/14/2016									
11/28/2016									
11/29/2016									
11/30/2016									
12/1/2016									
12/15/2016									
1/10/2017								1.24	
1/11/2017	11.2	20.3							27.5
1/12/2017					2.37	35.7			
1/13/2017							8.08		
1/16/2017			2.45	1.23					
2/21/2017				1.25					
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017		18.6							
3/2/2017	11		2.57						27.5
3/3/2017									
3/6/2017							8.64		
3/7/2017					2.34	32.7			
3/8/2017								1.21	
4/26/2017		25.6		1.03				1.14	30.4
4/27/2017	11.1		2.38						
4/28/2017									
5/1/2017						37	13.4		
5/2/2017					2.17				
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017	13.8		2.36		2.13	36.5			
6/28/2017		23.9							29.8

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)
6/29/2017							8.81		
6/30/2017				1.13				1.24	
7/11/2017									
7/17/2017									
7/18/2017									
10/3/2017	14		2.21		2.15	30.9			
10/4/2017		22.1		1.09					29.7
10/5/2017							9.29	1.11	
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
10/17/2017									
10/18/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
2/21/2018									
4/2/2018									
4/3/2018									
6/5/2018	15.2 (J)								
6/6/2018			2.3			26.2			
6/7/2018					2.3		8.2		29.1
6/8/2018		21.9 (J)						1.1	
6/11/2018				1.1					
6/28/2018									
8/6/2018									
8/7/2018									
8/8/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					2.3	25.8	9.5 (J)		
10/1/2018	15.1	19.7	1.8					0.99	26.9
10/2/2018				1.1					
2/25/2019									
2/26/2019									
3/26/2019									
3/27/2019									
3/28/2019	13.3 (J)		2.2						
3/29/2019								1.1	
4/1/2019		20.4 (J)		1.3					30.1
4/2/2019									
4/3/2019					2.8	24.7 (J)	8.4		
6/12/2019									
6/13/2019									
9/24/2019	15.8		2.3		2.5	25.8			
9/25/2019		22.4		1.1			9.5	1.1	29.5
9/26/2019									
10/8/2019									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)
10/9/2019									
10/10/2019									
3/17/2020									
3/18/2020			2.1					1.1	
3/19/2020	15	21.9		1.2					31.5
3/24/2020					2.5	26.1			
3/25/2020							10.5		
9/22/2020					2.6	27.2	9.6		
9/23/2020	14.1	23.6	1.8						28.6
9/24/2020				1.1					
9/25/2020								1.3	
3/1/2021				1.2					
3/2/2021					2.6	1.6		1.2	
3/3/2021	14.1	20.6	1.8				7.7		29.8
3/4/2021									
8/18/2021									
8/19/2021	14.2		2	1.2				1.2	28.1
8/20/2021									
8/26/2021					2.5	25.2	7.6		
8/27/2021		24.7							
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	14.9	23.7	2.1						30.3
2/10/2022					2.5	24.8		1.3	
2/11/2022				1.5			7.5		
8/30/2022	14.9				2.5	24.8			
8/31/2022		23.5	1.9	1.3			8.9	1.3	28.7

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
6/1/2016									
6/2/2016									
6/6/2016	6.2	1.4							
6/7/2016			2.3	3.7	2.2				
7/25/2016									
7/26/2016									
7/27/2016	4.73	1.19	2.08		2				
7/28/2016				3.15					
8/30/2016						20.9			
8/31/2016							19.9	9.31	7.23
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		1.5			1.97				
9/19/2016	4.76		1.97	3.17					
11/1/2016									
11/2/2016			2.13						
11/3/2016	5.25	1.31		3.4	1.99				
11/4/2016									
11/14/2016						18.6			
11/28/2016							17.7 (B)	9.47 (B)	
11/29/2016									
11/30/2016									6.43 (B)
12/1/2016									
12/15/2016									
1/10/2017									
1/11/2017	4.74	1.25			2.28				
1/12/2017									
1/13/2017			2.45	4.98					
1/16/2017									
2/21/2017									
2/22/2017							16.2	10.4	
2/23/2017									4.25
2/24/2017						16.1			
3/1/2017	5.37	1.26							
3/2/2017					2.15				
3/3/2017									
3/6/2017			2.48	6.28					
3/7/2017									
3/8/2017									
4/26/2017	4.28	1.05	2.3	6.65					
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017					1.95				
5/8/2017						14.6		14.2	
5/9/2017									3.56
5/10/2017							11.8		
5/26/2017									
6/27/2017									
6/28/2017	4.95	1.06							

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
6/29/2017			2.54	6.04	2.02				
6/30/2017									
7/11/2017						14.3			
7/17/2017								14.1	
7/18/2017							8.69		4.16
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							9.77		
10/18/2017									5.67
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								<25	
2/20/2018							<25		
2/21/2018									4.76
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
8/8/2018							13.4 (J)		
9/19/2018						11.1 (J)			
9/24/2018									
9/25/2018	4.6	1	2.3	10.4 (J)	2.1				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								12.7 (J)	
2/26/2019							20.9 (J)		7.1
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	5.3	1.2	2.9						
6/12/2019							26.6	18.9	
6/13/2019									15.7
9/24/2019				7.7					
9/25/2019			2.4		2.6				
9/26/2019	4.9	1.1							
10/8/2019						9.7		28.3	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
10/9/2019							27.8		
10/10/2019									4.3
3/17/2020						14.8		24.3	20.3
3/18/2020							34.5		
3/19/2020									
3/24/2020	5.3	1	2.6	6	2.7				
3/25/2020									
9/22/2020						10.1	40.5	31	6.2
9/23/2020	5.2	0.91 (J)			2.6				
9/24/2020			2.6	7.8					
9/25/2020									
3/1/2021						10.3	54.1		
3/2/2021								34.2	17.9
3/3/2021	5.2	0.96 (J)	2.4		2.5				
3/4/2021				8.7					
8/18/2021							45.8		20.2
8/19/2021						9.6			
8/20/2021								26.5	
8/26/2021		0.98 (J)							
8/27/2021	5.1		2.4		2.7				
9/1/2021				9.5					
9/3/2021									
2/8/2022						9.4		25.6	17.9
2/9/2022	5.1	0.87 (J)	2.3	9.8	2.8		46.6		
2/10/2022									
2/11/2022									
8/30/2022	5.7	0.77 (J)		7.3	3			23.5	17.5
8/31/2022			2.4			9.6	46.9		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	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	69.4						
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							
11/29/2016	70.6 (B)	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							
2/23/2017	62.4	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	47.4						
5/10/2017		105	136	17			
5/26/2017					26.2		
6/27/2017							
6/28/2017					26.1		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	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	33.2	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	38.7			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		1.71	
2/21/2018	34.3		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	26.2		83			1.2	6.3
8/8/2018				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	24.7 (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				24.2			
6/13/2019	33.8	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 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	59.1		128			2.4	4.9
10/10/2019				18			
3/17/2020	36.7	66.8					
3/18/2020			149	76.6			
3/19/2020					27.4		
3/24/2020							4.8
3/25/2020						2.7	
9/22/2020	98.8			21.8			
9/23/2020		103	144		26.3		
9/24/2020						3.7	4.4
9/25/2020							
3/1/2021	117			69.5			
3/2/2021			145				
3/3/2021		105			25.6		
3/4/2021						8.2	4.6
8/18/2021	154	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
2/8/2022	166	61.5		66.5		15.2	6
2/9/2022			139		23.4		
2/10/2022							
2/11/2022							
8/30/2022	189	40.6	135	55.8	25.4		
8/31/2022						16.3	6.2

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)
6/1/2016	1.3	1.3	1.6						
6/2/2016				1.9	4.3	7.2	3.7	4.1	1.4
6/6/2016									
6/7/2016									
7/25/2016		1.3	1.4	1.7					
7/26/2016	1.2				4.4	6.6	3.6	4	1.6
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	1.1		1.3						
9/14/2016		1.3			3.8	6.6	3.4		
9/15/2016								4.2	1.5
9/16/2016									
9/19/2016				1.6					
11/1/2016	1.3	1.4		1.8					1.7
11/2/2016						7.6	4.5	4.9	
11/3/2016									
11/4/2016			1.6		4.8				
11/14/2016									
11/28/2016									
11/29/2016									
11/30/2016									
12/1/2016									
12/15/2016									
1/10/2017								4.1	
1/11/2017	1.1	1.1							1.2
1/12/2017					3.8	6.8			
1/13/2017							4.2		
1/16/2017			1.4	1.7					
2/21/2017				1.7					
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017		1.1							
3/2/2017	1		1.3						1.2
3/3/2017									
3/6/2017							3.6		
3/7/2017					4.5	6.8			
3/8/2017								4.2	
4/26/2017		1.1		1.7				4.1	1.2
4/27/2017	1		1.3						
4/28/2017									
5/1/2017						7.2	4.3		
5/2/2017					4.6				
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017	1.1		1.4		4.3	7			
6/28/2017		1.2							1.3

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)
6/29/2017							4.2		
6/30/2017				1.8				3.7	
7/11/2017									
7/17/2017									
7/18/2017									
10/3/2017	1.1		1.7		4.2	6.5			
10/4/2017		1.2		1.8					1.5
10/5/2017							4.7	3.8	
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
10/17/2017									
10/18/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
2/21/2018									
4/2/2018									
4/3/2018									
6/5/2018	1.1								
6/6/2018			1.4			4.7			
6/7/2018					4.5		4.4		1.2
6/8/2018		1.2						3.4	
6/11/2018				2					
6/28/2018									
8/6/2018									
8/7/2018									
8/8/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					5.1	4.8	4.8		
10/1/2018	1.1	1.2	1.4					3.8	1.5
10/2/2018				1.8					
2/25/2019									
2/26/2019									
3/26/2019									
3/27/2019									
3/28/2019	1.4		1.5						
3/29/2019								4.2	
4/1/2019		1.1		1.7					1.2
4/2/2019									
4/3/2019					4.2	4	4.3		
6/12/2019									
6/13/2019									
9/24/2019	1.1		1.3		4.5	3.7			
9/25/2019		1.1		1.6			4.5	4.8	1.1
9/26/2019									
10/8/2019									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)
10/9/2019									
10/10/2019									
3/17/2020									
3/18/2020			1.4					5.2	
3/19/2020	1.1	1.1		1.8					1.2
3/24/2020					4.3	3.5			
3/25/2020							3.9		
9/22/2020					4.2	3.6	4.5		
9/23/2020	0.99 (J)	1	1.2						1.1
9/24/2020				1.5					
9/25/2020								5.3	
3/1/2021				1.6					
3/2/2021					4.3	3.2		4.9	
3/3/2021	0.96 (J)	0.99 (J)	1.2				4.1		1.1
3/4/2021									
8/18/2021									
8/19/2021	1.1		1.3	1.6				5	1.1
8/20/2021									
8/26/2021					4.3	3.4	4.4		
8/27/2021		1.1							
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	1	1.1	1.3						1.1
2/10/2022					4.4	3.2		4.7	
2/11/2022				2.1			4.1		
8/30/2022	1.3				4.4	3.5			
8/31/2022		1.3	1.5	1.8			4.4	4.6	1.3

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
6/1/2016									
6/2/2016									
6/6/2016	6.8	6.4							
6/7/2016			1.9	2.8	4.5				
7/25/2016									
7/26/2016									
7/27/2016	6.7	6.2	1.9		4.5				
7/28/2016				2.6					
8/30/2016						5.2			
8/31/2016							6.3	4	6.7
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		6.1			4.5				
9/19/2016	7		1.9	2.4					
11/1/2016									
11/2/2016			2.6						
11/3/2016	7.5	7.4		2.9	5.4				
11/4/2016									
11/14/2016						6.4			
11/28/2016							6.7	4.2	
11/29/2016									
11/30/2016									7.8
12/1/2016									
12/15/2016									
1/10/2017									
1/11/2017	6.5	6.1			4.7				
1/12/2017									
1/13/2017			2.3	2.5					
1/16/2017									
2/21/2017									
2/22/2017							5.7	3.7	
2/23/2017									6.5
2/24/2017						5.5			
3/1/2017	6.9	6							
3/2/2017					4.8				
3/3/2017									
3/6/2017			1.9	2.1					
3/7/2017									
3/8/2017									
4/26/2017	7	6.5	2	2.1					
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017					4.6				
5/8/2017						5.8		4.2	
5/9/2017									7.2
5/10/2017							7.1		
5/26/2017									
6/27/2017									
6/28/2017	7	6.4							

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
6/29/2017			2.6	2.8	4.5				
6/30/2017									
7/11/2017						5.8			
7/17/2017								3.8	
7/18/2017							6		7.7
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							6.1		
10/18/2017									6.5
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								4.3	
2/20/2018							5.8		
2/21/2018									6.7
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
8/8/2018							4.7		
9/19/2018						4			
9/24/2018									
9/25/2018	7.9	7.8	3.6	2.2	5.6				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								4.1	
2/26/2019							5.7		5.7
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	6.9	6.3	3.1						
6/12/2019							9.1	4.7	
6/13/2019									5
9/24/2019				3.1					
9/25/2019			2.8		5.7				
9/26/2019	7	7.1							
10/8/2019						4.4		5.1	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
10/9/2019							9.8		
10/10/2019									5.3
3/17/2020						4.1		4.8	5.2
3/18/2020							11.7		
3/19/2020									
3/24/2020	7	6.8	2.7	2.8	5				
3/25/2020									
9/22/2020						4.2	24.7	4.2	4.2
9/23/2020	7.2	7.2			6.6				
9/24/2020			2.7	2					
9/25/2020									
3/1/2021						3.7	49.6		
3/2/2021								4.1	5.5
3/3/2021	7	7.2	2.7		7.1				
3/4/2021				1.8					
8/18/2021							26.2		4.6
8/19/2021						3.5			
8/20/2021								5.2	
8/26/2021		7.3							
8/27/2021	7.4		2.8		8.5				
9/1/2021				1.8					
9/3/2021									
2/8/2022						3.2		5.7	4.5
2/9/2022	7.5	7	2.8	1.7	10.9		21.2		
2/10/2022									
2/11/2022									
8/30/2022	7.9	7		2.4	12			6.3	3.1
8/31/2022			2.9			3.5	14.5		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	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	7.6						
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							
11/29/2016	5.8	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							
2/23/2017	6.2	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	16						
5/10/2017		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 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	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	18	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	31			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				53.1		2	
2/21/2018	27		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	35.4		4.7			1.2	4.3
8/8/2018				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	20		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				69.5			
6/13/2019	16.4	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 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	6.9		4.5			2.1	5.1
10/10/2019				42.8			
3/17/2020	15.5	4.4					
3/18/2020			3.8	233			
3/19/2020					0.97 (J)		
3/24/2020							4.7
3/25/2020						1.9	
9/22/2020	5.5			60.2			
9/23/2020		4.7	3		0.88 (J)		
9/24/2020						2.7	5
9/25/2020							
3/1/2021	8.6			194			
3/2/2021			2.9				
3/3/2021		5			0.86 (J)		
3/4/2021						4.9	4.9
8/18/2021	5.2	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
2/8/2022	5.6	6.9		162		7.4	6.2
2/9/2022			2		1 (J)		
2/10/2022							
2/11/2022							
8/30/2022	5.6	7.5	1.8	146	1.2		
8/31/2022						6.7	6.3

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)
6/1/2016	5	12	4.2						
6/2/2016				1.3	1.9	20	8	6.6	5.8
6/6/2016									
6/7/2016									
7/25/2016		8.4	3.7	1.2					
7/26/2016	5.4				1.8	20	7.7	6.1	6.7
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	2.9		5.2						
9/14/2016		8.6			1.8	19	7.5		
9/15/2016								6.1	6
9/16/2016									
9/19/2016				1.2					
11/1/2016	3.9	8.9		1.3					4.9
11/2/2016						20	8.2	6.3	
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	3.7	8.6							4.5
1/12/2017					1.9	19			
1/13/2017							8.1		
1/16/2017			7.9	<1					
2/21/2017				1.4					
2/22/2017									
2/23/2017									
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						20	8.4		
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 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)
6/29/2017							9.2		
6/30/2017				<1				6.5	
7/11/2017									
7/17/2017									
7/18/2017									
10/3/2017	6.6		5.9		2.3	16			
10/4/2017		12		1.4					6.2
10/5/2017							9.6	7.9	
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
10/17/2017									
10/18/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
2/21/2018									
4/2/2018									
4/3/2018									
6/5/2018	6.4								
6/6/2018			4.4			8.3			
6/7/2018					2		8.5		6.7
6/8/2018		9.6						6.4	
6/11/2018				1.1					
6/28/2018									
8/6/2018									
8/7/2018									
8/8/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					2.3	7.9	10.2		
10/1/2018	5.6	9.1	4					6.8	7.1
10/2/2018				1					
2/25/2019									
2/26/2019									
3/26/2019									
3/27/2019									
3/28/2019	8		4.3						
3/29/2019								7.3	
4/1/2019		8.5		0.96 (J)					7.2
4/2/2019									
4/3/2019					2.1	7	8.5		
6/12/2019									
6/13/2019									
9/24/2019	5.3		4.3		2.4	5.5			
9/25/2019		13.8		0.81 (J)			8.5	6.6	7
9/26/2019									
10/8/2019									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)
10/9/2019									
10/10/2019									
3/17/2020									
3/18/2020			5.3					8.1	
3/19/2020	10	12.9		1.6					9
3/24/2020					2.1	5.9			
3/25/2020							8.8		
9/22/2020					2.1	5.5	8.2		
9/23/2020	8.1	16.8	3.4						6.9
9/24/2020				0.69 (J)					
9/25/2020								6.1	
3/1/2021				0.88 (J)					
3/2/2021					2.3	2.6		6	
3/3/2021	9	9.6	4.4				7.8		7
3/4/2021									
8/18/2021									
8/19/2021	8.9		4.9	1				6.7	7.5
8/20/2021									
8/26/2021					2.4	6	8.5		
8/27/2021		18.2							
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	9.3	16	5.1						7.2
2/10/2022					2.4	4.9		6.2	
2/11/2022				2.8			7.7		
8/30/2022	10.2				2.4	5.7			
8/31/2022		13.9	4.8	1.1			8	5.8	6.9

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
6/1/2016									
6/2/2016									
6/6/2016	1.2	1.8							
6/7/2016			<1	5.2	4.4				
7/25/2016									
7/26/2016									
7/27/2016	1.7	1.9	0.08 (J)		4.7				
7/28/2016				5.1					
8/30/2016						160			
8/31/2016							140	29	87
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		1.7			4.8				
9/19/2016	1.8		0.08 (J)	4.8					
11/1/2016									
11/2/2016			0.1 (J)						
11/3/2016	0.69 (J)	1.9		5	5.3				
11/4/2016									
11/14/2016						150			
11/28/2016							120	36	
11/29/2016									
11/30/2016									76
12/1/2016									
12/15/2016									
1/10/2017									
1/11/2017	<1	1.7			5.2				
1/12/2017									
1/13/2017			<1	4.3					
1/16/2017									
2/21/2017									
2/22/2017							100	43	
2/23/2017									47
2/24/2017						120			
3/1/2017	1.8	<1							
3/2/2017					5				
3/3/2017									
3/6/2017			<1	4.5					
3/7/2017									
3/8/2017									
4/26/2017	1.6	1.9	<1	4.9					
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017					5				
5/8/2017						120		60	
5/9/2017									41
5/10/2017							80		
5/26/2017									
6/27/2017									
6/28/2017	<1	<1							

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
6/29/2017			<1	5.5	5.2				
6/30/2017									
7/11/2017						110			
7/17/2017								63	
7/18/2017							57		44
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							59		
10/18/2017									53
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								64.6	
2/20/2018							55.9		
2/21/2018									46.7
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
8/8/2018							81.1		
9/19/2018						75			
9/24/2018									
9/25/2018	1	1.5	0.13 (J)	7	6.1				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								42.1	
2/26/2019							129		49.3
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	0.82 (J)	1.3	0.12 (J)						
6/12/2019							180	83.4	
6/13/2019									77.1
9/24/2019				1					
9/25/2019			<1		5.5				
9/26/2019	0.64 (J)	1							
10/8/2019						52.3		128	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
10/9/2019							91.2		
10/10/2019									48
3/17/2020						71.6		98.6	95.2
3/18/2020							200		
3/19/2020									
3/24/2020	<1	0.99 (J)	<1	3	5.4				
3/25/2020									
9/22/2020						51.5	216	145	55.1
9/23/2020	0.53 (J)	1.1			5.1				
9/24/2020			<1	3.6					
9/25/2020									
3/1/2021						51.6	244		
3/2/2021								156	95.5
3/3/2021	<1	1	<1		5.2				
3/4/2021				4.5					
8/18/2021							223		114
8/19/2021						52.6			
8/20/2021								121	
8/26/2021		1.2							
8/27/2021	0.59 (J)		<1		5.3				
9/1/2021				5					
9/3/2021									
2/8/2022						50.9		107	93.5
2/9/2022	0.51 (J)	1.1	<1	3.9	4.8		241		
2/10/2022									
2/11/2022									
8/30/2022	0.78 (J)	1.3		3.2	4.7			101	76
8/31/2022			<1			48	280		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	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	410						
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							
11/29/2016	450	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							
2/23/2017	390	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	280						
5/10/2017		660	1000	70			
5/26/2017					12		
6/27/2017							
6/28/2017					11		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	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	200	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	180			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				64.6		20.6	
2/21/2018	146		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	100		784			20.7	40.5
8/8/2018				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	118		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				92.8			
6/13/2019	163	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 10/20/2022 1:59 AM View: Appendix III - Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	318		1180			15	27.9
10/10/2019				68.7			
3/17/2020	145	303					
3/18/2020			960	199			
3/19/2020					12.4		
3/24/2020							25.2
3/25/2020						14.3	
9/22/2020	478			72.1			
9/23/2020		518	992		11.8		
9/24/2020						11.7	22.9
9/25/2020							
3/1/2021	525			177			
3/2/2021			906				
3/3/2021		476			10.6		
3/4/2021						12	21.5
8/18/2021	675	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
2/8/2022	687	260		146		14.6	17.9
2/9/2022			937		18		
2/10/2022							
2/11/2022							
8/30/2022	994	174	939	155	20.1		
8/31/2022						10.9	17.9

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Parametric Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)
6/1/2016	120	150	54						
6/2/2016				36	66	160	96	46	130
6/6/2016									
6/7/2016									
7/25/2016		135	48	50					
7/26/2016	94				78	177	92	54	141
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	105		67						
9/14/2016		127			73	187	102		
9/15/2016								54	153
9/16/2016									
9/19/2016				35					
11/1/2016	44	75		<25					92
11/2/2016						181	115	71	
11/3/2016									
11/4/2016			60		75				
11/14/2016									
11/28/2016									
11/29/2016									
11/30/2016									
12/1/2016									
12/15/2016									
1/10/2017								45	
1/11/2017	107	148							159
1/12/2017					86	202			
1/13/2017							67		
1/16/2017			65	47					
2/21/2017				<25					
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017		182							
3/2/2017	98		61						117
3/3/2017									
3/6/2017							159		
3/7/2017					108	257			
3/8/2017								178	
4/26/2017		92		55				52	181
4/27/2017	116		31						
4/28/2017									
5/1/2017						165	107		
5/2/2017					103				
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017	89		42		73	189			
6/28/2017		126							169

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Parametric Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)
6/29/2017							79		
6/30/2017				42				45	
7/11/2017									
7/17/2017									
7/18/2017									
10/3/2017	119		58		89	170			
10/4/2017		147		31					141
10/5/2017							95	40	
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
10/17/2017									
10/18/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
2/21/2018									
4/2/2018									
4/3/2018									
6/5/2018	127								
6/6/2018			96			151			
6/7/2018					142		90		95
6/8/2018		158						114	
6/11/2018				59					
6/28/2018									
8/6/2018									
8/7/2018									
8/8/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					86	144	116		
10/1/2018	117	138	60					50	165
10/2/2018				57					
2/25/2019									
2/26/2019									
3/26/2019									
3/27/2019									
3/28/2019	87		87						
3/29/2019								63	
4/1/2019		19 (J)		54					149
4/2/2019									
4/3/2019					83	142	111		
6/12/2019									
6/13/2019									
9/24/2019	124		54		79	129			
9/25/2019		159		51			117	64	157
9/26/2019									
10/8/2019									

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Parametric Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-3D (bg)
10/9/2019									
10/10/2019									
3/17/2020									
3/18/2020			35					57	
3/19/2020	116	148		47					146
3/24/2020					68	139			
3/25/2020							146		
9/22/2020					75	104	83		
9/23/2020	108	155	15						157
9/24/2020				51					
9/25/2020								54	
3/1/2021				23					
3/2/2021					67	52		67	
3/3/2021	99	111	39				80		137
3/4/2021									
8/18/2021									
8/19/2021	105		44	50				54	144
8/20/2021									
8/26/2021					86	123	93		
8/27/2021		155							
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	105	145	57						154
2/10/2022					77	127		56	
2/11/2022				66			102		
8/30/2022	116				86	148			
8/31/2022		137	46	33			92	51	141

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Parametric Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
6/1/2016									
6/2/2016									
6/6/2016	120	58							
6/7/2016			38	60	28				
7/25/2016									
7/26/2016									
7/27/2016	94	35	74		74				
7/28/2016				81					
8/30/2016						319			
8/31/2016							257	209	216
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		35			67				
9/19/2016	92		45	68					
11/1/2016									
11/2/2016			53						
11/3/2016	104	48		61	41				
11/4/2016									
11/14/2016						280			
11/28/2016							177	102	
11/29/2016									
11/30/2016									177 (B)
12/1/2016									
12/15/2016									
1/10/2017									
1/11/2017	133	95			104				
1/12/2017									
1/13/2017			46	76					
1/16/2017									
2/21/2017									
2/22/2017							240	164	
2/23/2017									105
2/24/2017						162			
3/1/2017	119	79							
3/2/2017					77				
3/3/2017									
3/6/2017			164	167					
3/7/2017									
3/8/2017									
4/26/2017	162	36	34	50					
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017					142				
5/8/2017						194		145	
5/9/2017									77
5/10/2017							149		
5/26/2017									
6/27/2017									
6/28/2017	98	45							

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Parametric Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
6/29/2017			68	94	53				
6/30/2017									
7/11/2017						193			
7/17/2017								185	
7/18/2017							122		89
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							214		
10/18/2017									166
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								173	
2/20/2018							131		
2/21/2018									105
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
8/8/2018							166		
9/19/2018						186			
9/24/2018									
9/25/2018	109	63	73	122	86				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								92	
2/26/2019							293		109
3/26/2019									
3/27/2019						170			
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019				134	72				
4/3/2019	89	63	57						
6/12/2019							391	226	
6/13/2019									136
9/24/2019				157					
9/25/2019			75		81				
9/26/2019	126	72							
10/8/2019						172		276	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Parametric Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
10/9/2019							372		
10/10/2019									109
3/17/2020						165		185	175
3/18/2020							351		
3/19/2020									
3/24/2020	91	59	76	117	71				
3/25/2020									
9/22/2020						141	394	281	110
9/23/2020	103	81			99				
9/24/2020			69	113					
9/25/2020									
3/1/2021						145	516		
3/2/2021								296 (D)	167
3/3/2021	95	37	53		57				
3/4/2021				110					
8/18/2021							474		214
8/19/2021						134			
8/20/2021								254	
8/26/2021		31							
8/27/2021	112		67		93				
9/1/2021				137					
9/3/2021									
2/8/2022						151		283	231
2/9/2022	103	60	72	131	81		466		
2/10/2022									
2/11/2022									
8/30/2022	100	52		122	81			244	150
8/31/2022			62			116	510		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Parametric Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	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	616						
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							
11/29/2016	594	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							
2/23/2017	581	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	410						
5/10/2017		955	1360	251			
5/26/2017					223		
6/27/2017							
6/28/2017					166		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Parametric Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	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	322	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	381			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				233		87	
2/21/2018	285		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	242		1180			89	103
8/8/2018				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	69		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				298			
6/13/2019	301	1310	1410				
9/24/2019					146		
9/25/2019							
9/26/2019							
10/8/2019		1050					

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 10/20/2022 1:59 AM View: Appendix III - Parametric Interwell PLs

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-5R	GWC-4R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	526		1680			119	98
10/10/2019				247			
3/17/2020	306	588					
3/18/2020			1520	703			
3/19/2020					148		
3/24/2020							84
3/25/2020						158	
9/22/2020	675			217			
9/23/2020		820	1000		161		
9/24/2020						170	77
9/25/2020							
3/1/2021	974			666			
3/2/2021			980				
3/3/2021		942			138		
3/4/2021						168	57
8/18/2021	1200	682	1660	630			
8/19/2021							
8/20/2021							
8/26/2021						249	
8/27/2021					150		
9/1/2021							
9/3/2021							88
2/8/2022	1310	549		648		248	93
2/9/2022			1440		156		
2/10/2022							
2/11/2022							
8/30/2022	1600	400	1570	628	153		
8/31/2022						242	92

FIGURE G.

Trend Test Summary (Prediction Limit Exceedances) - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/20/2022, 2:27 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-40 (bg)	-0.01529	-77	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	3.453	82	63	Yes	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-2R	6.93	90	63	Yes	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.1364	109	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.08039	-114	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.6514	86	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.09504	-93	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	0.9751	97	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.342	-95	-58	Yes	16	6.25	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.676	-100	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.2567	74	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-2R	1.896	67	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.5433	127	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18I (bg)	0.1027	78	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.1337	107	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.0435	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.326	66	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.4528	-84	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.7454	-124	-74	Yes	19	0	n/a	n/a	0.01	NP
pH (S.U.)	GWA-2 (bg)	-0.04438	-195	-161	Yes	32	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-18S (bg)	-0.05687	-138	-98	Yes	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-21I (bg)	0.1311	120	98	Yes	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-39 (bg)	-0.2106	-105	-74	Yes	19	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-47 (bg)	-0.0405	-71	-68	Yes	18	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-4I (bg)	-0.0501	-99	-98	Yes	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-5D (bg)	-0.07627	-102	-92	Yes	22	0	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-17S (bg)	0	100	87	Yes	21	71.43	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	17.26	87	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-2R	30.08	74	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.9733	121	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.631	-74	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.3364	89	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	1.016	86	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-8.899	-89	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-17.58	-107	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-2.862	-129	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.08795	115	74	Yes	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWA-2 (bg)	21.5	67	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-2R	60.19	82	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-39 (bg)	30.24	64	58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-47 (bg)	-14.82	-90	-58	Yes	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-5D (bg)	-12.99	-99	-74	Yes	19	0	n/a	n/a	0.01	NP

Trend Test Summary (Prediction Limit Exceedances) - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/20/2022, 2:27 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GWA-2 (bg)	0	23	63	No	17	64.71	n/a	n/a	0.01	NP
Boron (mg/L)	GWC-2R	0.01449	53	63	No	17	5.882	n/a	n/a	0.01	NP
Boron (mg/L)	GWC-4R	0.2837	34	63	No	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.000665	-40	-74	No	19	10.53	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	0.0001704	22	74	No	19	10.53	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-22	-74	No	19	78.95	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.000309	24	74	No	19	21.05	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.0008221	34	74	No	19	36.84	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-8	-74	No	19	73.68	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-9	-74	No	19	89.47	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	-0.0004731	-56	-74	No	19	57.89	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	-6	-74	No	19	78.95	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-19	-74	No	19	84.21	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.01331	56	58	No	16	6.25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	0	74	No	19	57.89	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-17	-74	No	19	89.47	n/a	n/a	0.01	NP
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01529**	**-77**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-47 (bg)	-0.0008357	-55	-58	No	16	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-4I (bg)	0	1	74	No	19	68.42	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0003037	31	74	No	19	10.53	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-25	-74	No	19	63.16	n/a	n/a	0.01	NP
Calcium (mg/L)	**GWA-2 (bg)**	**3.453**	**82**	**63**	**Yes**	**17**	**5.882**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GWC-1R	16.13	40	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GWC-2R**	**6.93**	**90**	**63**	**Yes**	**17**	**5.882**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GWC-4R	4.726	48	63	No	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-5R	4.933	50	63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-6R	-4.001	-15	-63	No	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-14S (bg)	0	-15	-74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-17S (bg)**	**0.1364**	**109**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-18I (bg)	0.04637	26	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-18S (bg)**	**-0.08039**	**-114**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1D (bg)**	**0.6514**	**86**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1I (bg)**	**-0.09504**	**-93**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-20S (bg)	0.03848	54	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-21I (bg)**	**0.9751**	**97**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-2I (bg)	0.08578	13	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0.0125	31	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	1.273	55	58	No	16	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.4525	59	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.5467	60	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-40 (bg)	-0.6546	-42	-58	No	16	6.25	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-47 (bg)**	**-1.342**	**-95**	**-58**	**Yes**	**16**	**6.25**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-4I (bg)	0.04736	10	74	No	19	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-5D (bg)**	**-1.676**	**-100**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-5I (bg)	0.06231	74	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**GWA-2 (bg)**	**0.2567**	**74**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GWC-2R**	**1.896**	**67**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GWC-4R	8.737	26	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1251	51	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-17S (bg)**	**0.5433**	**127**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-18I (bg)**	**0.1027**	**78**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-18S (bg)	0.1557	72	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	0	-37	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	-0.01802	-38	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-20S (bg)**	**0.1337**	**107**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-21I (bg)	-0.1148	-56	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.02221	-34	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	0	-8	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.768	51	58	No	16	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.0435**	**-80**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-3I (bg)	-0.02929	-65	-74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-40 (bg)**	**0.326**	**66**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.4528**	**-84**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-4I (bg)	0.08123	41	74	No	19	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.7454**	**-124**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-5I (bg)	0	5	74	No	19	0	n/a	n/a	0.01	NP
pH (S.U.)	**GWA-2 (bg)**	**-0.04438**	**-195**	**-161**	**Yes**	**32**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	YGWA-14S (bg)	-0.01086	-32	-98	No	23	0	n/a	n/a	0.01	NP

Trend Test Summary (Prediction Limit Exceedances) - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/20/2022, 2:27 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH (S.U.)	YGWA-17S (bg)	-0.01344	-86	-92	No	22	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-18I (bg)	-0.02714	-70	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	**YGWA-18S (bg)**	**-0.05687**	**-138**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	YGWA-1D (bg)	-0.05026	-77	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-1I (bg)	-0.03356	-69	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-20S (bg)	0.01912	54	98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	**YGWA-21I (bg)**	**0.1311**	**120**	**98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	YGWA-2I (bg)	-0.02039	-33	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-30I (bg)	0.002761	9	92	No	22	0	n/a	n/a	0.01	NP
pH (S.U.)	**YGWA-39 (bg)**	**-0.2106**	**-105**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	YGWA-3D (bg)	-0.007396	-18	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-3I (bg)	-0.02691	-45	-98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-40 (bg)	-0.05563	-28	-74	No	19	0	n/a	n/a	0.01	NP
pH (S.U.)	**YGWA-47 (bg)**	**-0.0405**	**-71**	**-68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	**YGWA-4I (bg)**	**-0.0501**	**-99**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	**YGWA-5D (bg)**	**-0.07627**	**-102**	**-92**	**Yes**	**22**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	YGWA-5I (bg)	-0.02829	-70	-98	No	23	0	n/a	n/a	0.01	NP
Selenium (mg/L)	GWA-2 (bg)	0	0	206	No	38	100	n/a	n/a	0.01	NP
Selenium (mg/L)	GWC-1R	0	35	139	No	29	44.83	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-14S (bg)	0	48	81	No	20	70	n/a	n/a	0.01	NP
Selenium (mg/L)	**YGWA-17S (bg)**	**0**	**100**	**87**	**Yes**	**21**	**71.43**	**n/a**	**n/a**	**0.01**	**NP**
Selenium (mg/L)	YGWA-18I (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-18S (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-1D (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-1I (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-20S (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-21I (bg)	0	39	92	No	22	90.91	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-2I (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-30I (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-39 (bg)	0	3	68	No	18	94.44	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-3D (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-3I (bg)	0	0	81	No	20	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-40 (bg)	-0.0004047	-36	-68	No	18	38.89	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-47 (bg)	0	19	43	No	13	84.62	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-4I (bg)	0	5	92	No	22	90.91	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-5D (bg)	0	0	92	No	22	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-5I (bg)	0	19	92	No	22	95.45	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GWA-2 (bg)**	**17.26**	**87**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GWC-1R	53.16	32	63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GWC-2R**	**30.08**	**74**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GWC-5R	-5.906	-4	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-6R	-50.61	-32	-63	No	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-14S (bg)	0	-4	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0.04813	32	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.1345	-67	-74	No	19	21.05	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18S (bg)	-0.1232	-53	-74	No	19	10.53	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-1D (bg)**	**0.9733**	**121**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-1I (bg)	-0.1053	-22	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	42	74	No	19	68.42	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.2256	-45	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	1.041	62	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.01853	-15	-74	No	19	10.53	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-39 (bg)**	**-2.631**	**-74**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3D (bg)**	**0.3364**	**89**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3I (bg)**	**1.016**	**86**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-40 (bg)**	**-8.899**	**-89**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-47 (bg)**	**-17.58**	**-107**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-4I (bg)	0.04641	22	74	No	19	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-5D (bg)**	**-2.862**	**-129**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-5I (bg)**	**0.08795**	**115**	**74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	**GWA-2 (bg)**	**21.5**	**67**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GWC-1R	114.2	34	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GWC-2R**	**60.19**	**82**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GWC-4R	29.83	31	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-5R	14.04	8	63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-6R	-39.39	-20	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-14S (bg)	0.3698	12	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-17S (bg)	3.694	44	74	No	19	0	n/a	n/a	0.01	NP

Trend Test Summary (Prediction Limit Exceedances) - All Results

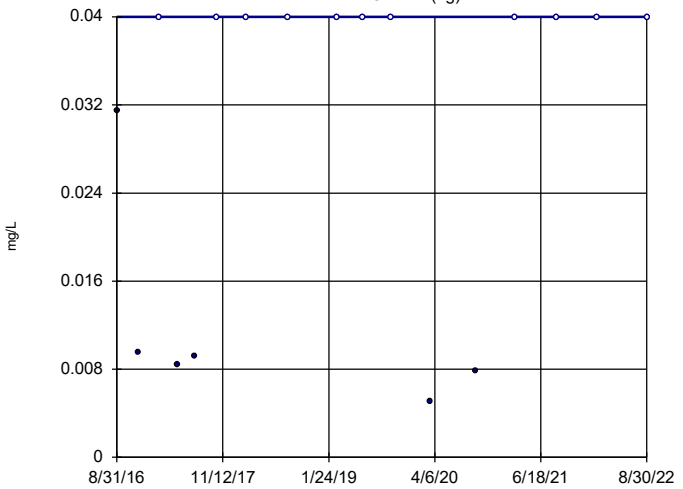
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/20/2022, 2:27 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
TDS (mg/L)	YGWA-18I (bg)	-0.8196	-19	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-18S (bg)	0.4345	10	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-1D (bg)	0.7444	13	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-1I (bg)	-2.443	-37	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-20S (bg)	2.688	34	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-21I (bg)	10.54	68	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-2I (bg)	-1.72	-28	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-30I (bg)	2.114	27	74	No	19	10.53	n/a	n/a	0.01	NP
TDS (mg/L)	**YGWA-39 (bg)**	**30.24**	**64**	**58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-3D (bg)	0.7739	9	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-3I (bg)	0.954	9	74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-40 (bg)	-11.03	-58	-58	No	16	0	n/a	n/a	0.01	NP
TDS (mg/L)	**YGWA-47 (bg)**	**-14.82**	**-90**	**-58**	**Yes**	**16**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-4I (bg)	0	-1	-74	No	19	0	n/a	n/a	0.01	NP
TDS (mg/L)	**YGWA-5D (bg)**	**-12.99**	**-99**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-5I (bg)	0	3	74	No	19	0	n/a	n/a	0.01	NP

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 17

Slope = 0 units per year.

Mann-Kendall statistic = 23 critical = 63

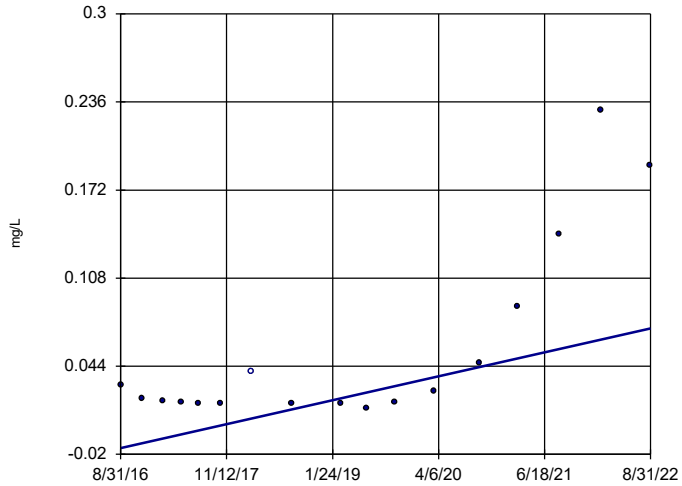
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWC-2R



n = 17

Slope = 0.01449 units per year.

Mann-Kendall statistic = 53 critical = 63

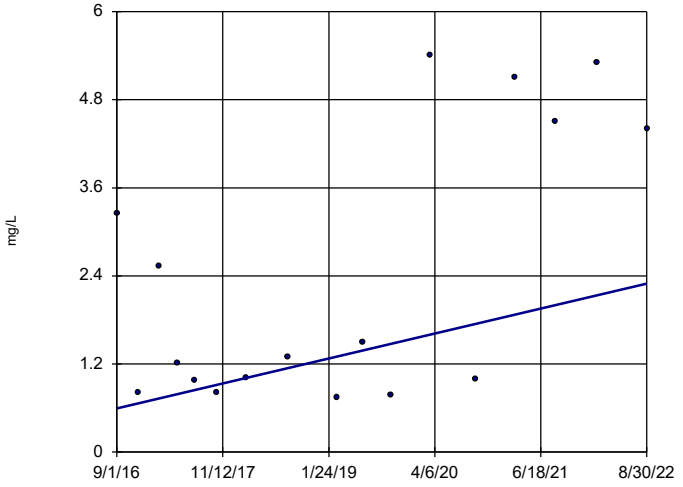
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

GWC-4R



n = 17

Slope = 0.2837 units per year.

Mann-Kendall statistic = 34 critical = 63

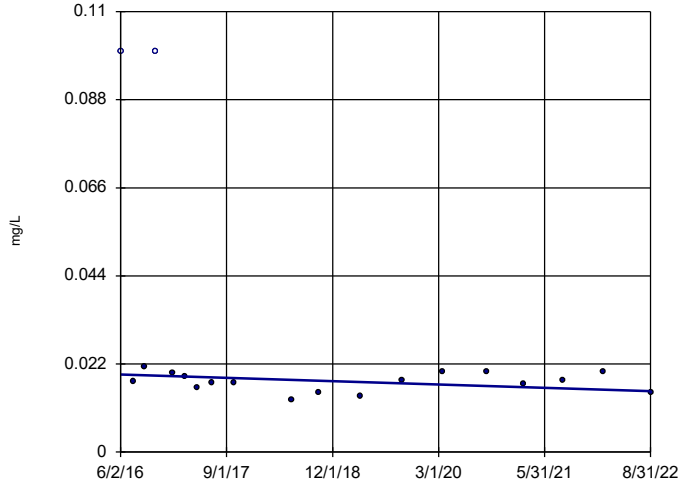
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 19

Slope = -0.000665 units per year.

Mann-Kendall statistic = -40 critical = -74

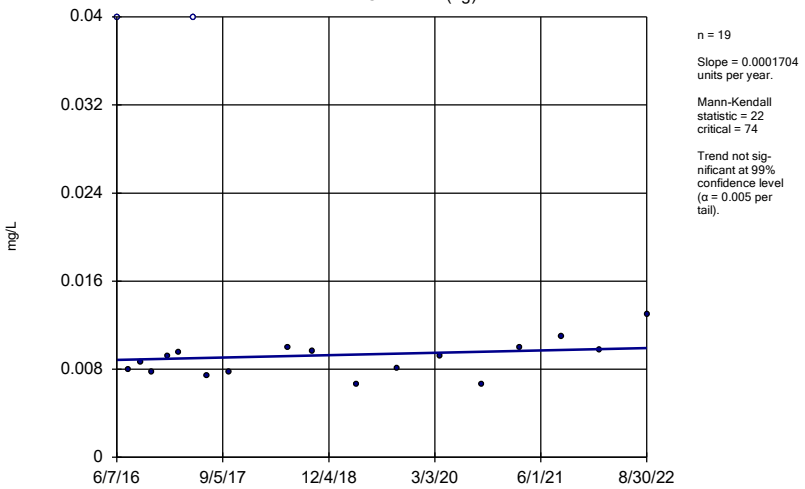
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 19

Slope = 0.0001704 units per year.

Mann-Kendall statistic = 22
critical = 74

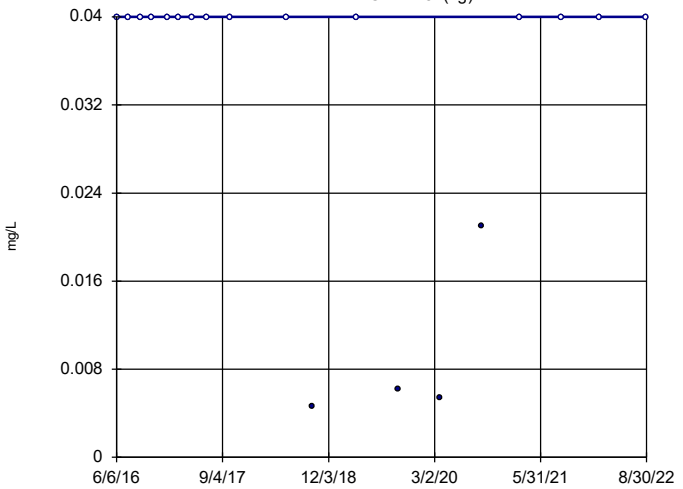
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -22
critical = -74

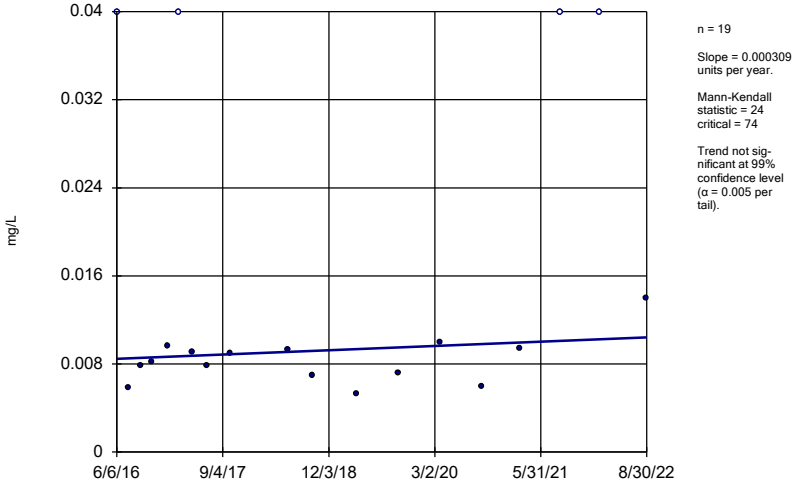
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 19

Slope = 0.000309 units per year.

Mann-Kendall statistic = 24
critical = 74

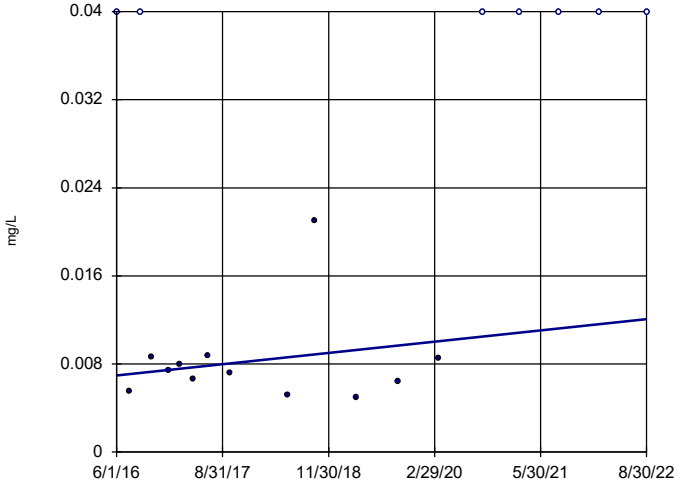
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 19

Slope = 0.0008221 units per year.

Mann-Kendall statistic = 34
critical = 74

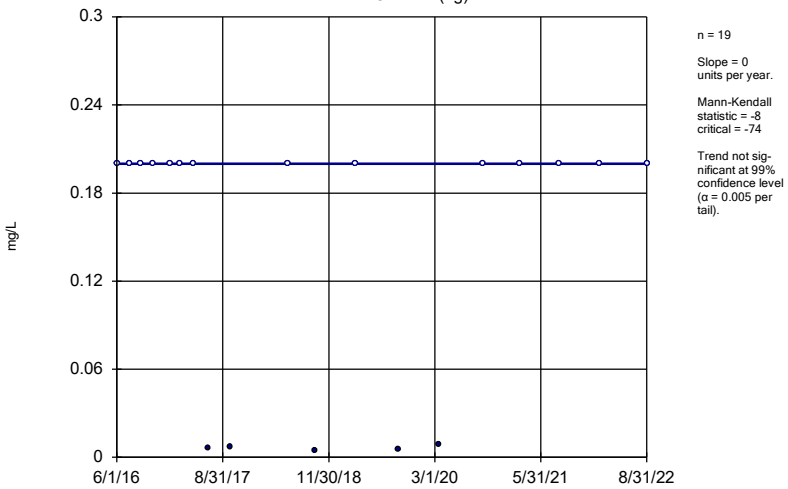
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -8
critical = -74

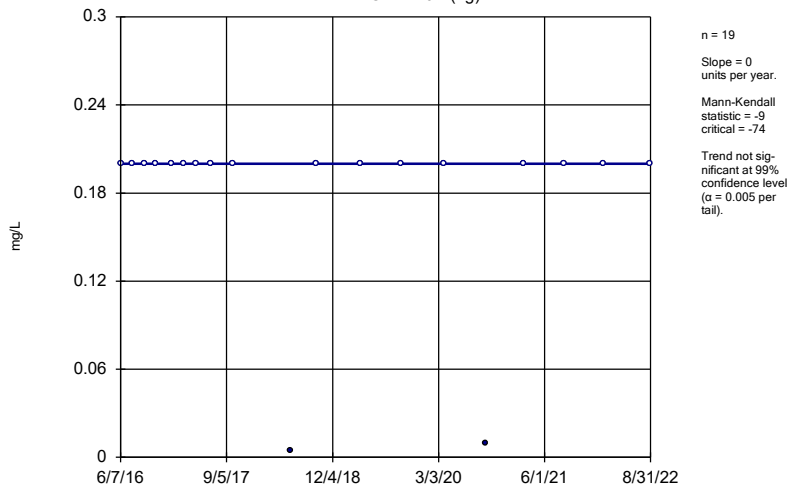
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -9
critical = -74

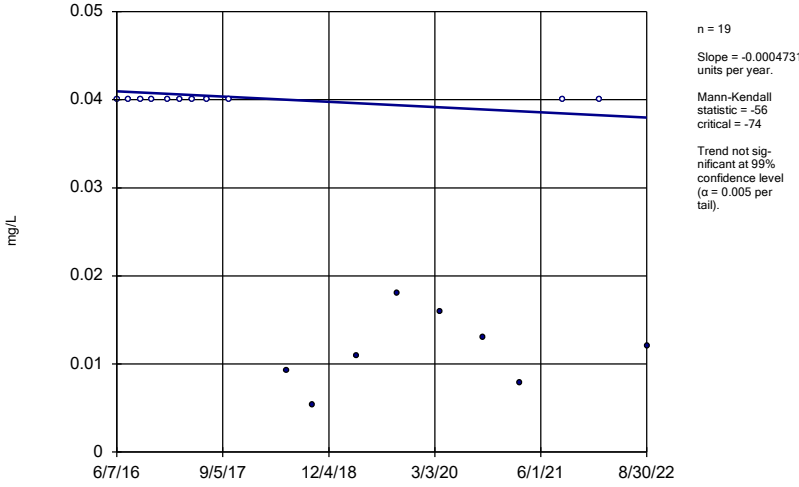
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 19

Slope = -0.0004731 units per year.

Mann-Kendall statistic = -56
critical = -74

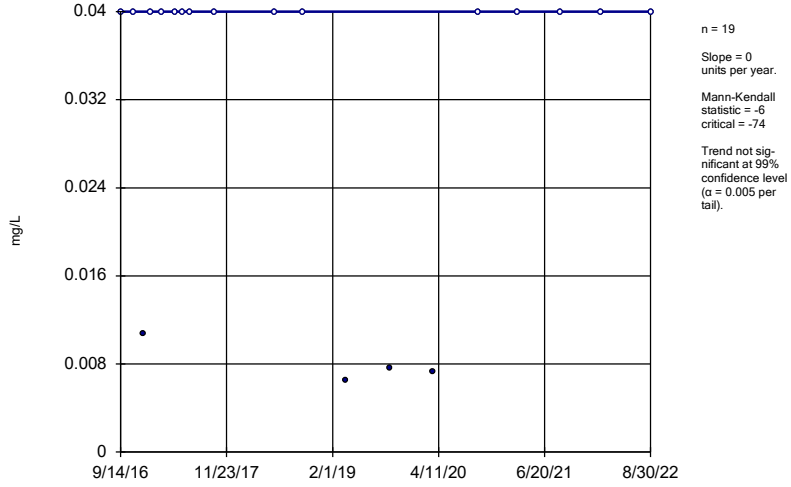
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -6
critical = -74

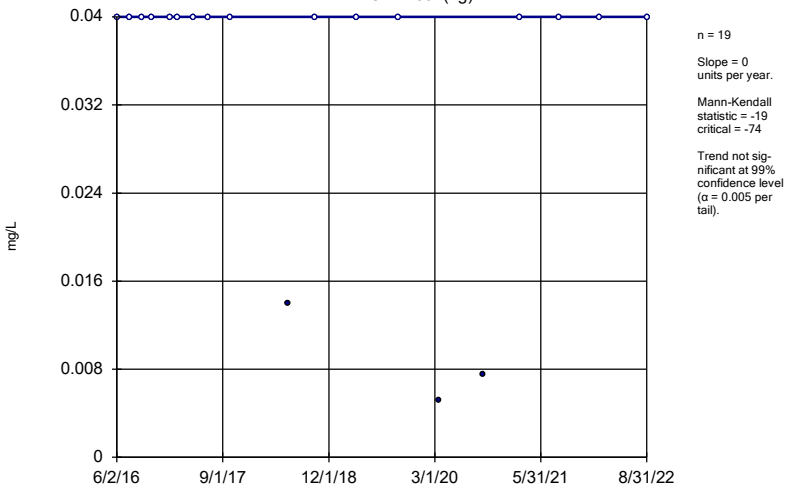
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -19
critical = -74

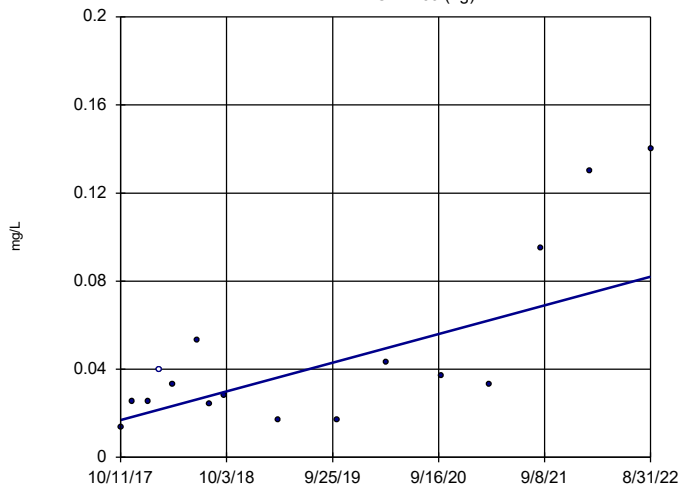
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 16

Slope = 0.01331 units per year.

Mann-Kendall statistic = 56
critical = 58

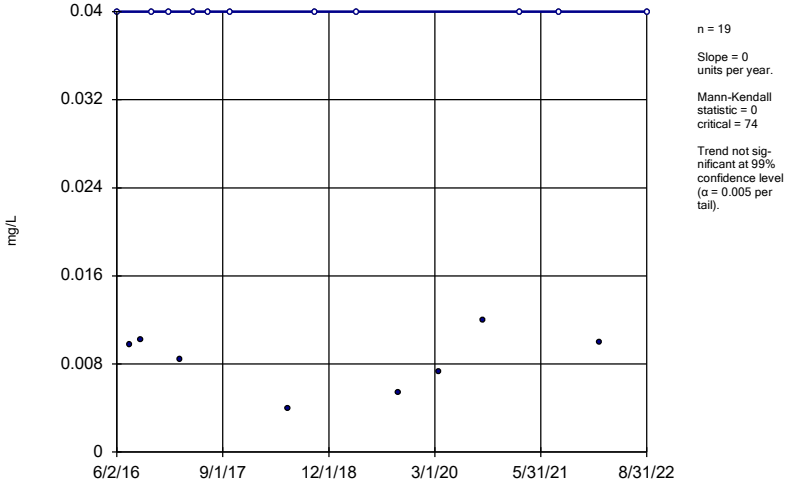
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 74

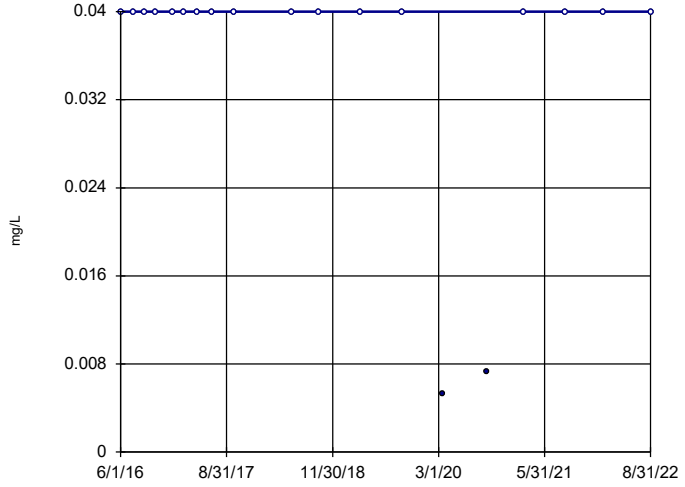
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -17
critical = -74

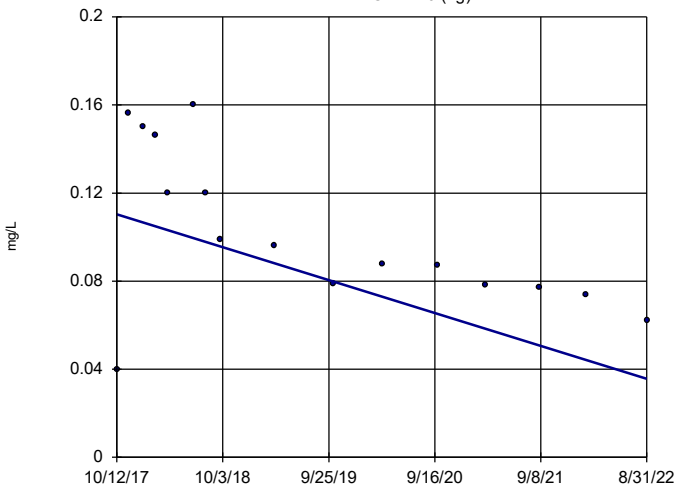
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 16

Slope = -0.01529 units per year.

Mann-Kendall statistic = -77 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

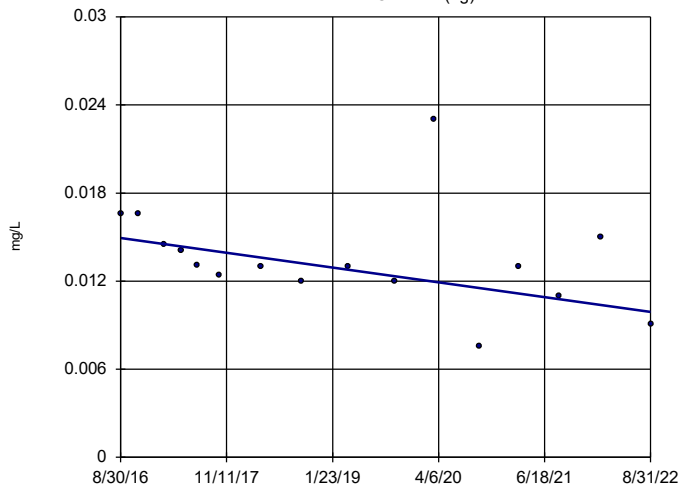
Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 16

Slope = -0.0008357 units per year.

Mann-Kendall statistic = -55 critical = -58

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test

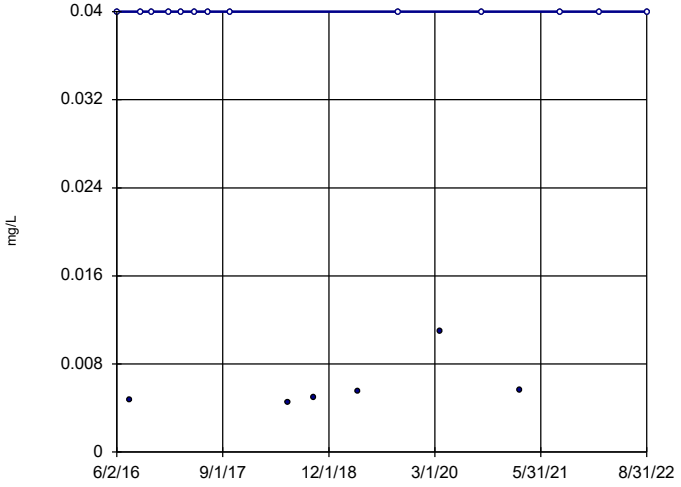
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 1 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test

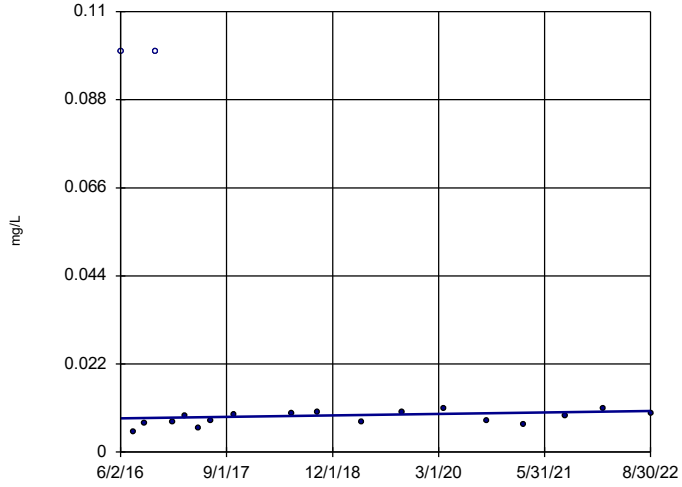
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 19

Slope = 0.0003037 units per year.

Mann-Kendall statistic = 31 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

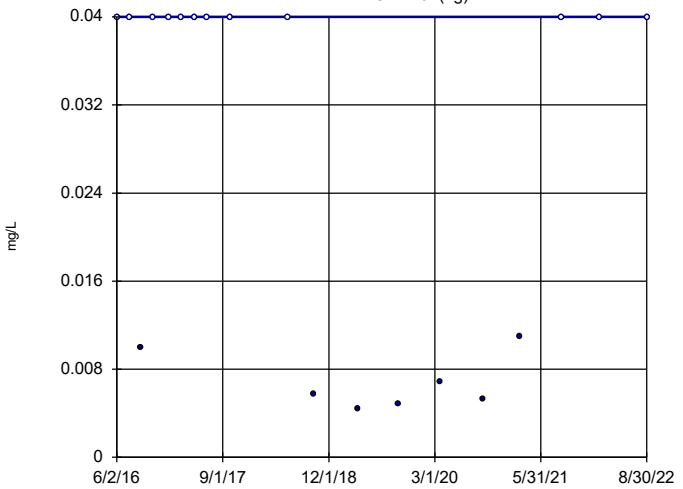
Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -25
critical = -74

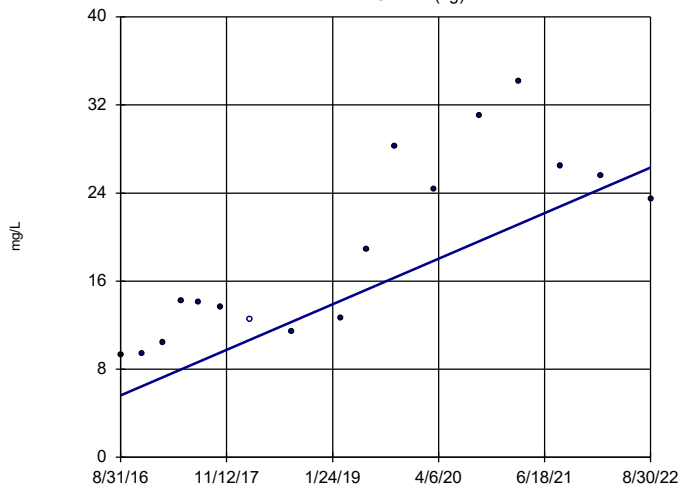
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 17

Slope = 3.453 units per year.

Mann-Kendall statistic = 82
critical = 63

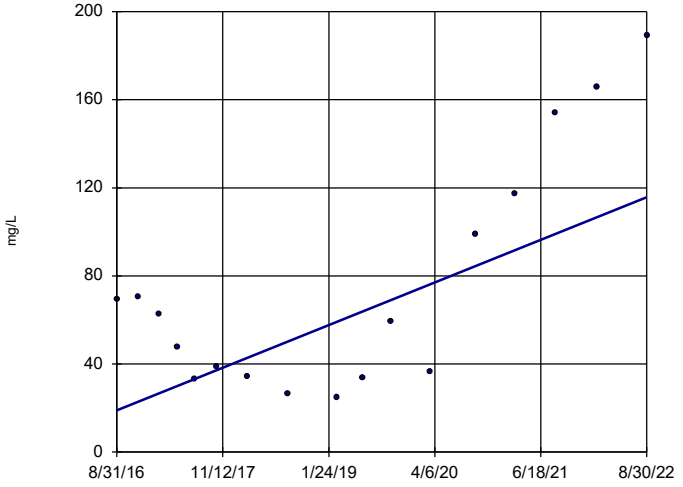
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

GWC-1R



n = 17

Slope = 16.13 units per year.

Mann-Kendall statistic = 40
critical = 63

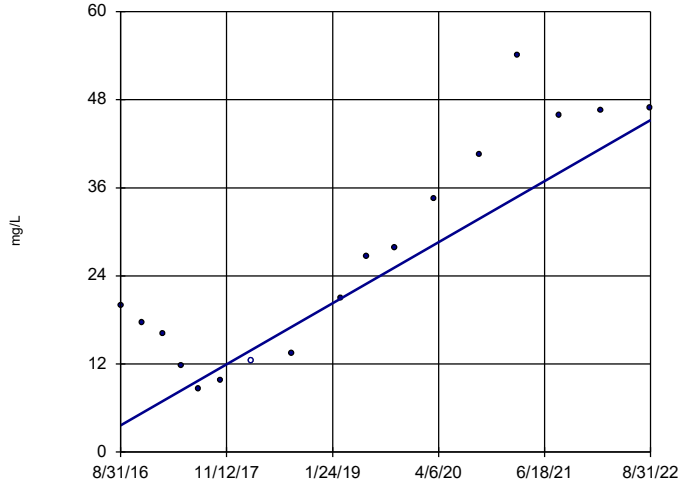
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWC-2R



n = 17

Slope = 6.93 units per year.

Mann-Kendall statistic = 90
critical = 63

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

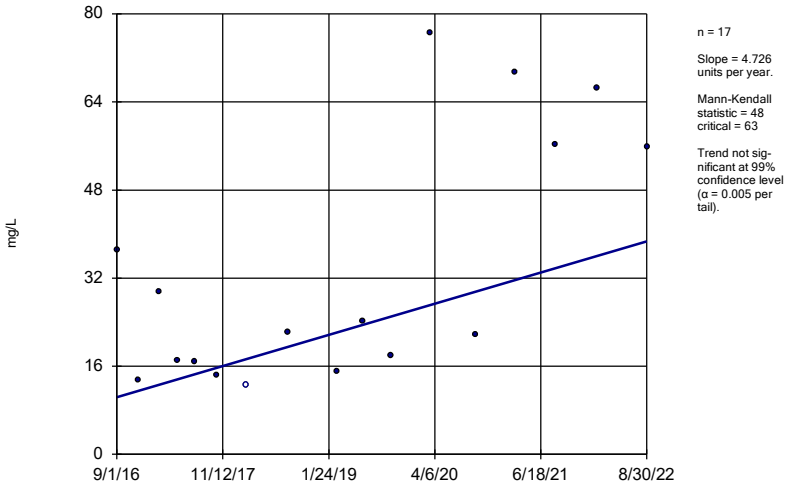
Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

GWC-4R



n = 17

Slope = 4.726 units per year.

Mann-Kendall statistic = 48 critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

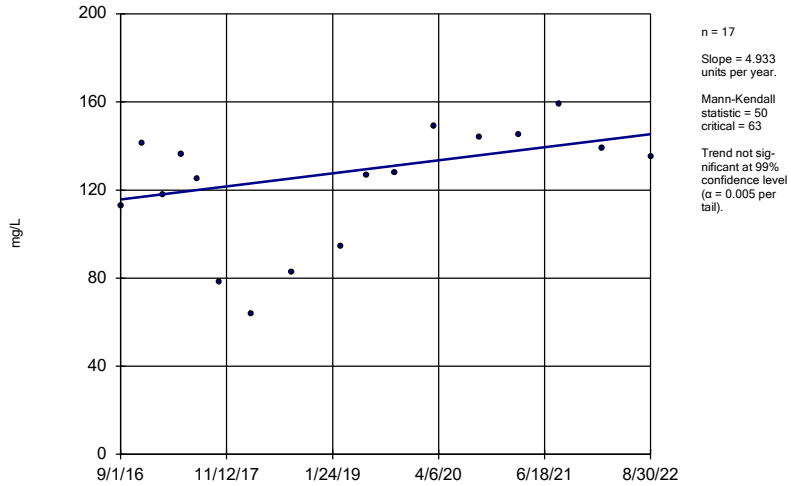
Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

GWC-5R



n = 17

Slope = 4.933 units per year.

Mann-Kendall statistic = 50 critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

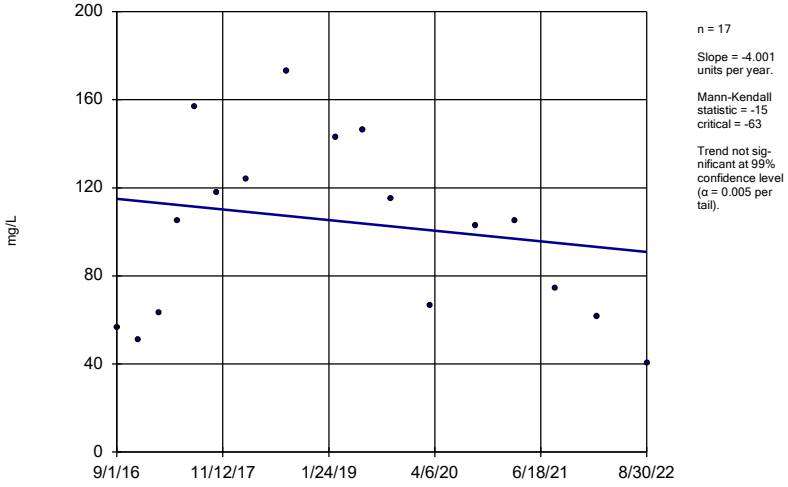
Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

GWC-6R



n = 17

Slope = -4.001 units per year.

Mann-Kendall statistic = -15 critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

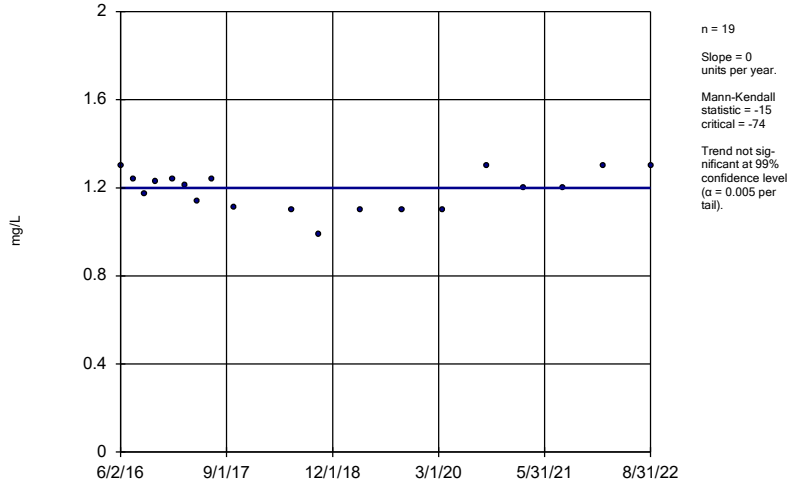
Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -15 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

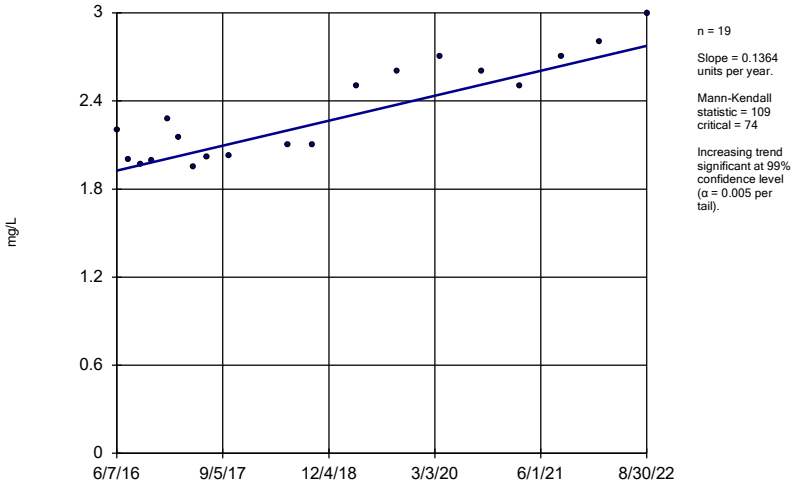
Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 19

Slope = 0.1364 units per year.

Mann-Kendall statistic = 109
critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

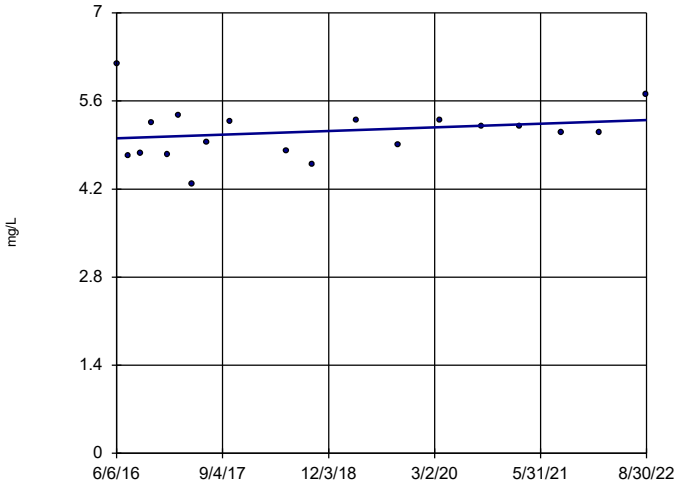
Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-18I (bg)



n = 19

Slope = 0.04637 units per year.

Mann-Kendall statistic = 26
critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

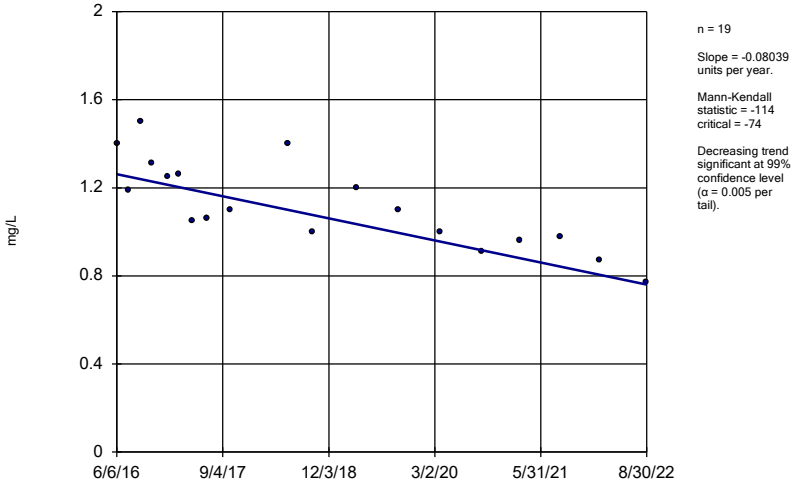
Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 19

Slope = -0.08039 units per year.

Mann-Kendall statistic = -114
critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

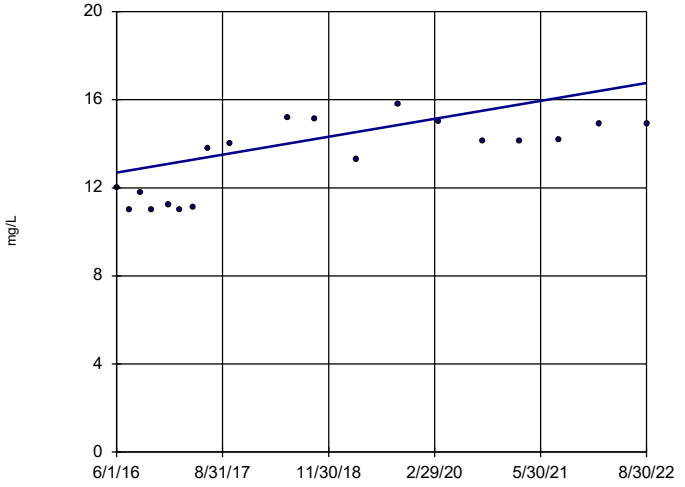
Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 19

Slope = 0.6514 units per year.

Mann-Kendall statistic = 86
critical = 74

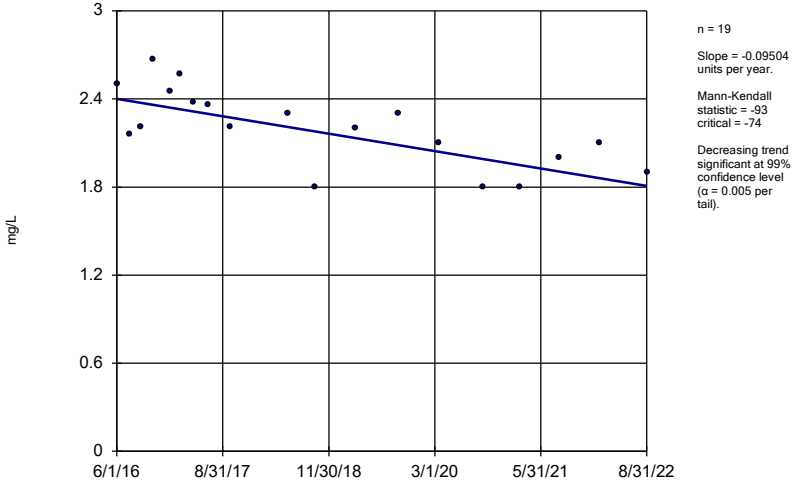
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-1I (bg)



n = 19

Slope = -0.09504 units per year.

Mann-Kendall statistic = -93
critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

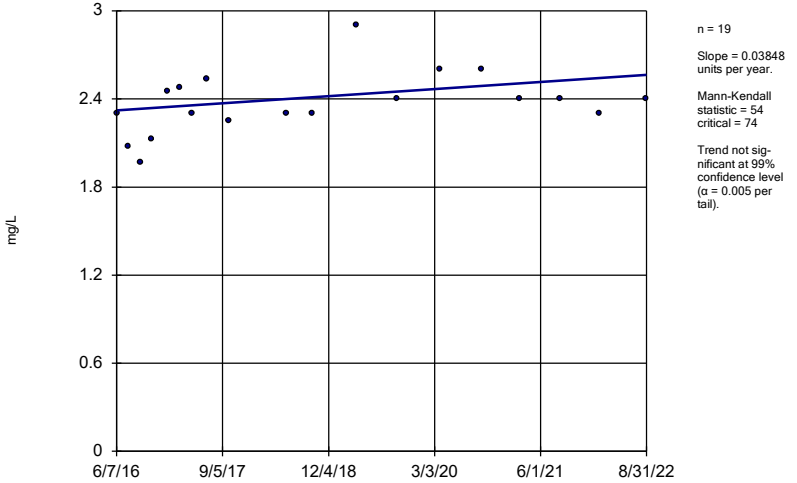
Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-20S (bg)



n = 19

Slope = 0.03848 units per year.

Mann-Kendall statistic = 54
critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

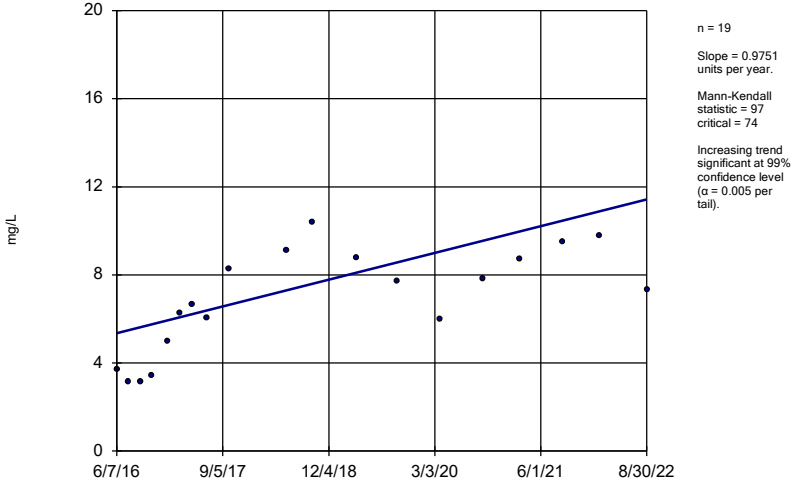
Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 19

Slope = 0.9751 units per year.

Mann-Kendall statistic = 97
critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

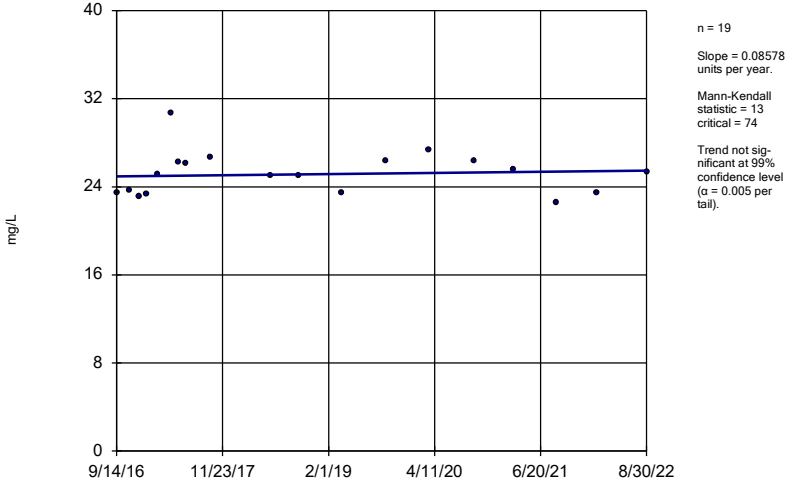
Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 19

Slope = 0.08578 units per year.

Mann-Kendall statistic = 13
critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

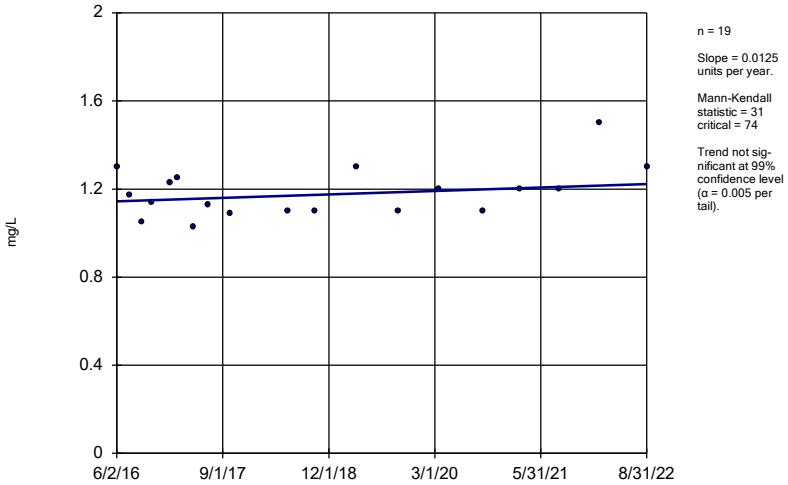
Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-30I (bg)



n = 19

Slope = 0.0125 units per year.

Mann-Kendall statistic = 31 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

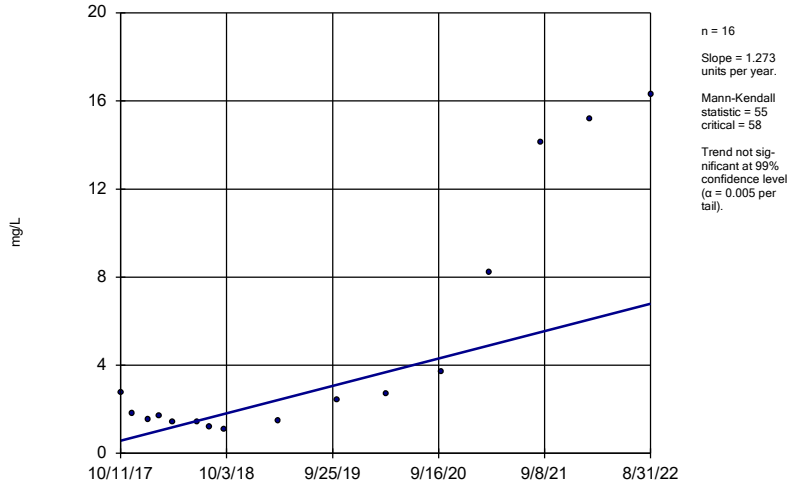
Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 16

Slope = 1.273 units per year.

Mann-Kendall statistic = 55 critical = 58

Trend not significant at 99% confidence level (α = 0.005 per tail).

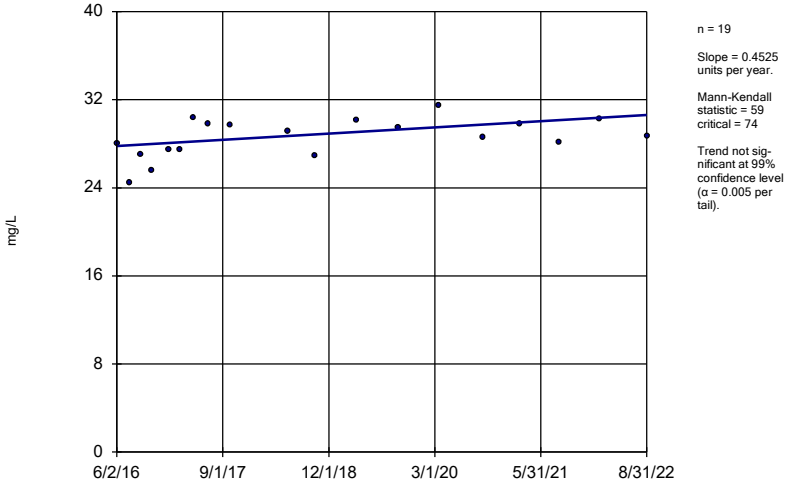
Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 19

Slope = 0.4525 units per year.

Mann-Kendall statistic = 59 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

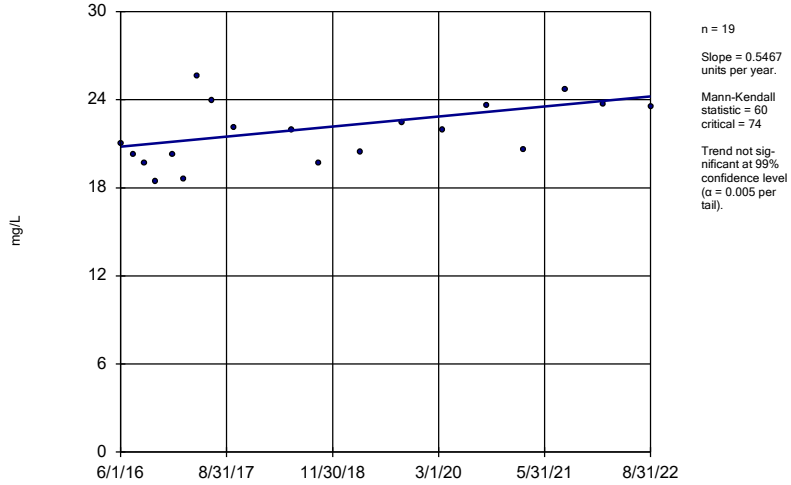
Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 19

Slope = 0.5467 units per year.

Mann-Kendall statistic = 60 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

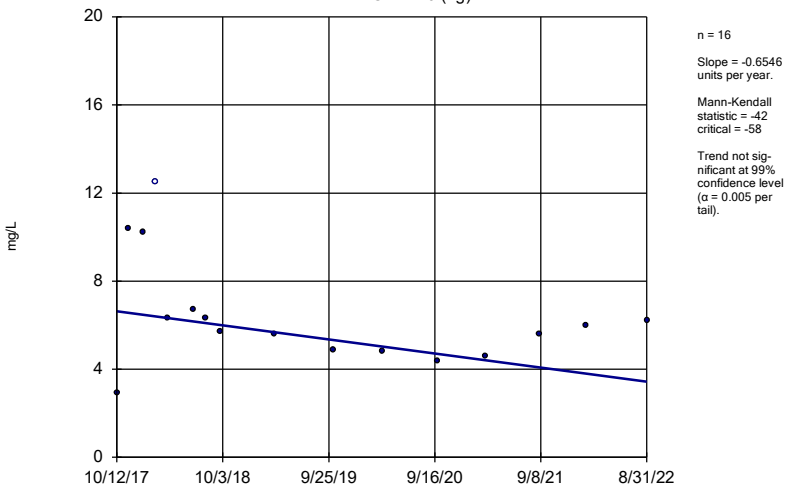
Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 16

Slope = -0.6546 units per year.

Mann-Kendall statistic = -42
critical = -58

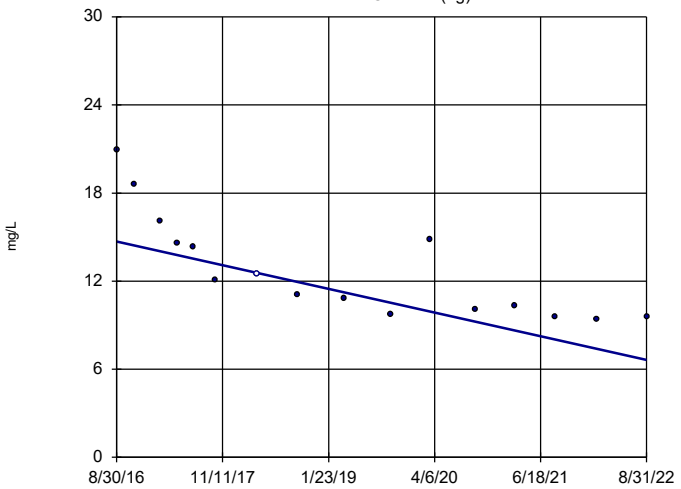
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 16

Slope = -1.342 units per year.

Mann-Kendall statistic = -95
critical = -58

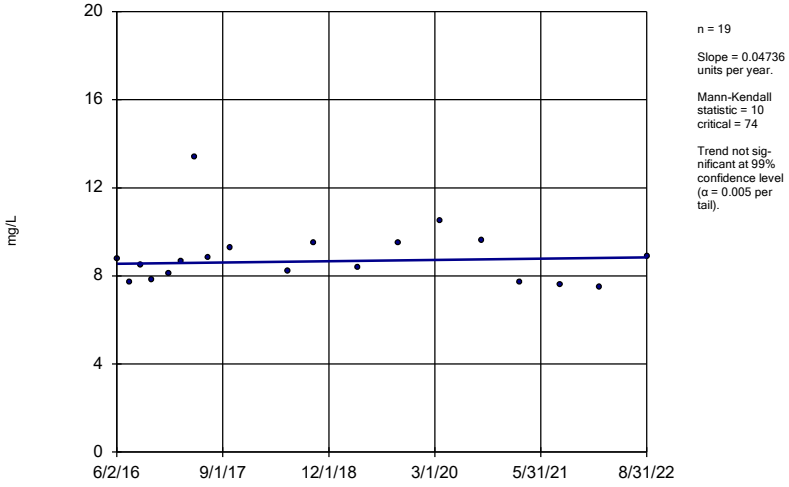
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 19

Slope = 0.04736 units per year.

Mann-Kendall statistic = 10
critical = 74

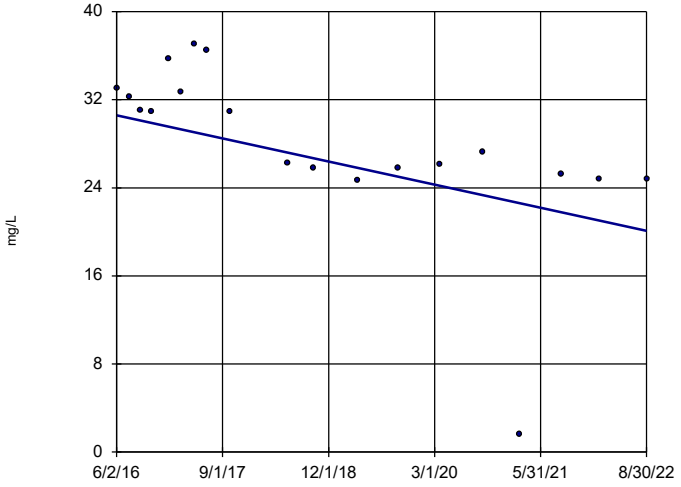
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 19

Slope = -1.676 units per year.

Mann-Kendall statistic = -100
critical = -74

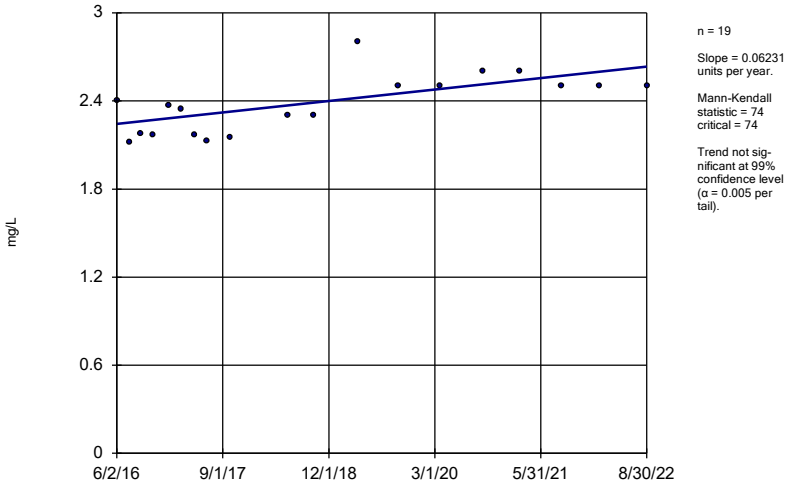
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 19

Slope = 0.06231 units per year.

Mann-Kendall statistic = 74
critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

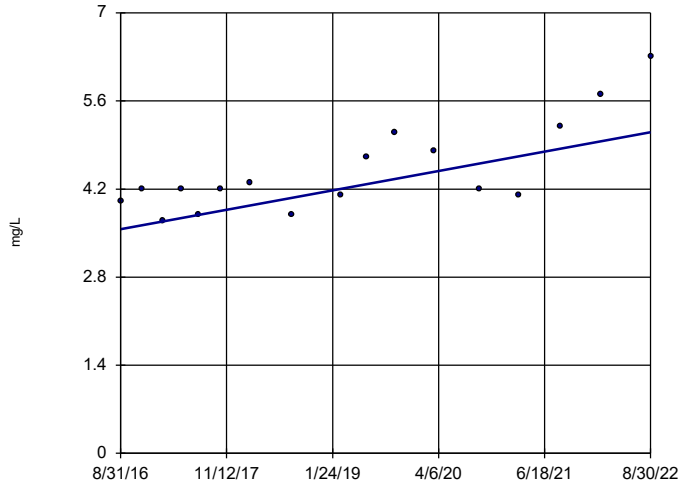
Constituent: Calcium Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

GWA-2 (bg)



n = 17

Slope = 0.2567 units per year.

Mann-Kendall statistic = 74
critical = 63

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

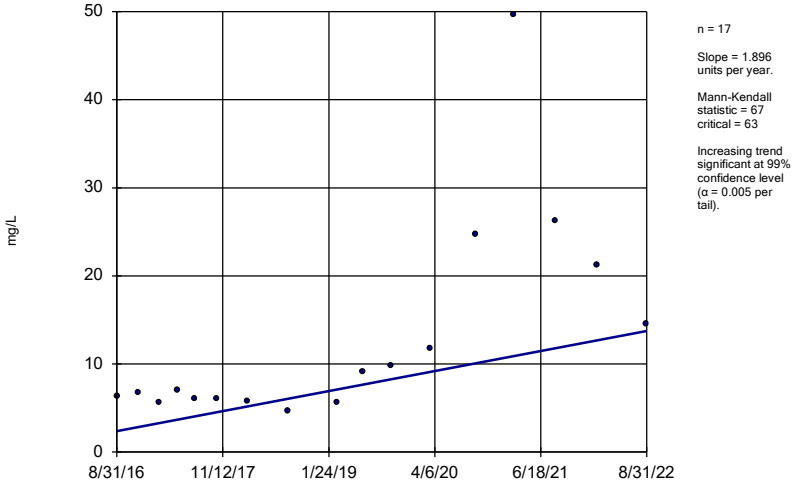
Constituent: Chloride Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

GWC-2R



n = 17

Slope = 1.896 units per year.

Mann-Kendall statistic = 67
critical = 63

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

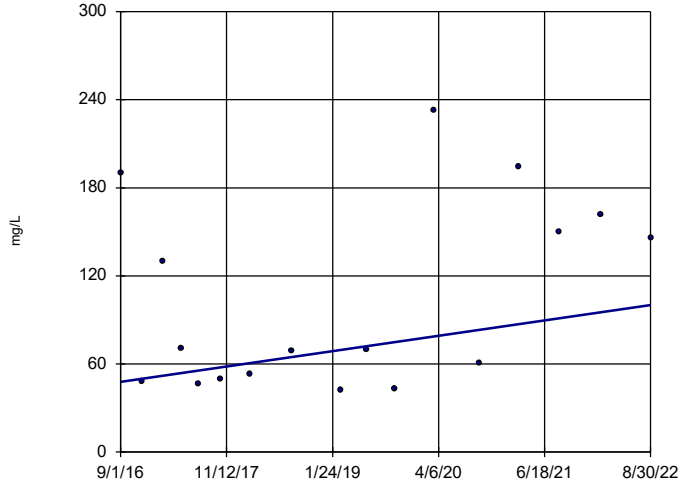
Constituent: Chloride Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

GWC-4R



n = 17

Slope = 8.737 units per year.

Mann-Kendall statistic = 26
critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

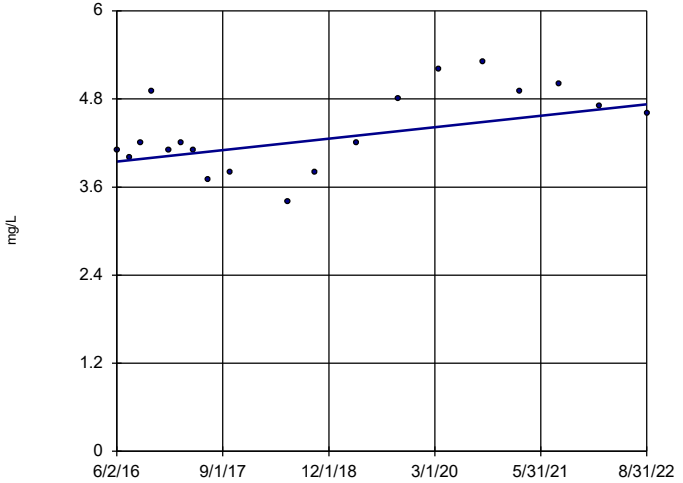
Constituent: Chloride Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 19

Slope = 0.1251 units per year.

Mann-Kendall statistic = 51
critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

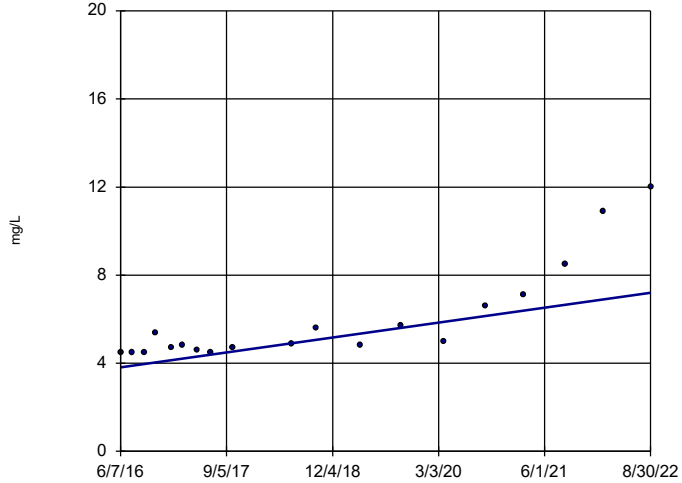
Constituent: Chloride Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 19

Slope = 0.5433 units per year.

Mann-Kendall statistic = 127
critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

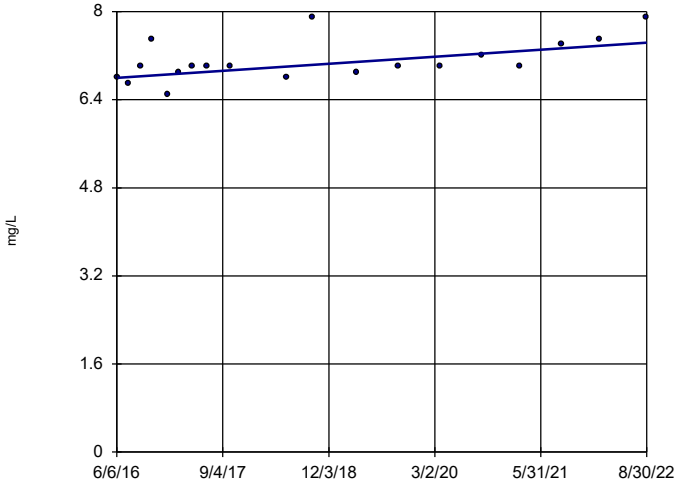
Constituent: Chloride Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-18I (bg)



n = 19

Slope = 0.1027 units per year.

Mann-Kendall statistic = 78
critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

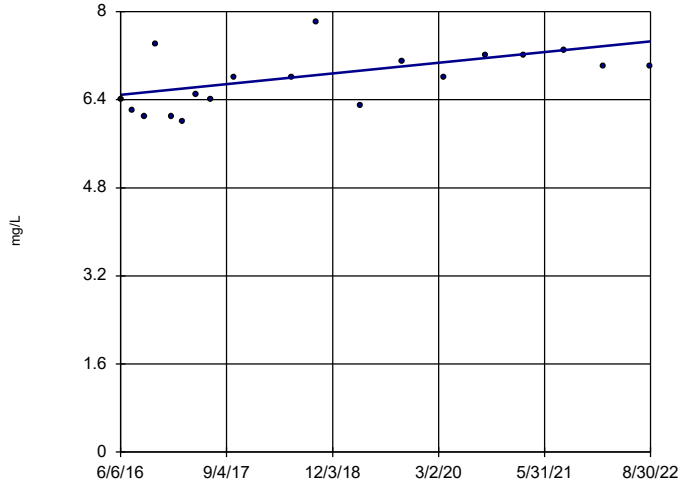
Constituent: Chloride Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 19

Slope = 0.1557 units per year.

Mann-Kendall statistic = 72
critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

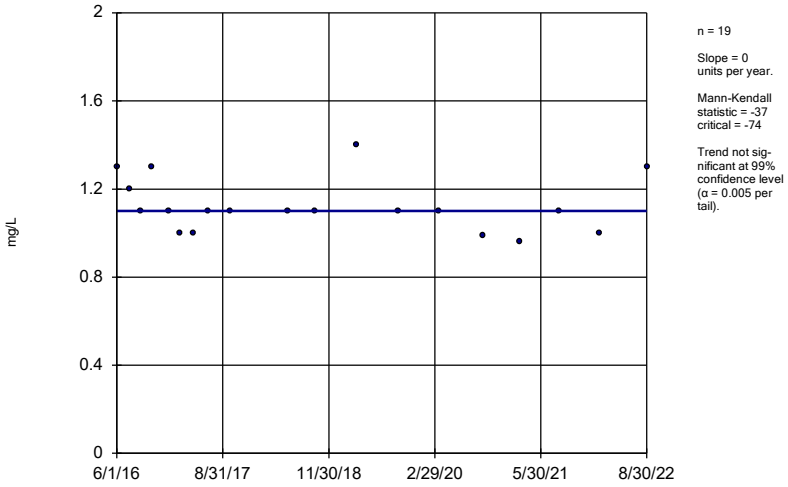
Constituent: Chloride Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -37 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

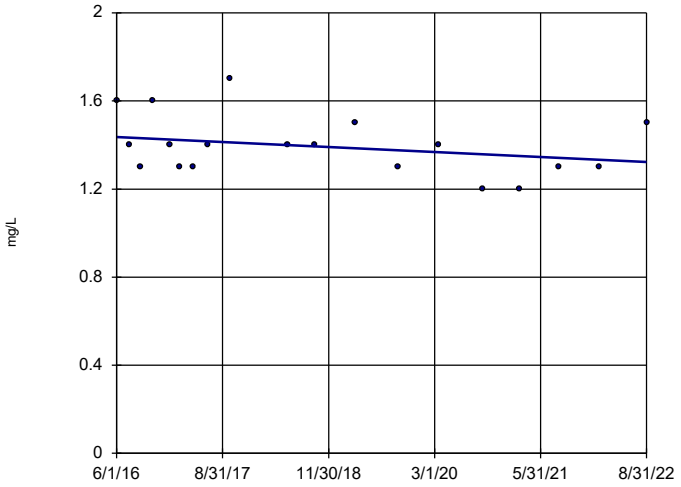
Constituent: Chloride Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-1I (bg)



n = 19

Slope = -0.01802 units per year.

Mann-Kendall statistic = -38 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

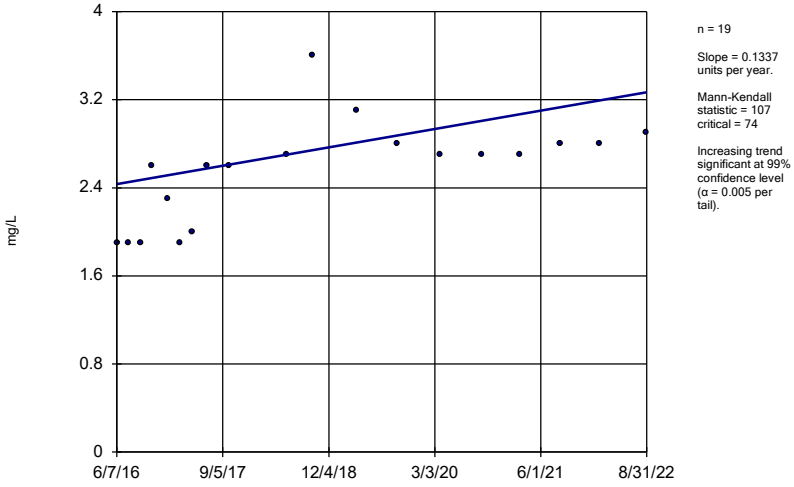
Constituent: Chloride Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-20S (bg)



n = 19

Slope = 0.1337 units per year.

Mann-Kendall statistic = 107 critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

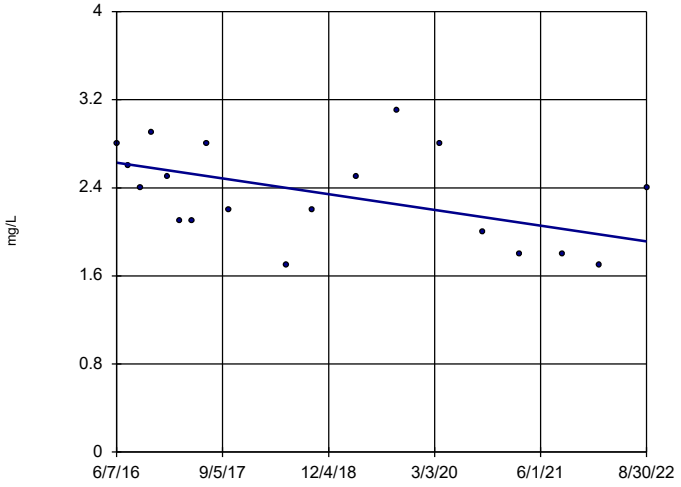
Constituent: Chloride Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 19

Slope = -0.1148 units per year.

Mann-Kendall statistic = -56 critical = -74

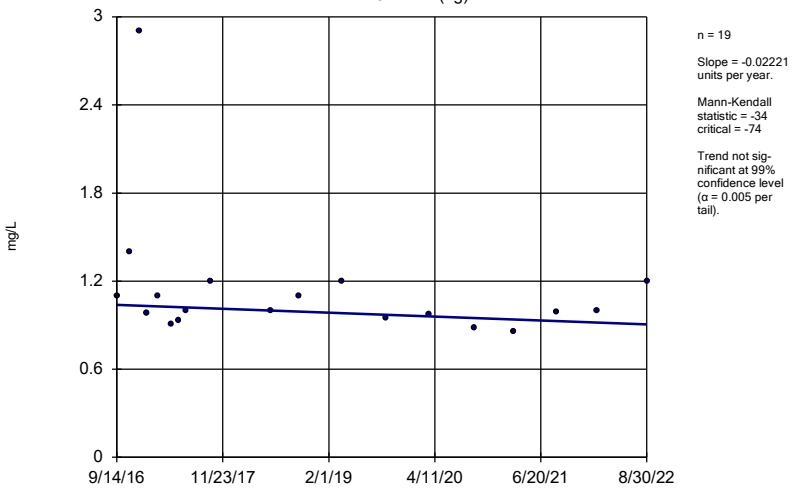
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/20/2022 2:20 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-2I (bg)



n = 19

Slope = -0.02221 units per year.

Mann-Kendall statistic = -34
critical = -74

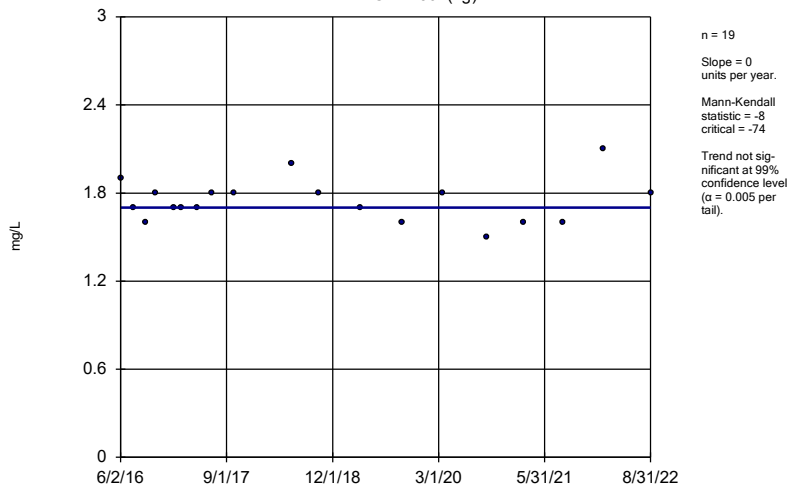
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-30I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -8
critical = -74

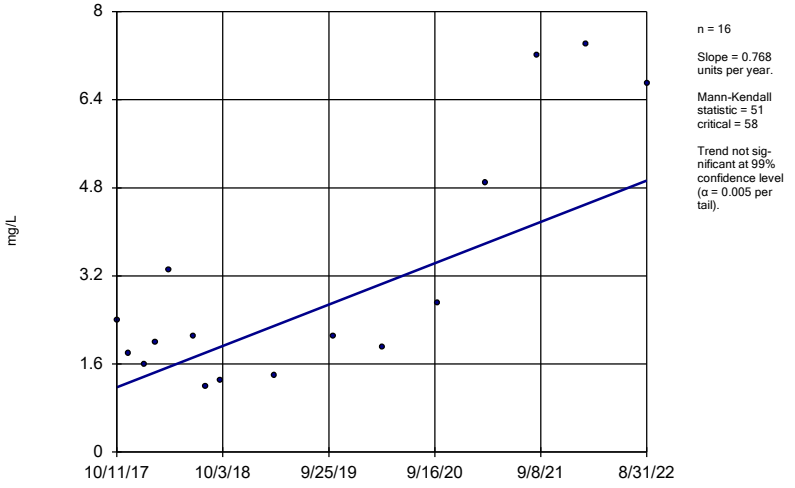
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/20/2022 2:20 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 16

Slope = 0.768 units per year.

Mann-Kendall statistic = 51
critical = 58

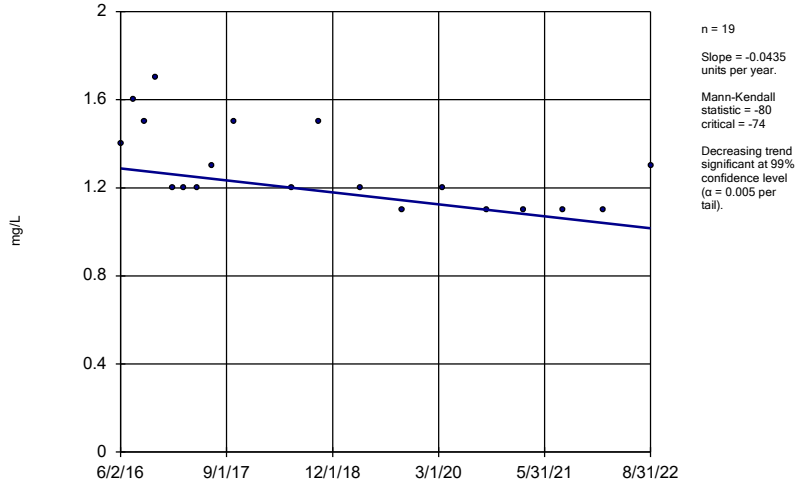
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 19

Slope = -0.0435 units per year.

Mann-Kendall statistic = -80
critical = -74

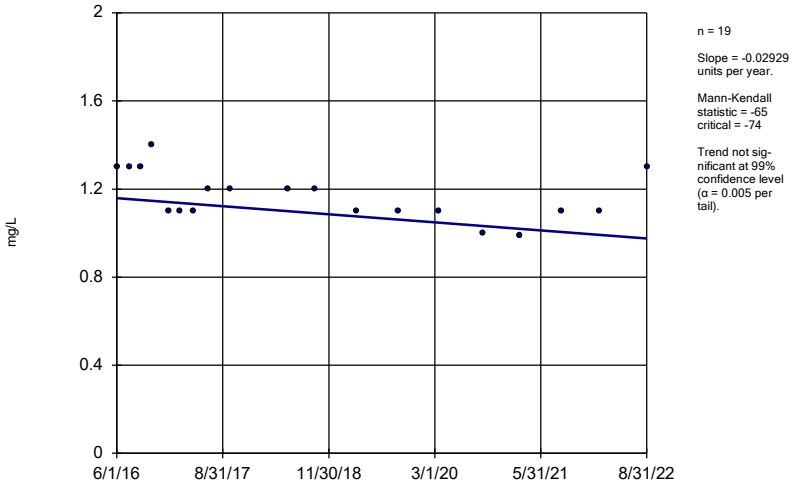
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 19

Slope = -0.02929 units per year.

Mann-Kendall statistic = -65
critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

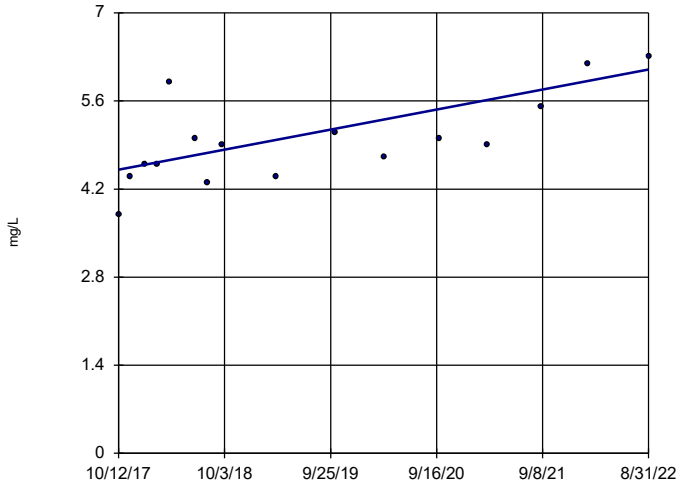
Constituent: Chloride Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 16

Slope = 0.326 units per year.

Mann-Kendall statistic = 66
critical = 58

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

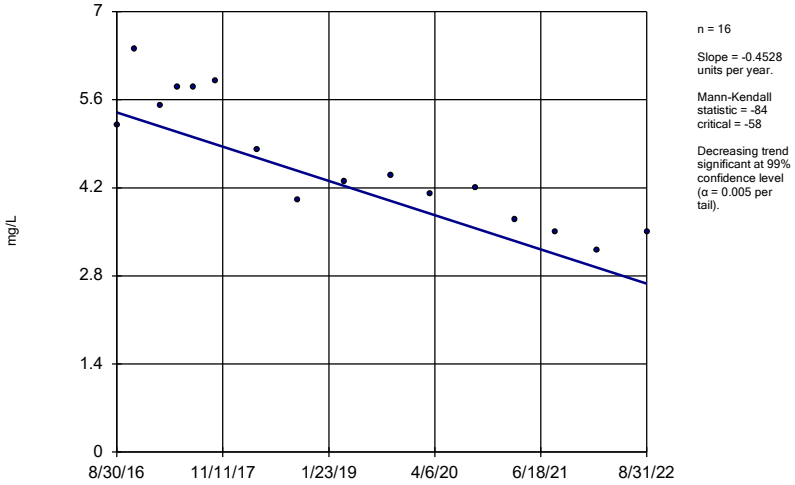
Constituent: Chloride Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 16

Slope = -0.4528 units per year.

Mann-Kendall statistic = -84
critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

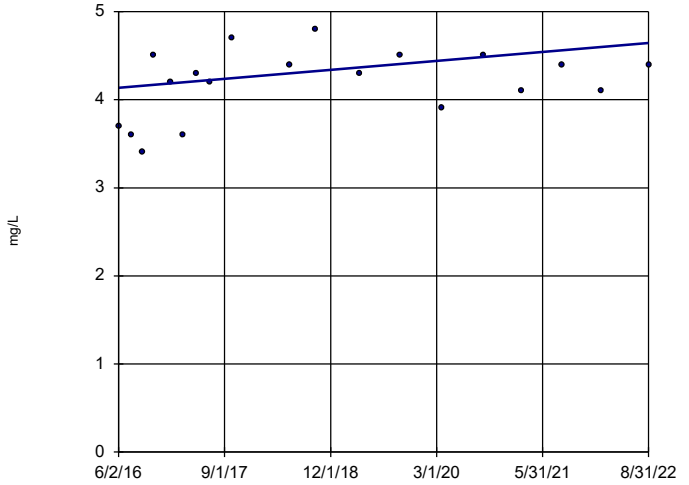
Constituent: Chloride Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 19

Slope = 0.08123 units per year.

Mann-Kendall statistic = 41
critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

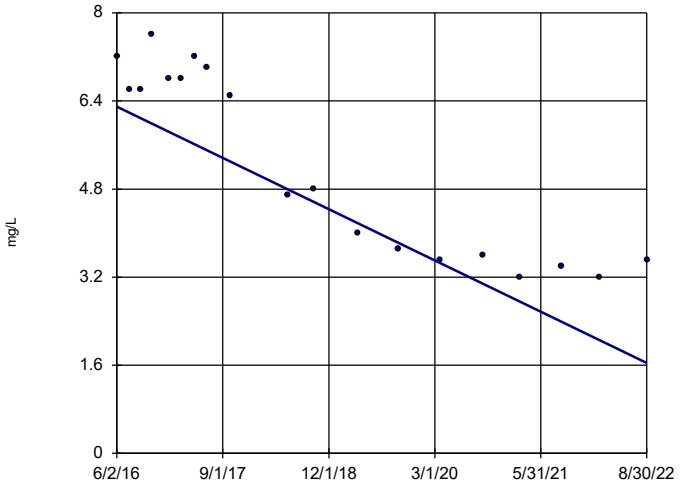
Constituent: Chloride Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 19

Slope = -0.7454 units per year.

Mann-Kendall statistic = -124 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

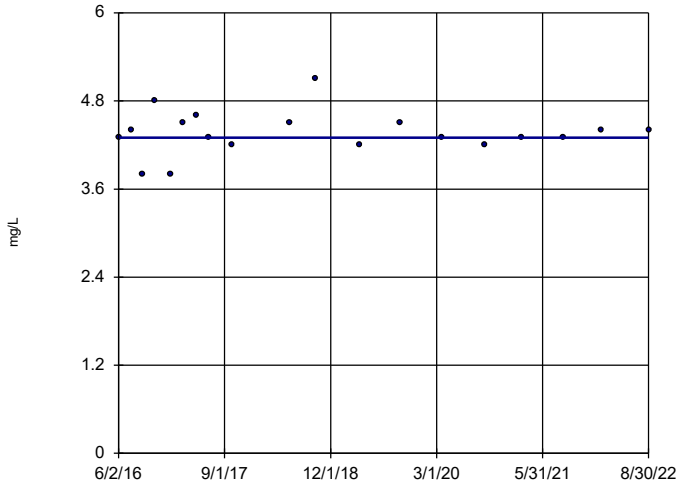
Constituent: Chloride Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 5 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

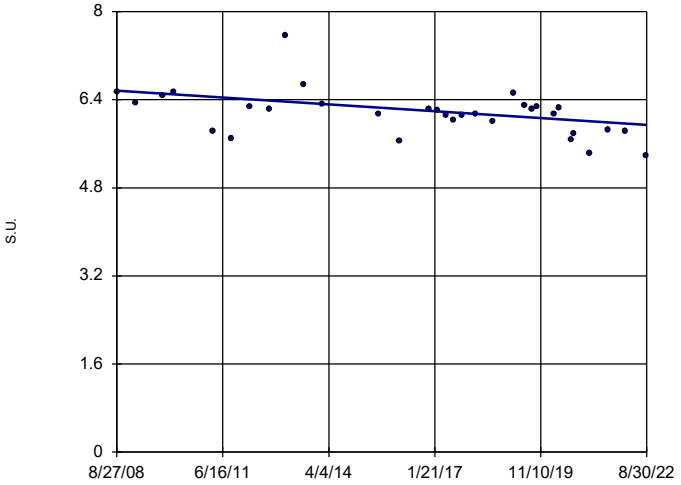
Constituent: Chloride Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

GWA-2 (bg)



n = 32

Slope = -0.04438 units per year.

Mann-Kendall statistic = -195 critical = -161

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

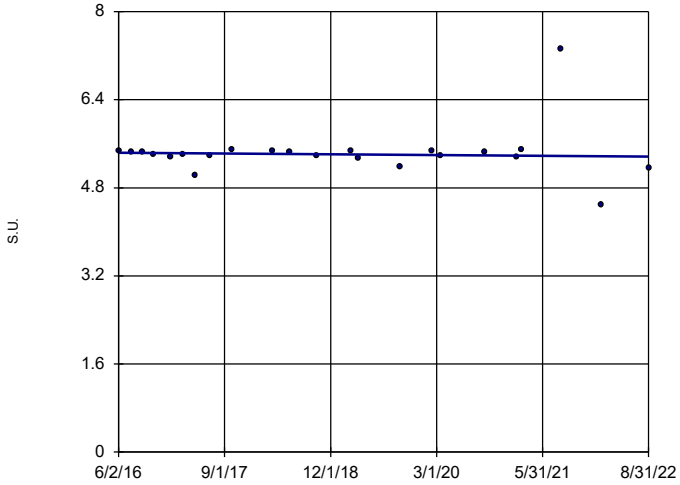
Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 23

Slope = -0.01086 units per year.

Mann-Kendall statistic = -32 critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

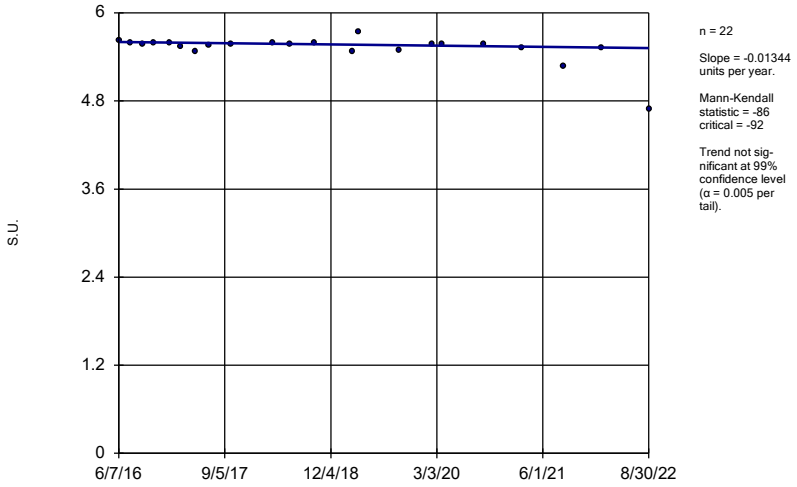
Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 22

Slope = -0.01344 units per year.

Mann-Kendall statistic = -86
critical = -92

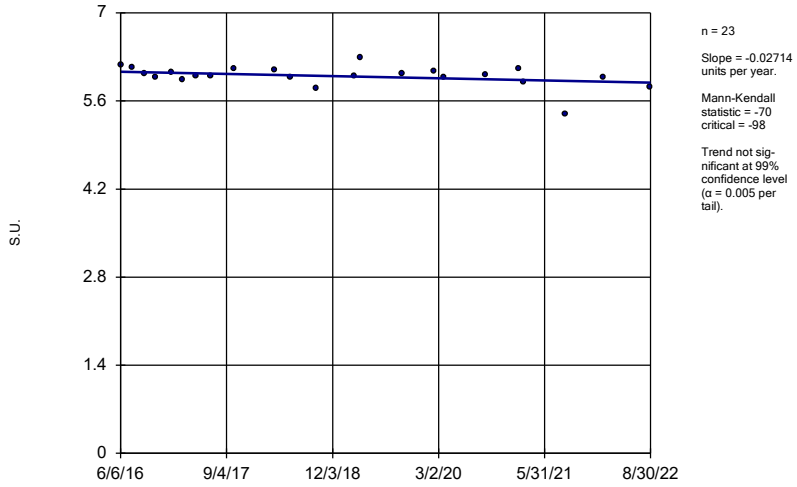
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-18I (bg)



n = 23

Slope = -0.02714 units per year.

Mann-Kendall statistic = -70
critical = -98

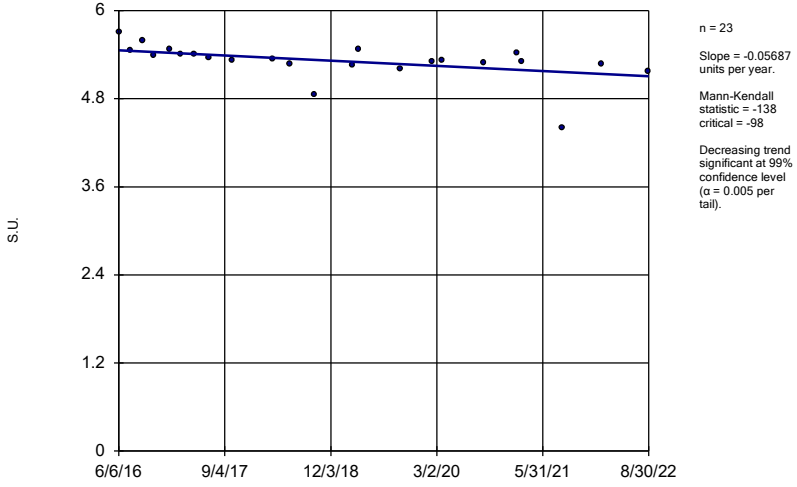
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 23

Slope = -0.05687 units per year.

Mann-Kendall statistic = -138
critical = -98

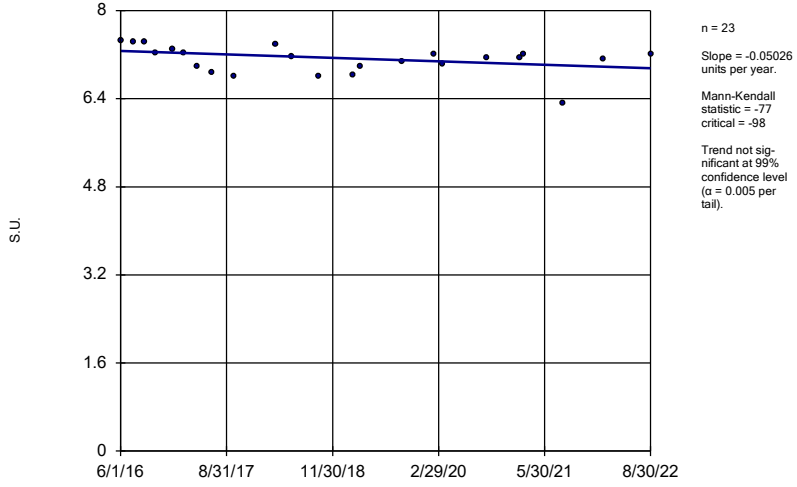
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 23

Slope = -0.05026 units per year.

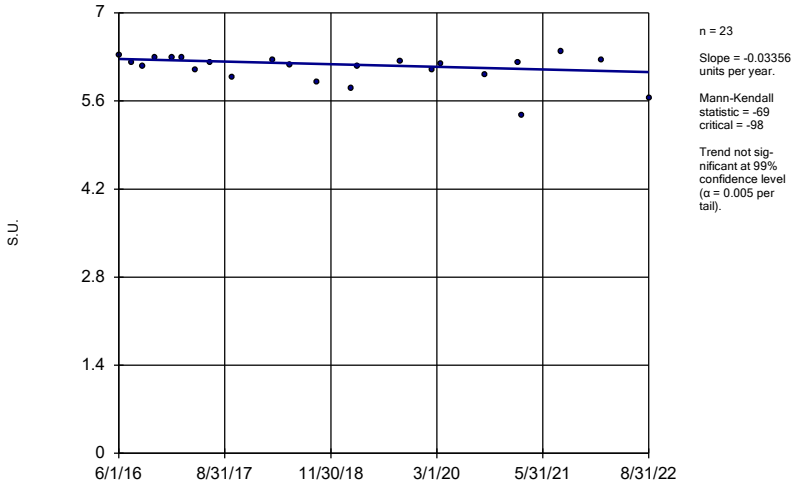
Mann-Kendall statistic = -77
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-1I (bg)



n = 23

Slope = -0.03356 units per year.

Mann-Kendall statistic = -69
critical = -98

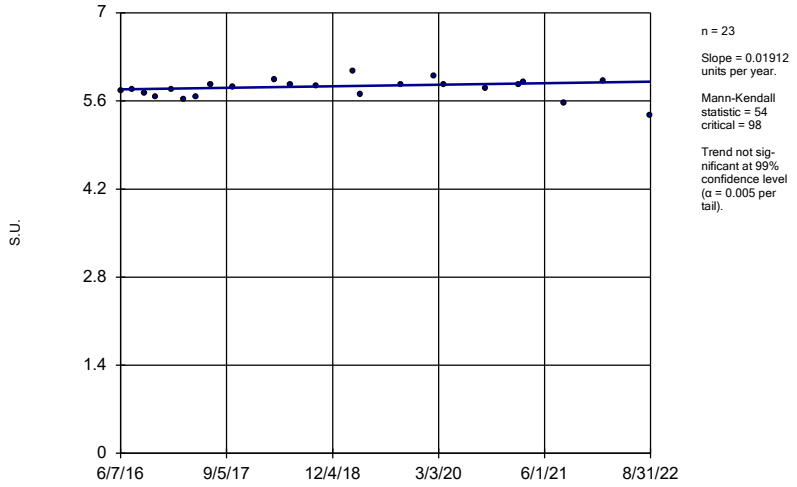
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-20S (bg)



n = 23

Slope = 0.01912 units per year.

Mann-Kendall statistic = 54
critical = 98

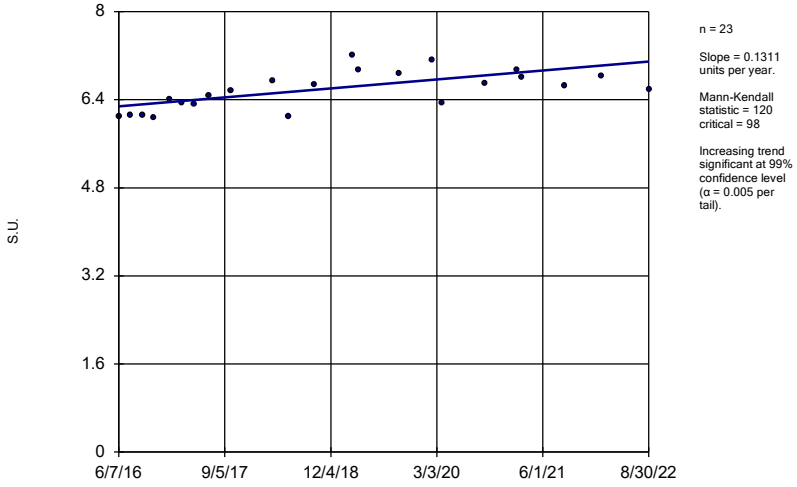
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 23

Slope = 0.1311 units per year.

Mann-Kendall statistic = 120
critical = 98

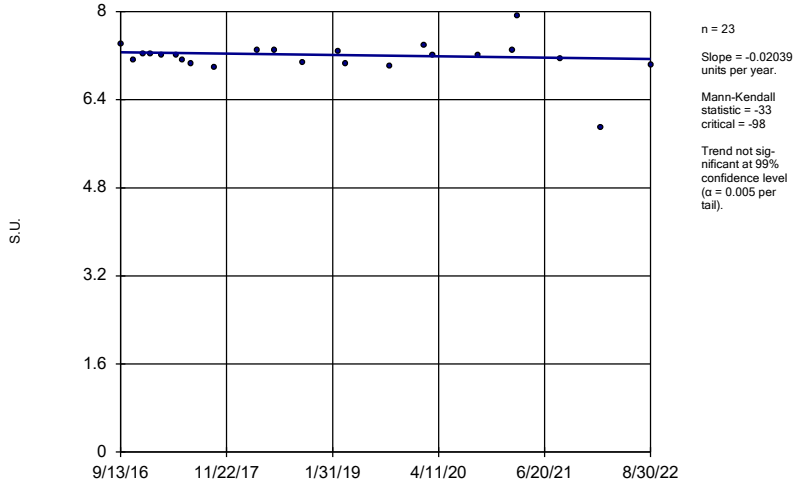
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 23

Slope = -0.02039 units per year.

Mann-Kendall statistic = -33
critical = -98

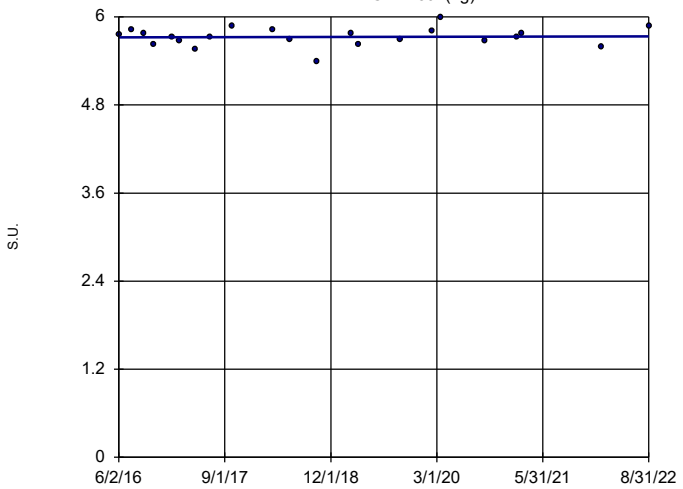
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-30I (bg)



n = 22

Slope = 0.002761 units per year.

Mann-Kendall statistic = 9
critical = 92

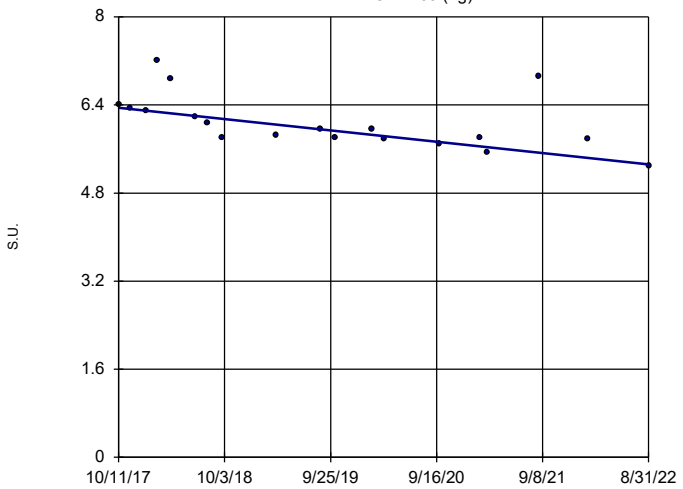
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 19

Slope = -0.2106 units per year.

Mann-Kendall statistic = -105
critical = -74

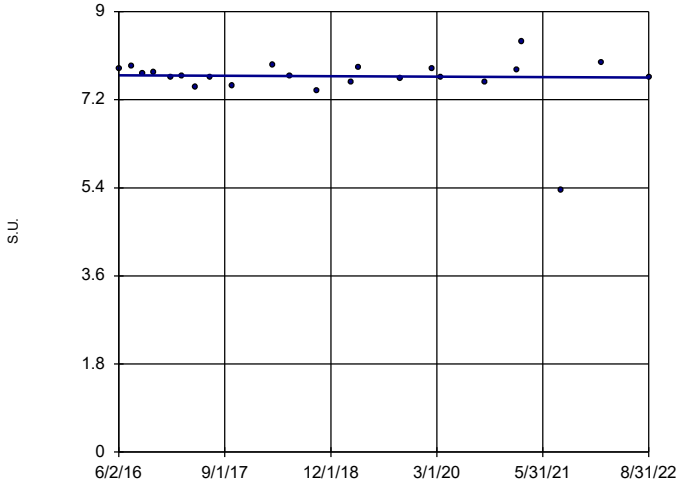
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 23

Slope = -0.007396 units per year.

Mann-Kendall statistic = -18
critical = -98

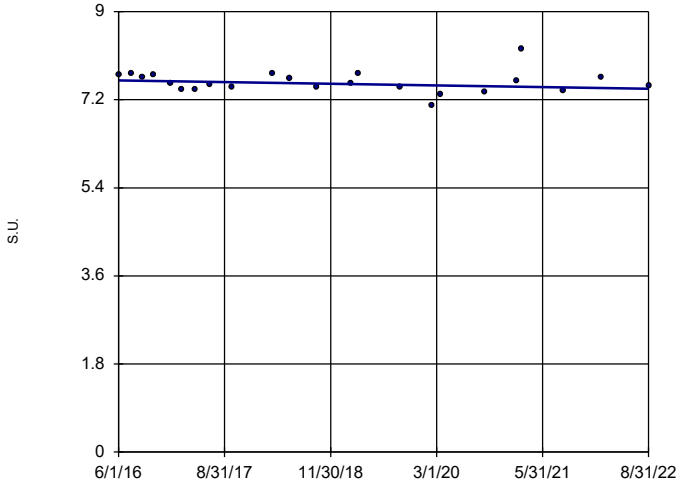
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 23

Slope = -0.02691 units per year.

Mann-Kendall statistic = -45
critical = -98

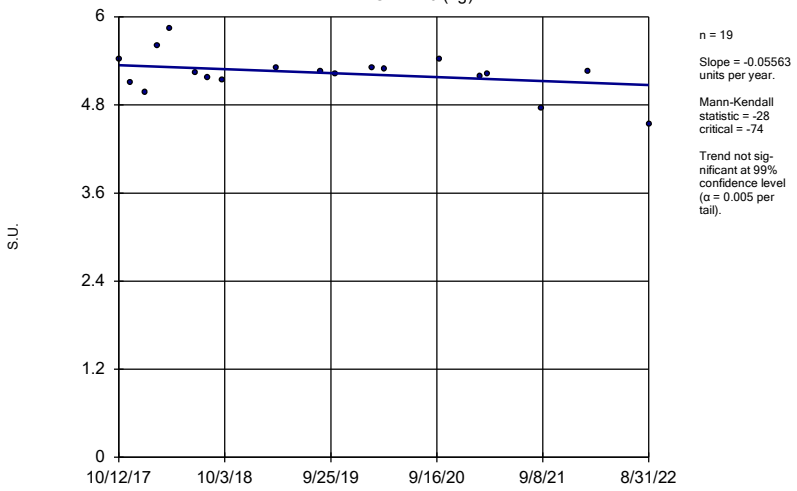
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 19

Slope = -0.05563 units per year.

Mann-Kendall statistic = -28 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

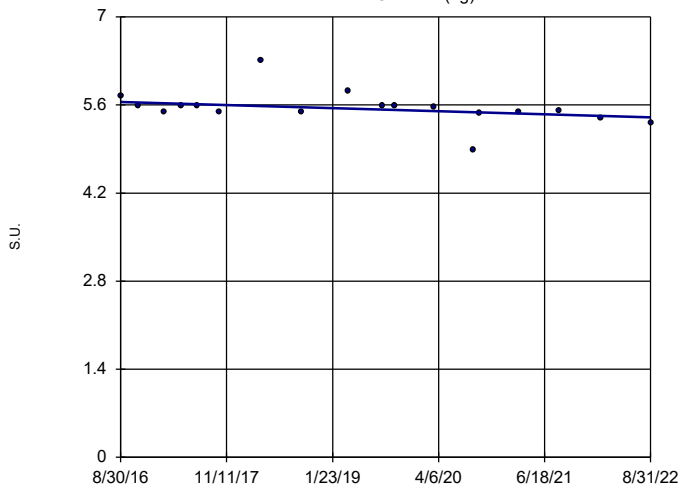
Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 18

Slope = -0.0405 units per year.

Mann-Kendall statistic = -71 critical = -68

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

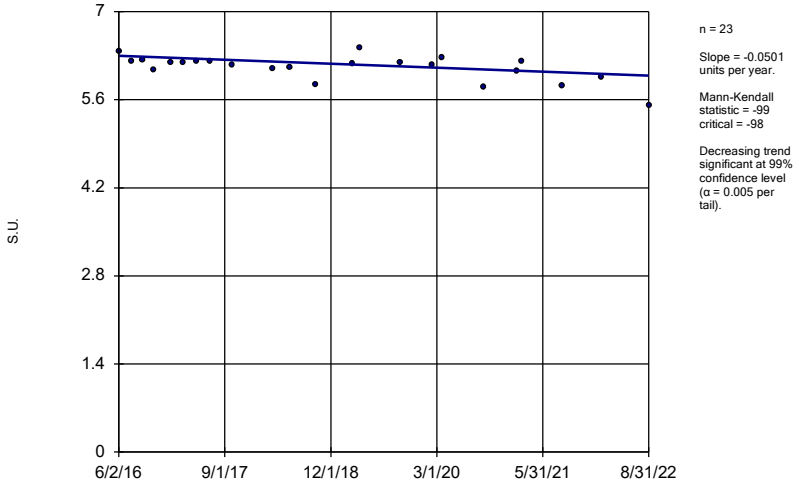
Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 23

Slope = -0.0501 units per year.

Mann-Kendall statistic = -99 critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

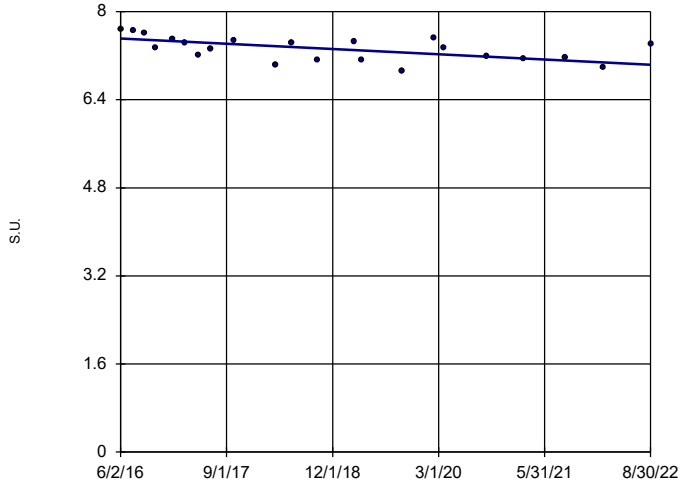
Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 22

Slope = -0.07627 units per year.

Mann-Kendall statistic = -102 critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

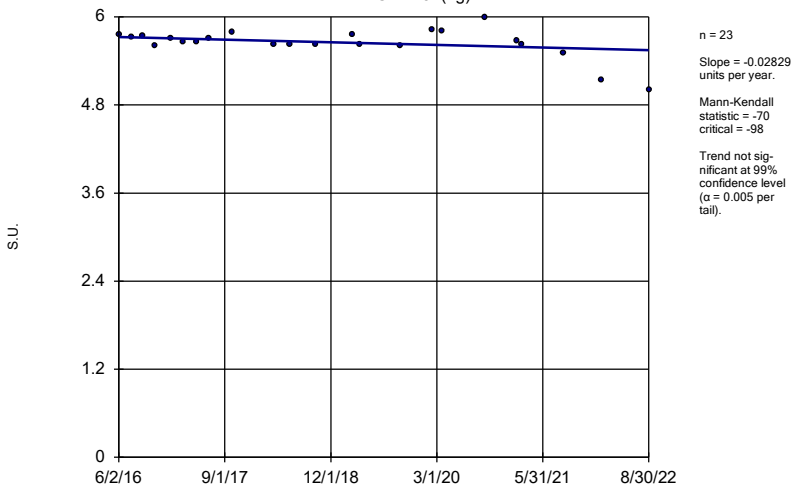
Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 23

Slope = -0.02829 units per year.

Mann-Kendall statistic = -70 critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 10/20/2022 2:21 AM View: Trend Test

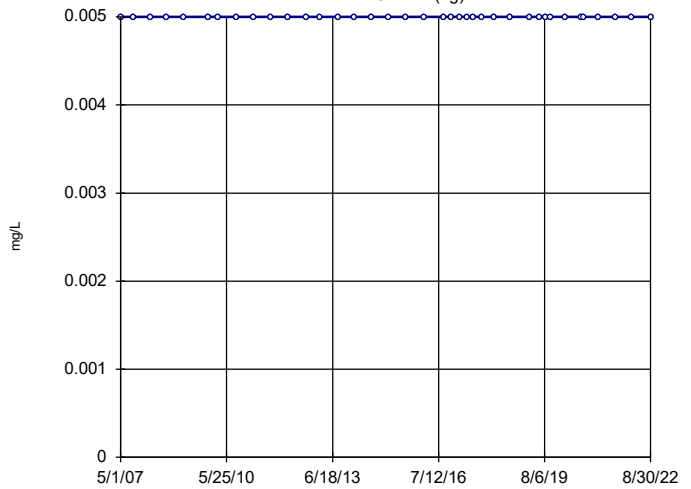
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 38

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 206

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test

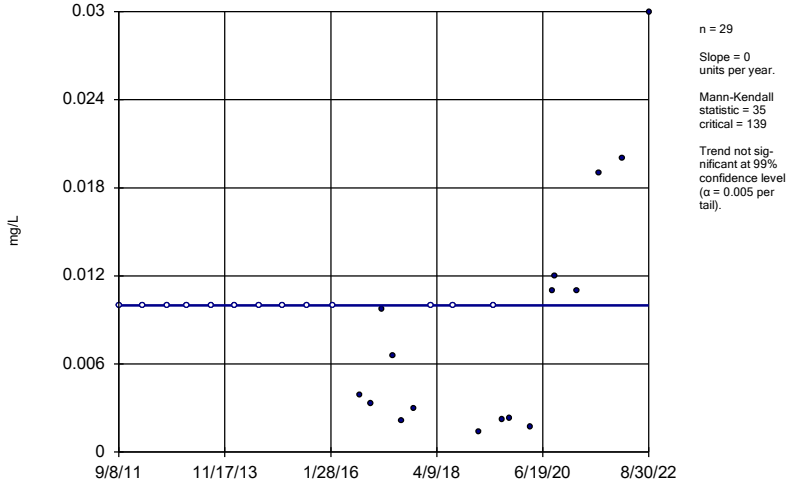
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

GWC-1R



n = 29

Slope = 0 units per year.

Mann-Kendall statistic = 35 critical = 139

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test

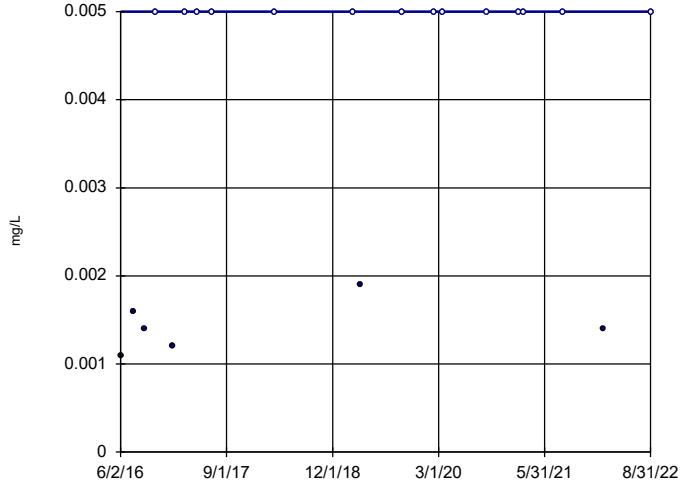
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 48 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

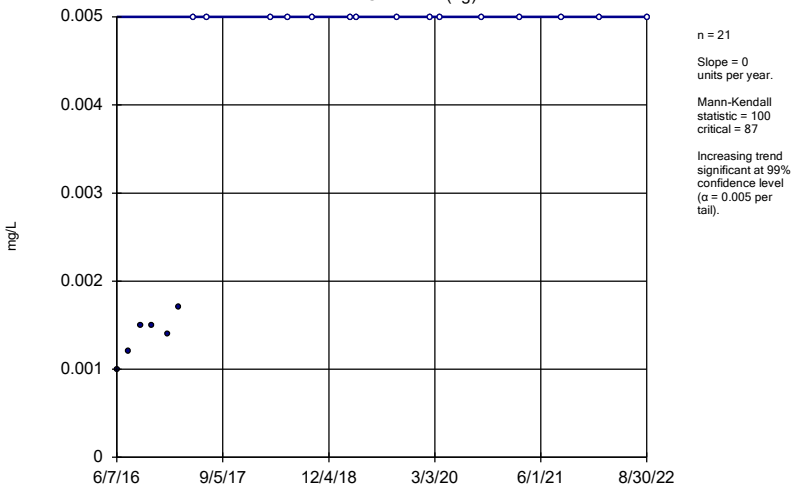
Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 21

Slope = 0
units per year.

Mann-Kendall
statistic = 100
critical = 87

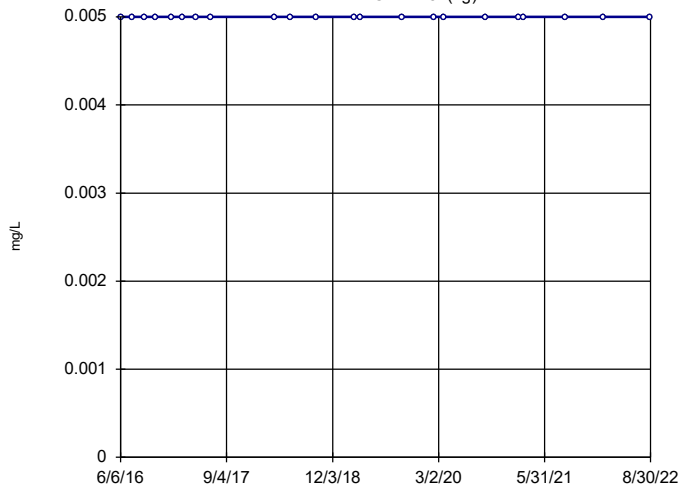
Increasing trend
significant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 22

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 92

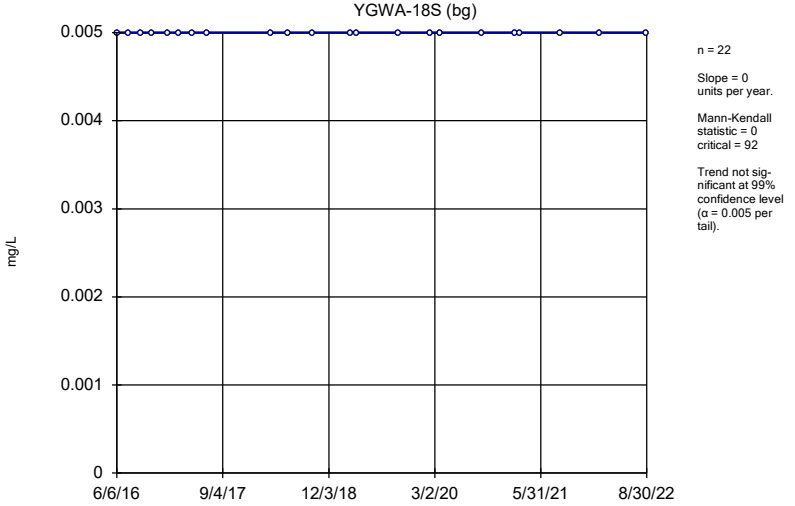
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 22

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 92

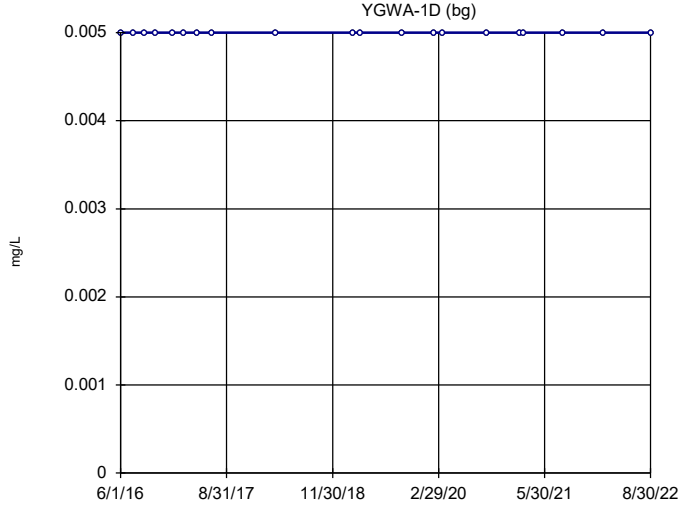
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 20

Slope = 0
units per year.

Mann-Kendall
statistic = 0
critical = 81

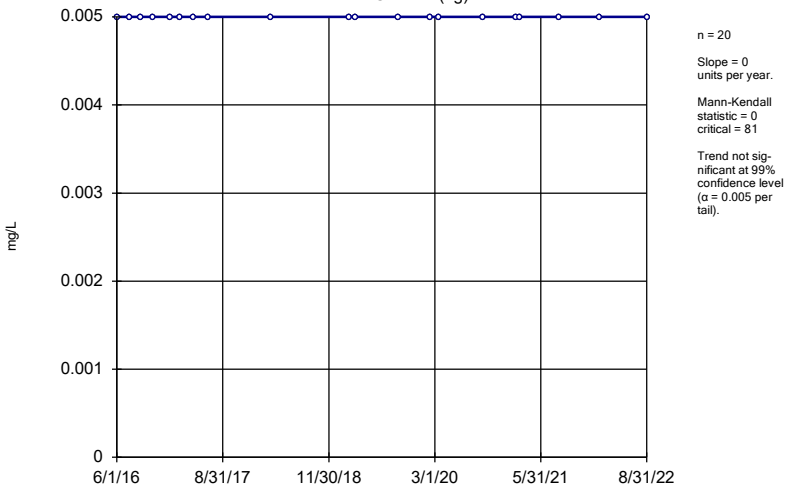
Trend not sig-
nificant at 99%
confidence level
(α = 0.005 per
tail).

Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 81

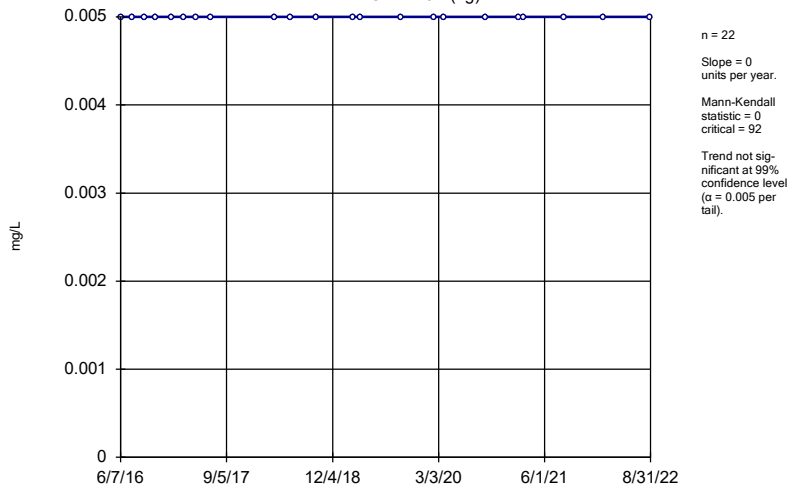
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 92

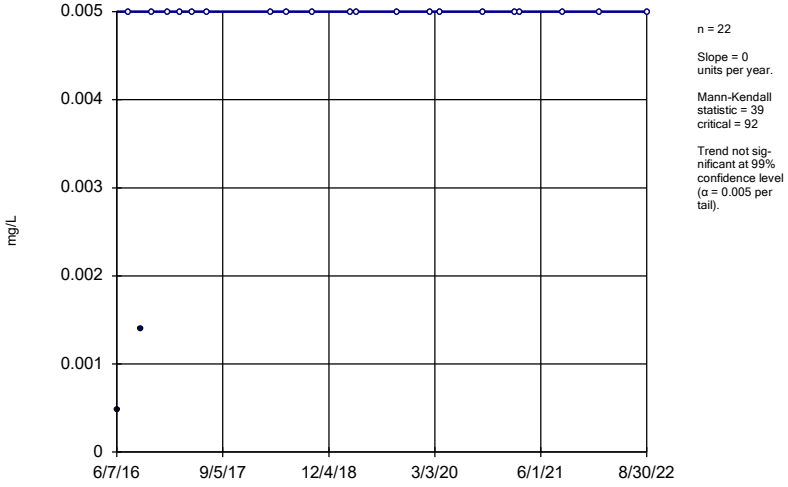
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 39 critical = 92

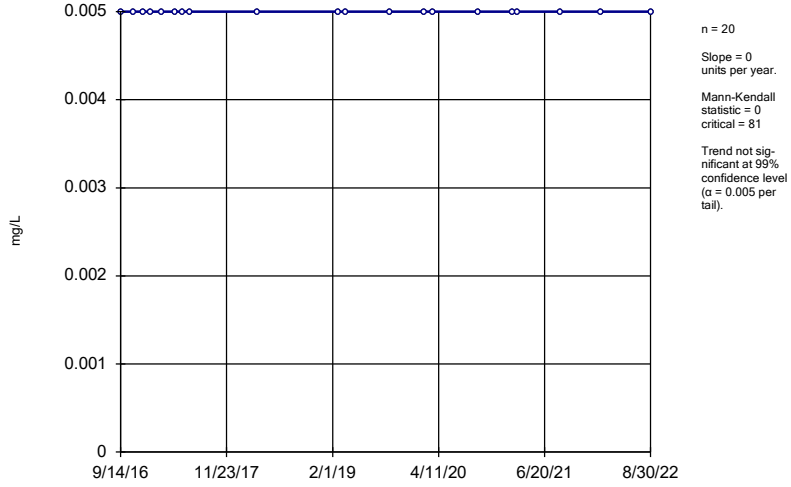
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 81

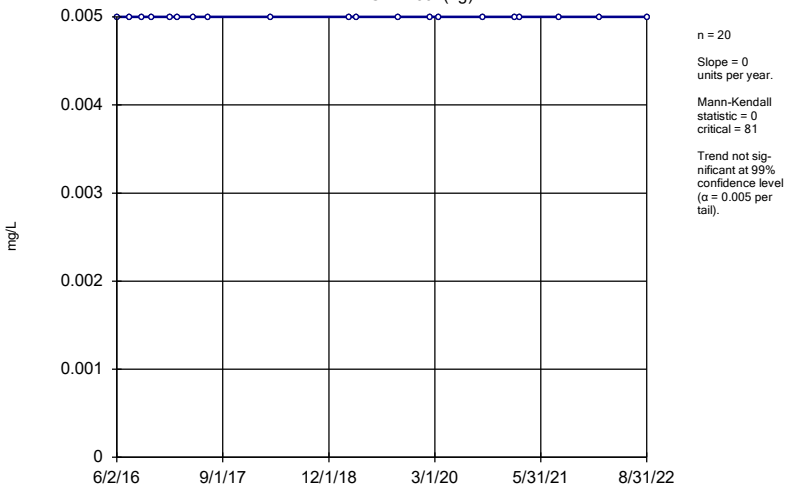
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

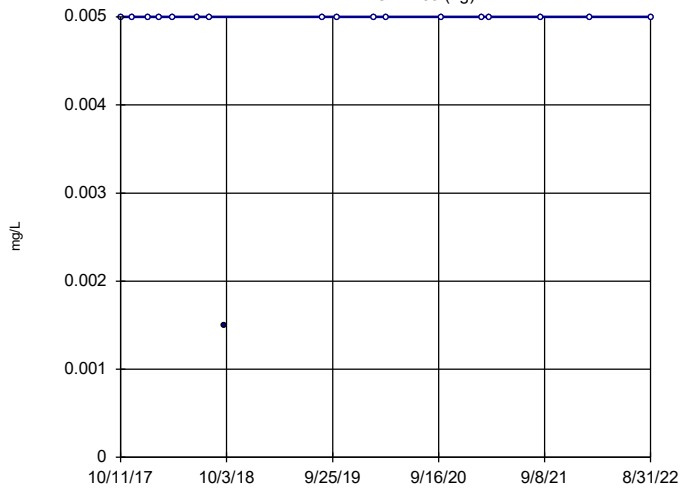
Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 3 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

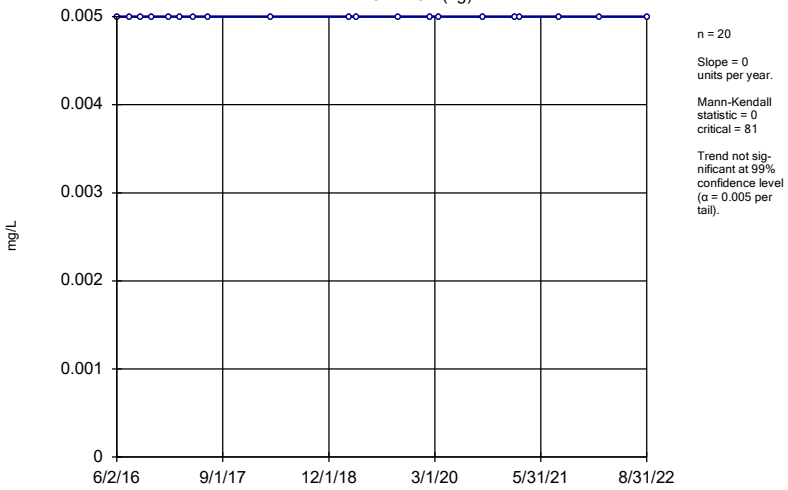
Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

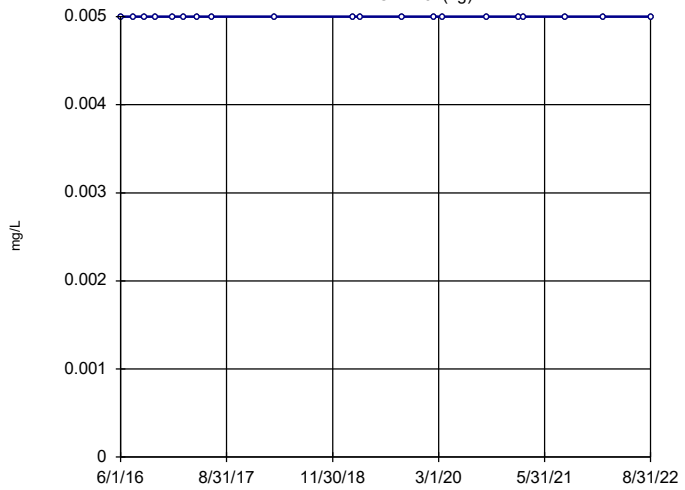
Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

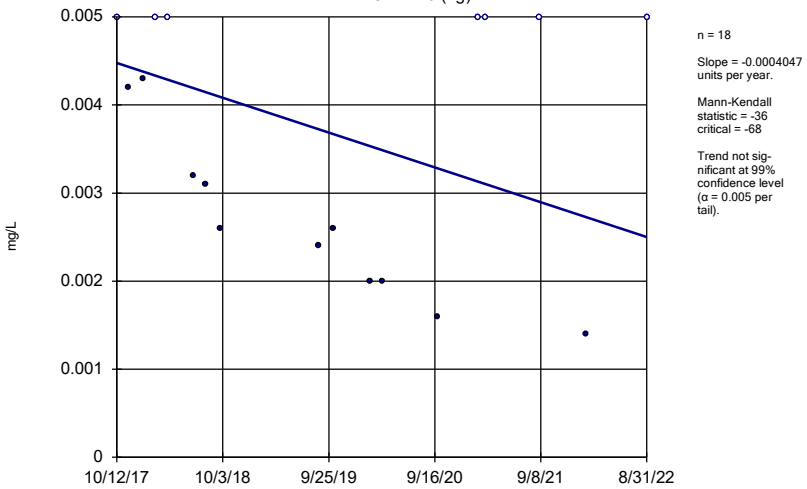
Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 18

Slope = -0.0004047 units per year.

Mann-Kendall statistic = -36
critical = -68

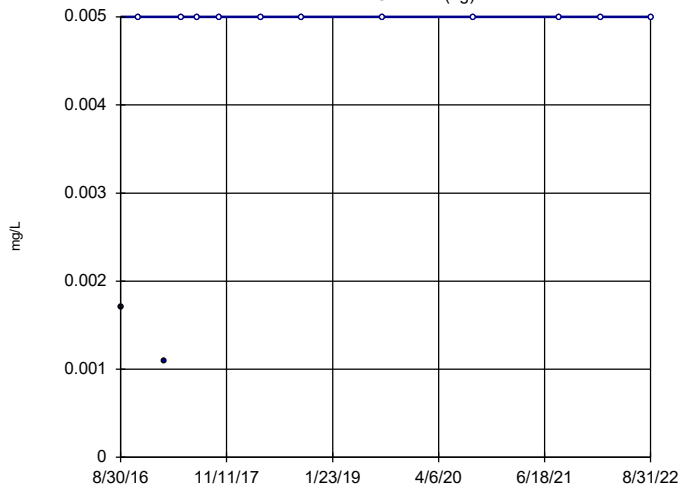
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 13

Slope = 0 units per year.

Mann-Kendall statistic = 19
critical = 43

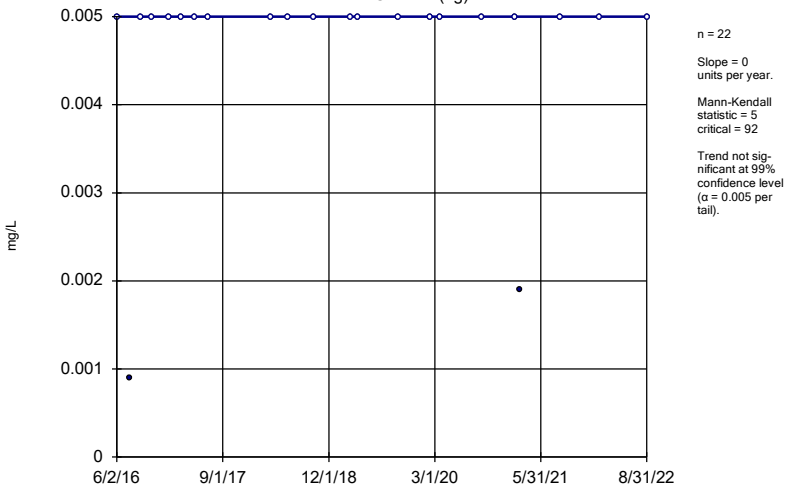
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 5
critical = 92

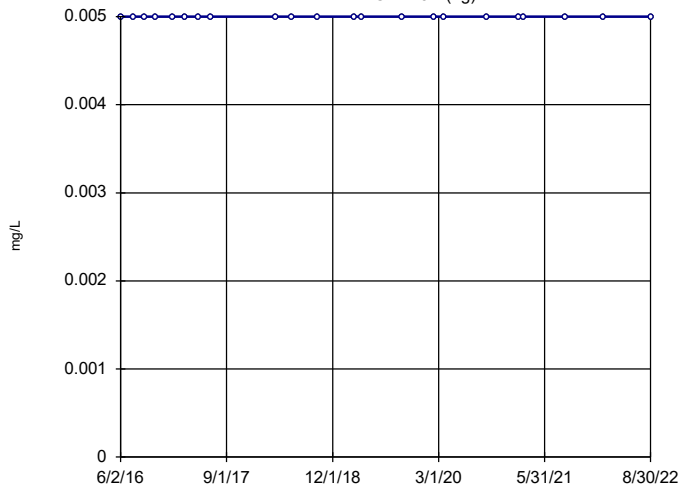
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

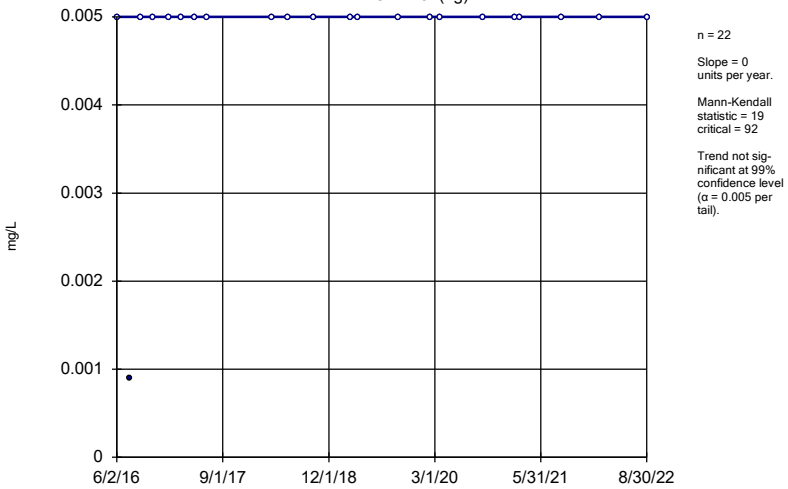
Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 19 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

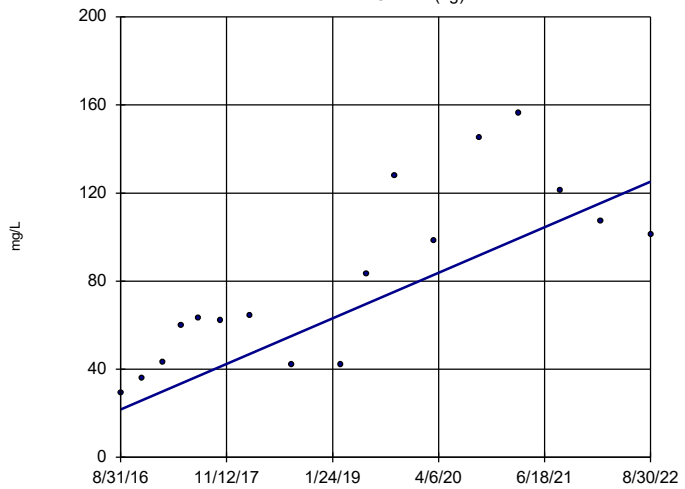
Constituent: Selenium Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

GWA-2 (bg)



n = 17

Slope = 17.26 units per year.

Mann-Kendall statistic = 87 critical = 63

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

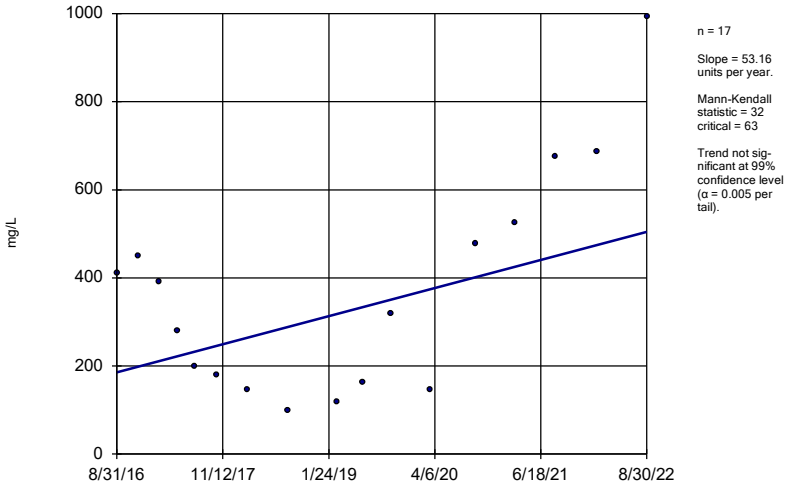
Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

GWC-1R



n = 17

Slope = 53.16 units per year.

Mann-Kendall statistic = 32 critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

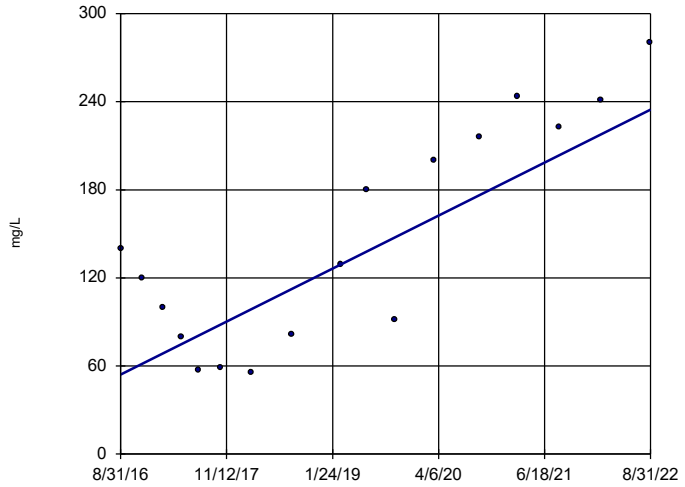
Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

GWC-2R



n = 17

Slope = 30.08 units per year.

Mann-Kendall statistic = 74 critical = 63

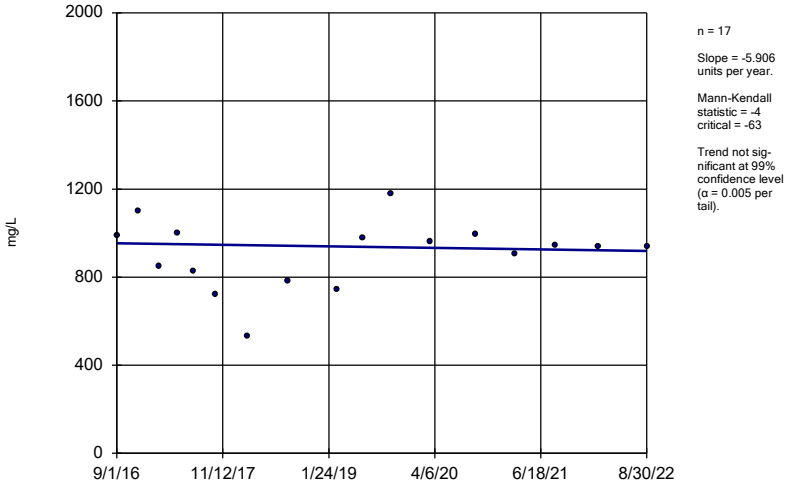
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

GWC-5R



n = 17

Slope = -5.906 units per year.

Mann-Kendall statistic = -4 critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

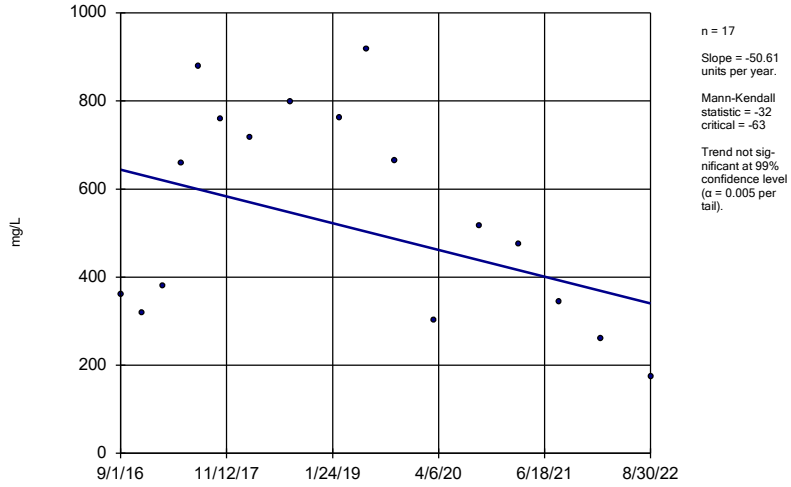
Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

GWC-6R



n = 17

Slope = -50.61 units per year.

Mann-Kendall statistic = -32 critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

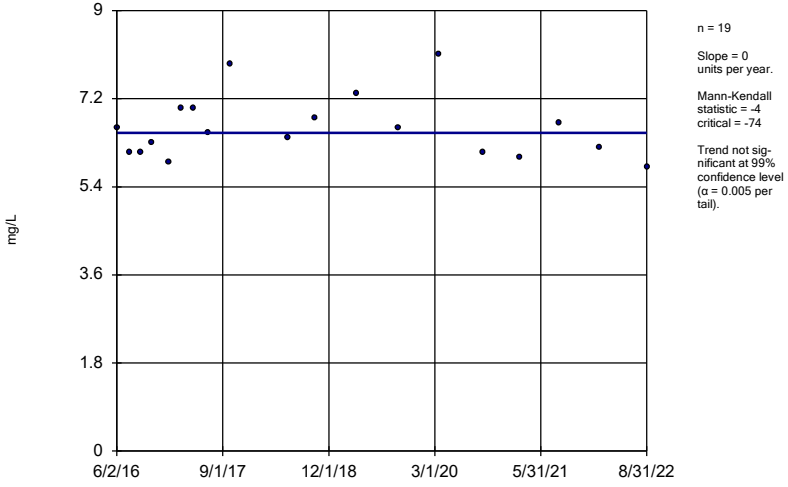
Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -4 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

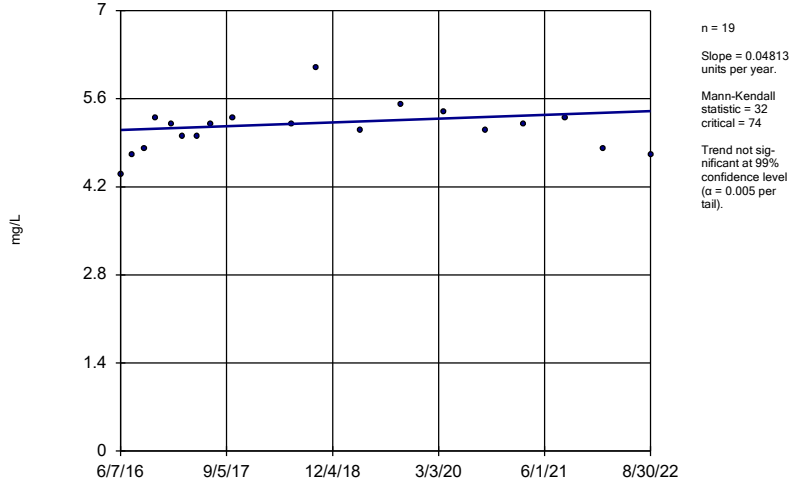
Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 19

Slope = 0.04813 units per year.

Mann-Kendall statistic = 32 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

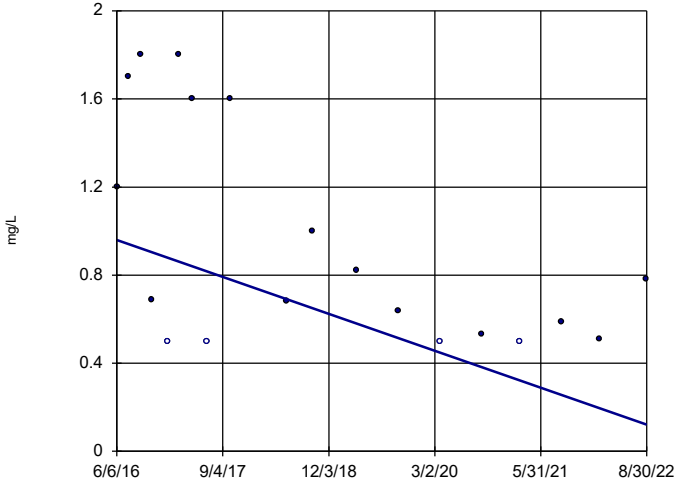
Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 19

Slope = -0.1345 units per year.

Mann-Kendall statistic = -67
critical = -74

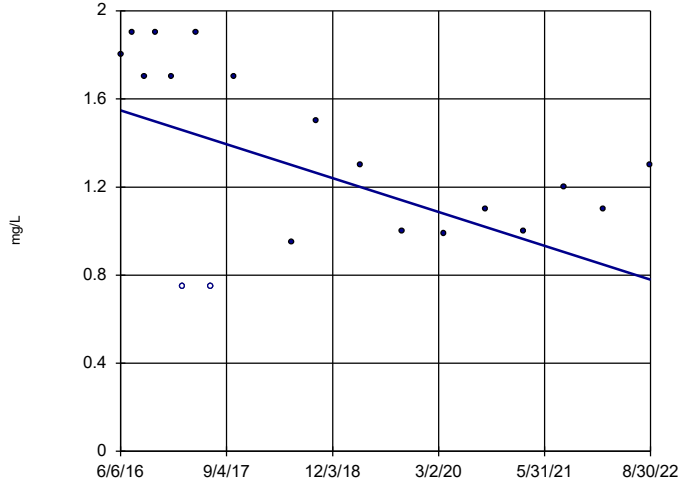
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 19

Slope = -0.1232 units per year.

Mann-Kendall statistic = -53
critical = -74

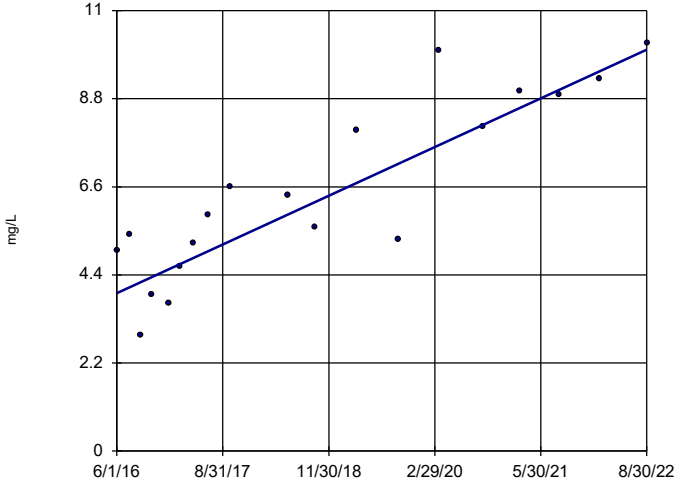
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 19

Slope = 0.9733 units per year.

Mann-Kendall statistic = 121
critical = 74

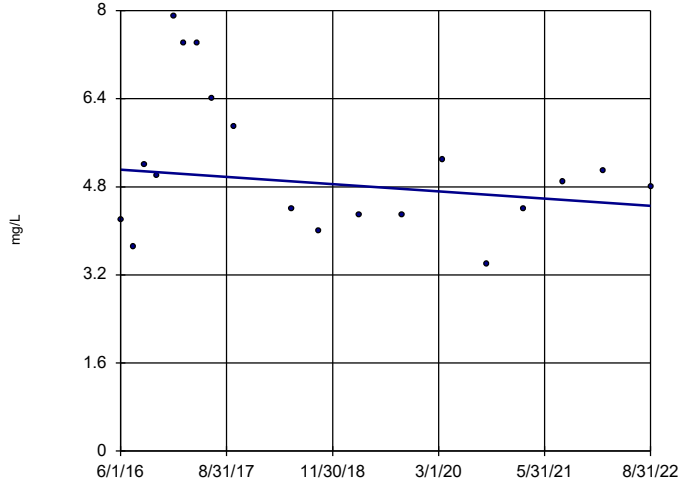
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-1I (bg)



n = 19

Slope = -0.1053 units per year.

Mann-Kendall statistic = -22
critical = -74

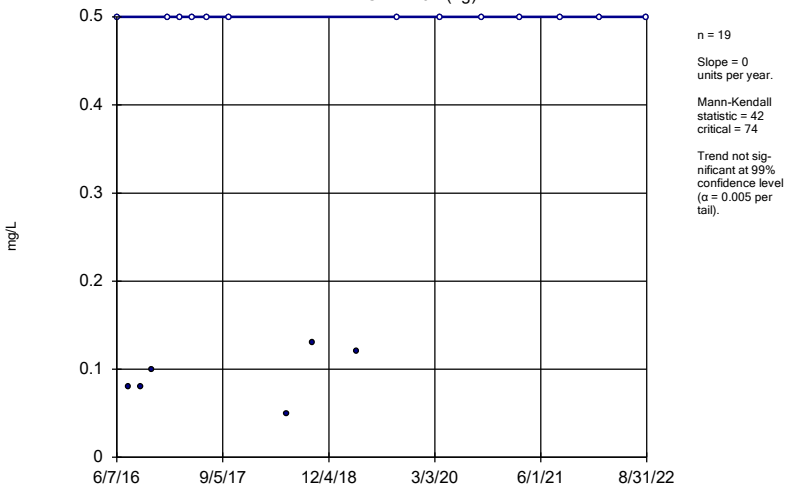
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 42 critical = 74

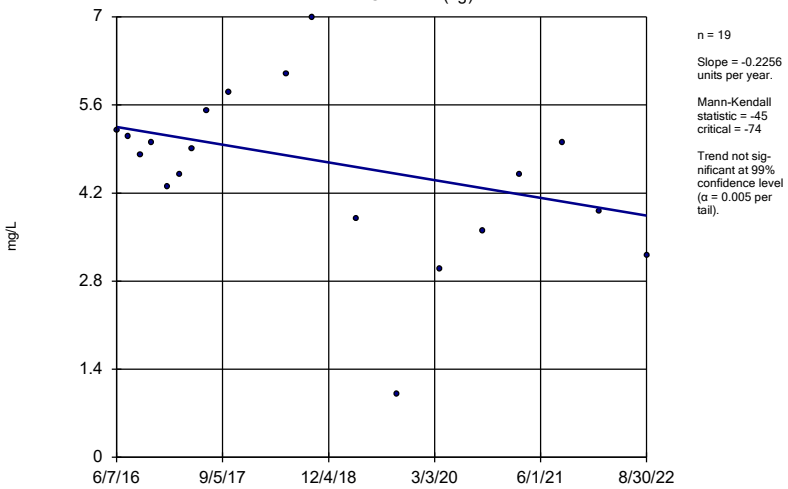
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 19

Slope = -0.2256 units per year.

Mann-Kendall statistic = -45 critical = -74

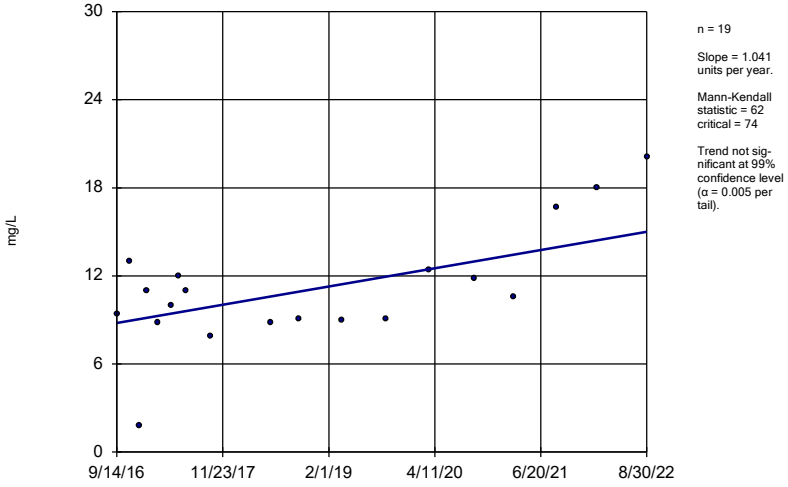
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 19

Slope = 1.041 units per year.

Mann-Kendall statistic = 62 critical = 74

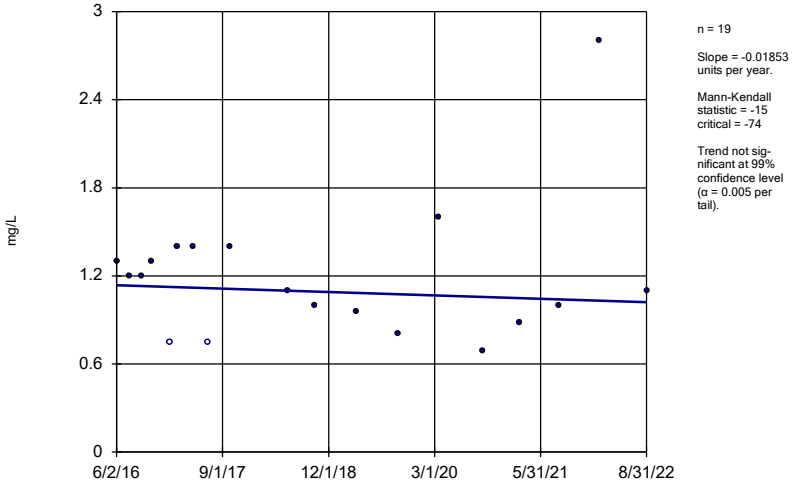
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 19

Slope = -0.01853 units per year.

Mann-Kendall statistic = -15 critical = -74

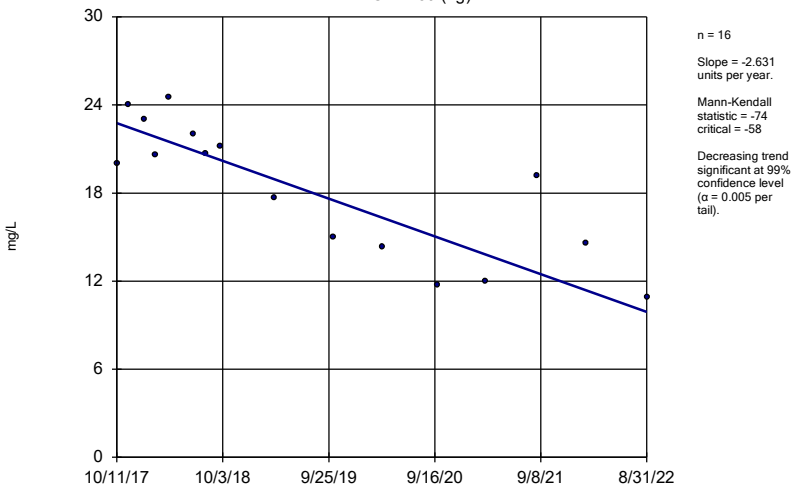
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 16

Slope = -2.631 units per year.

Mann-Kendall statistic = -74
critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

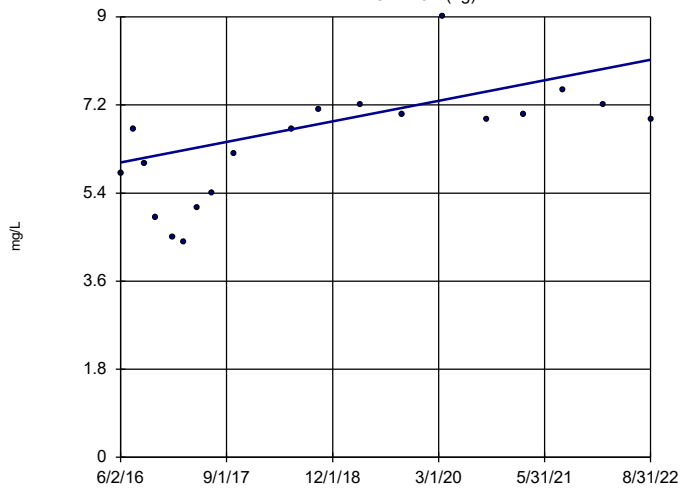
Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 19

Slope = 0.3364 units per year.

Mann-Kendall statistic = 89
critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

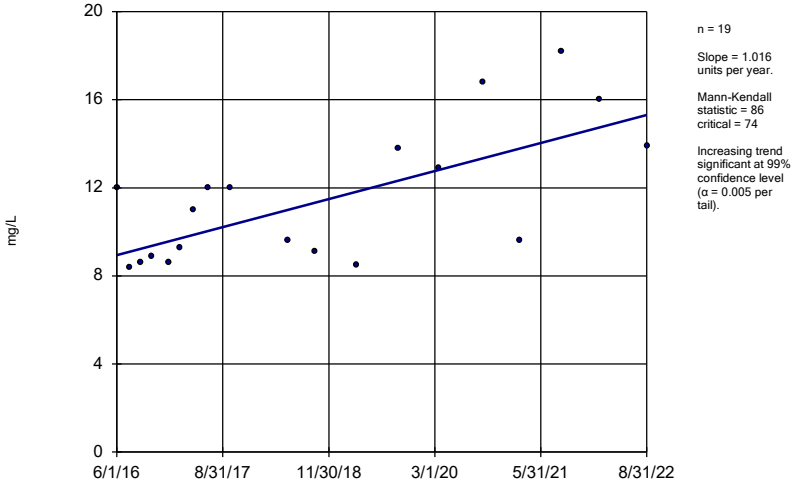
Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 19

Slope = 1.016 units per year.

Mann-Kendall statistic = 86
critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

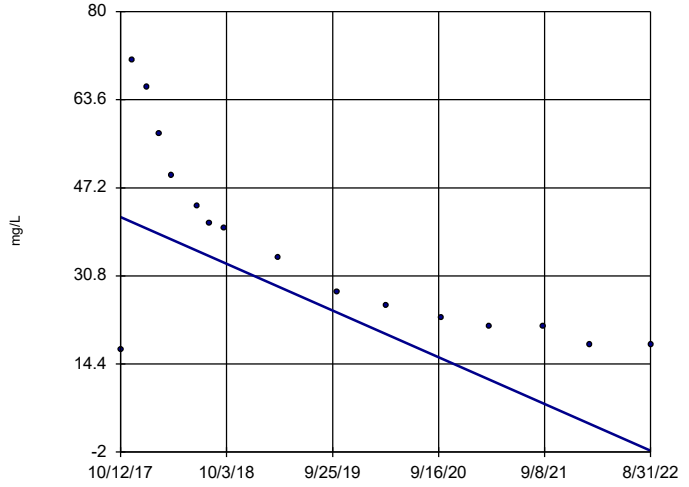
Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 16

Slope = -8.899 units per year.

Mann-Kendall statistic = -89
critical = -58

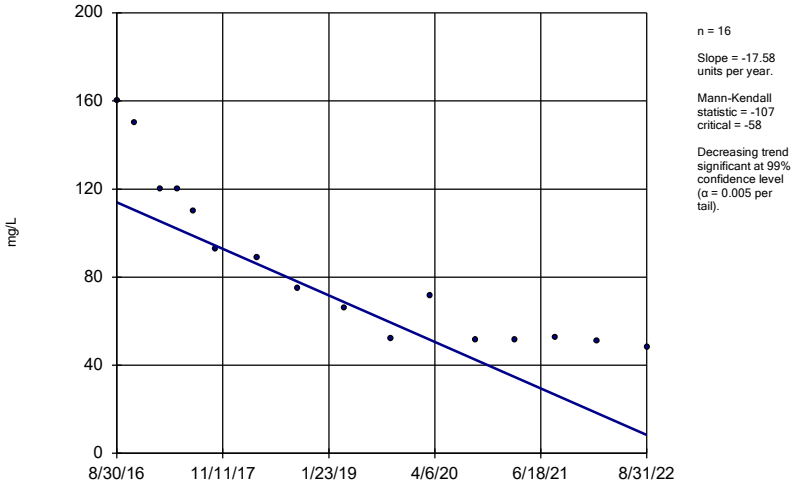
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-47 (bg)



n = 16

Slope = -17.58 units per year.

Mann-Kendall statistic = -107
critical = -58

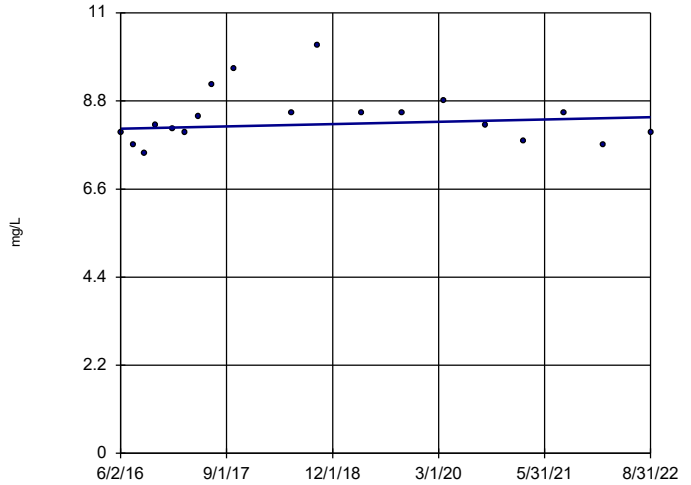
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 19

Slope = 0.04641 units per year.

Mann-Kendall statistic = 22
critical = 74

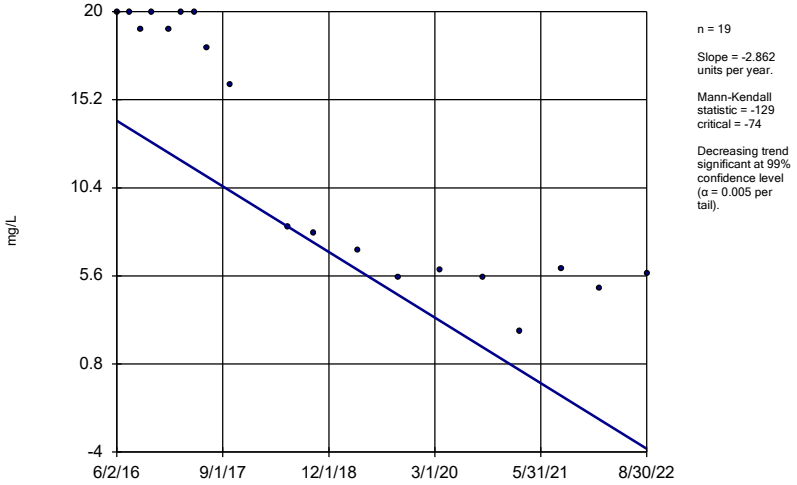
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 19

Slope = -2.862 units per year.

Mann-Kendall statistic = -129
critical = -74

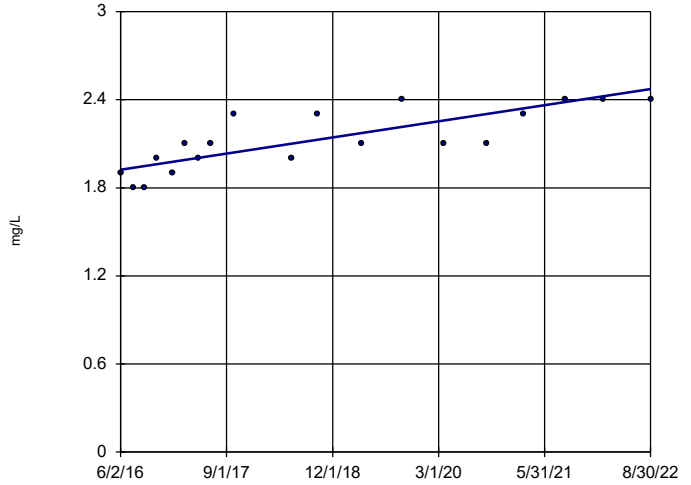
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 19

Slope = 0.08795 units per year.

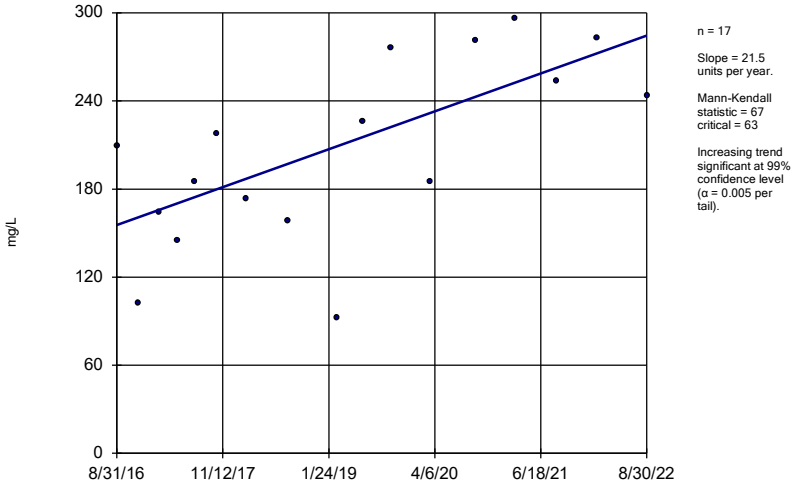
Mann-Kendall statistic = 115
critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 10/20/2022 2:21 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

GWA-2 (bg)



n = 17

Slope = 21.5 units per year.

Mann-Kendall statistic = 67
critical = 63

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

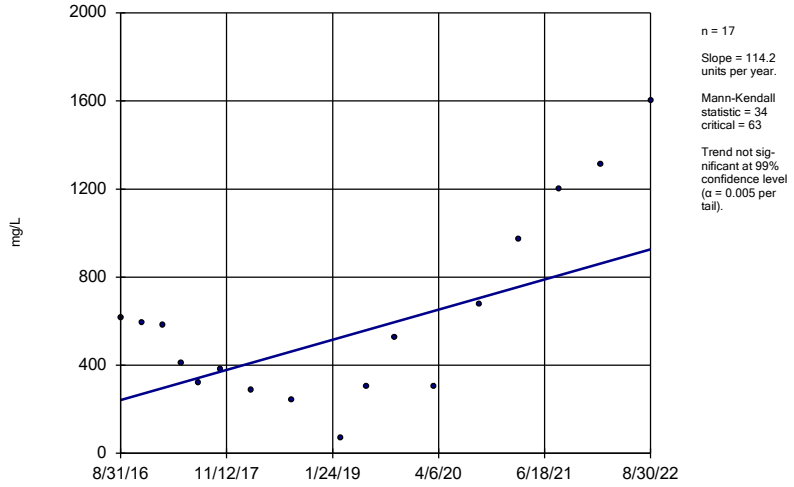
Constituent: TDS Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

GWC-1R



n = 17

Slope = 114.2 units per year.

Mann-Kendall statistic = 34
critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

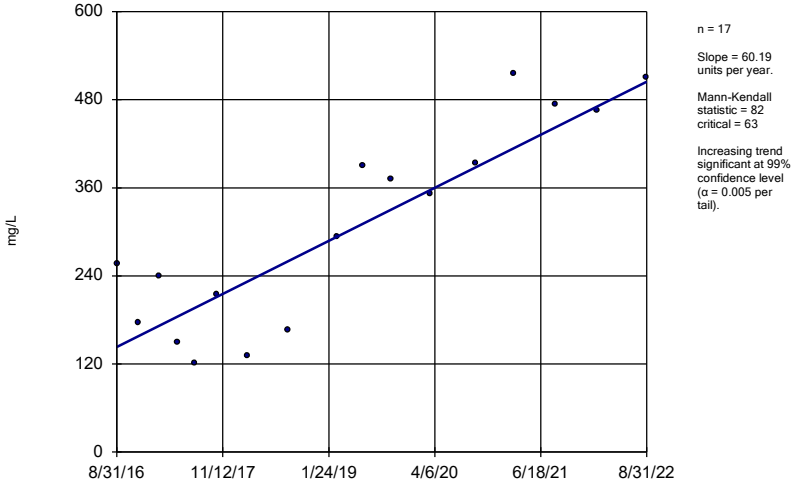
Constituent: TDS Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

GWC-2R



n = 17

Slope = 60.19 units per year.

Mann-Kendall statistic = 82
critical = 63

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

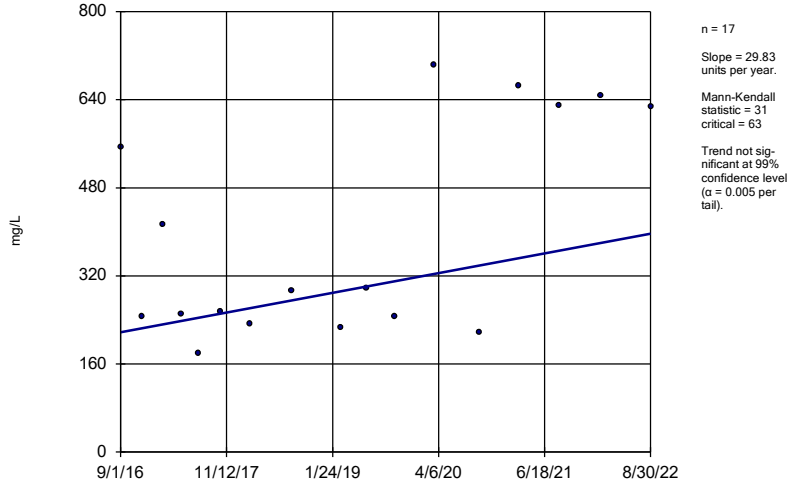
Constituent: TDS Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

GWC-4R



n = 17

Slope = 29.83 units per year.

Mann-Kendall statistic = 31
critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

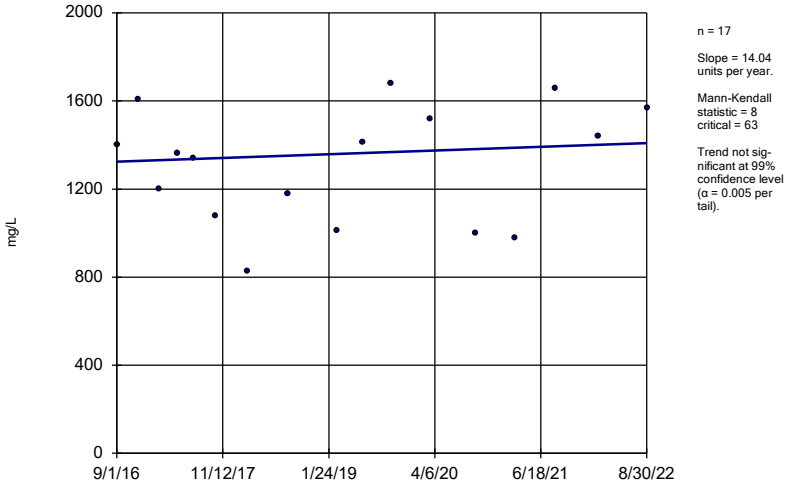
Constituent: TDS Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

GWC-5R



n = 17

Slope = 14.04 units per year.

Mann-Kendall statistic = 8 critical = 63

Trend not significant at 99% confidence level (α = 0.005 per tail).

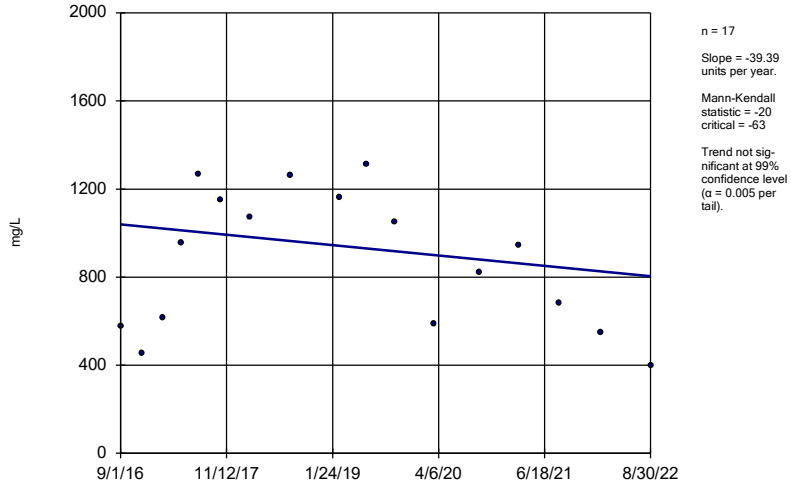
Constituent: TDS Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

GWC-6R



n = 17

Slope = -39.39 units per year.

Mann-Kendall statistic = -20 critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

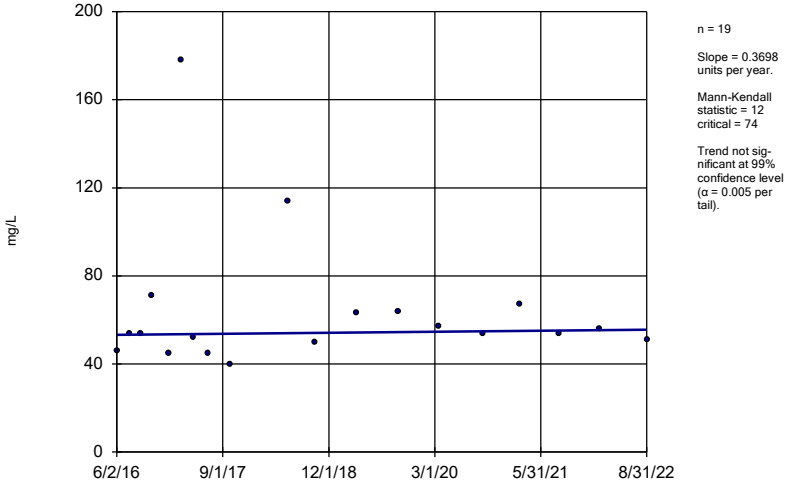
Constituent: TDS Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 19

Slope = 0.3698 units per year.

Mann-Kendall statistic = 12 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

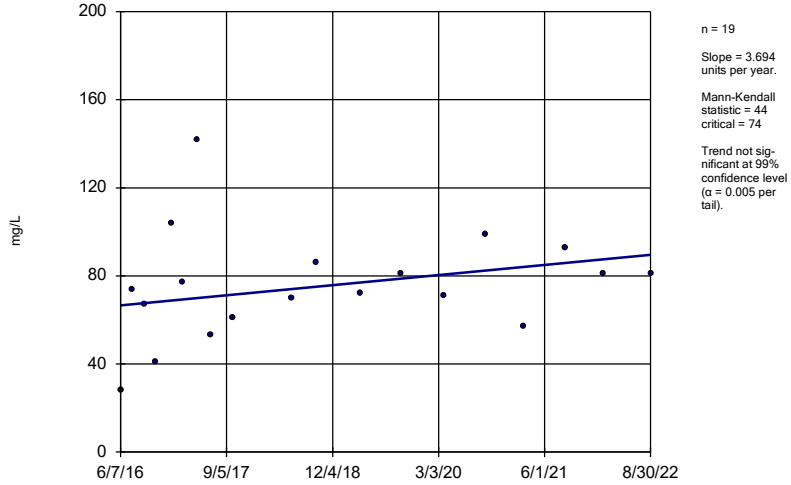
Constituent: TDS Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 19

Slope = 3.694 units per year.

Mann-Kendall statistic = 44 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

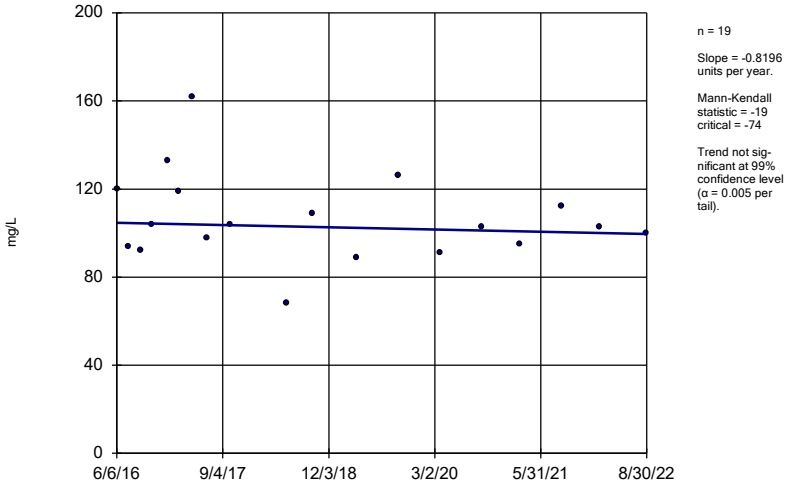
Constituent: TDS Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-18I (bg)



n = 19

Slope = -0.8196 units per year.

Mann-Kendall statistic = -19
critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

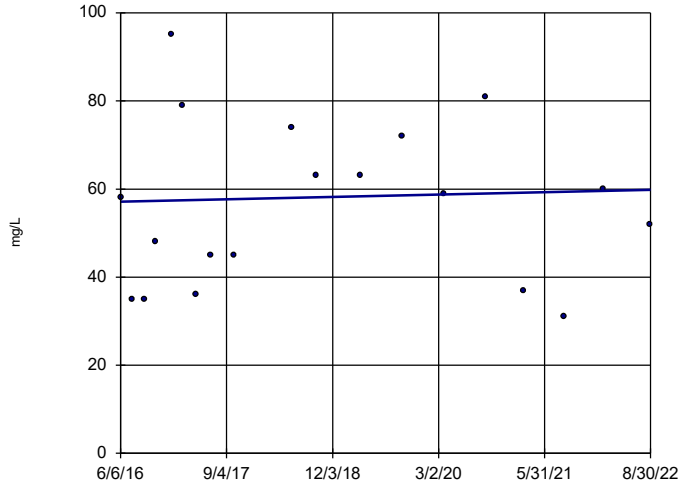
Constituent: TDS Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 19

Slope = 0.4345 units per year.

Mann-Kendall statistic = 10
critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

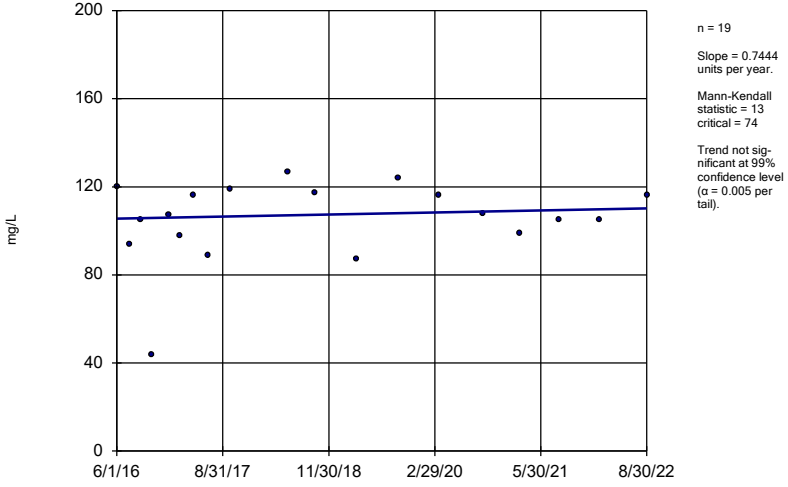
Constituent: TDS Analysis Run 10/20/2022 2:21 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 19

Slope = 0.7444 units per year.

Mann-Kendall statistic = 13
critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

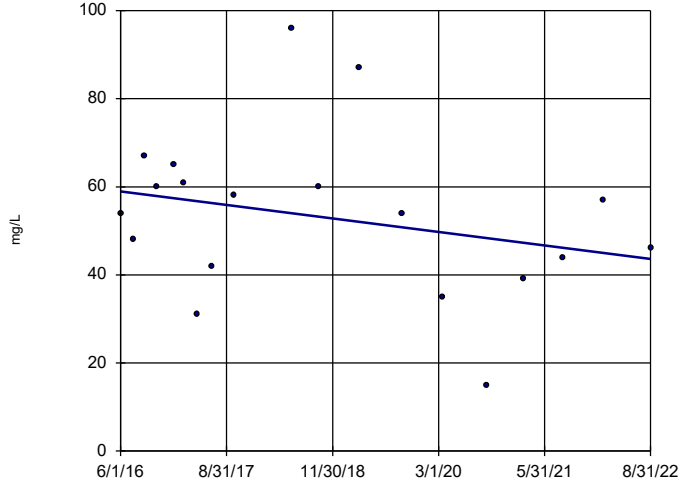
Constituent: TDS Analysis Run 10/20/2022 2:22 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-1I (bg)



n = 19

Slope = -2.443 units per year.

Mann-Kendall statistic = -37
critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

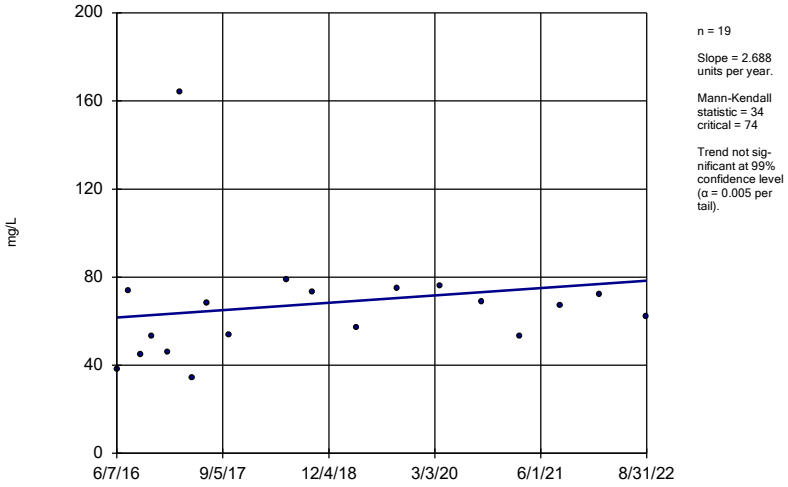
Constituent: TDS Analysis Run 10/20/2022 2:22 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-20S (bg)



n = 19

Slope = 2.688 units per year.

Mann-Kendall statistic = 34 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

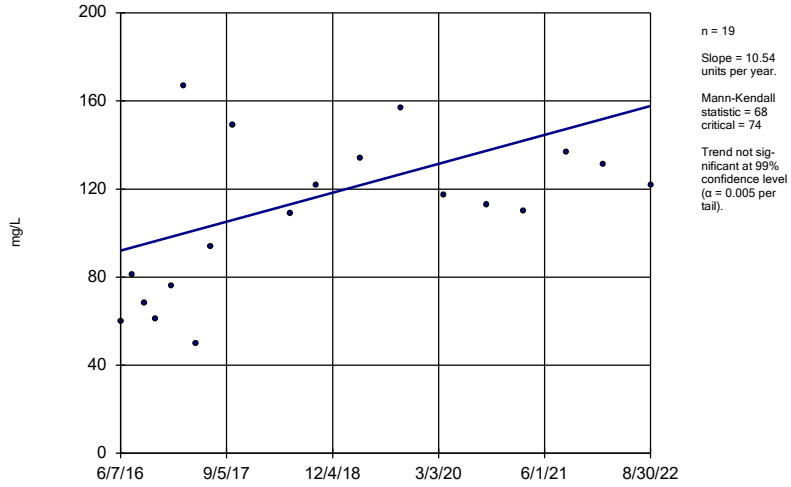
Constituent: TDS Analysis Run 10/20/2022 2:22 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 19

Slope = 10.54 units per year.

Mann-Kendall statistic = 68 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

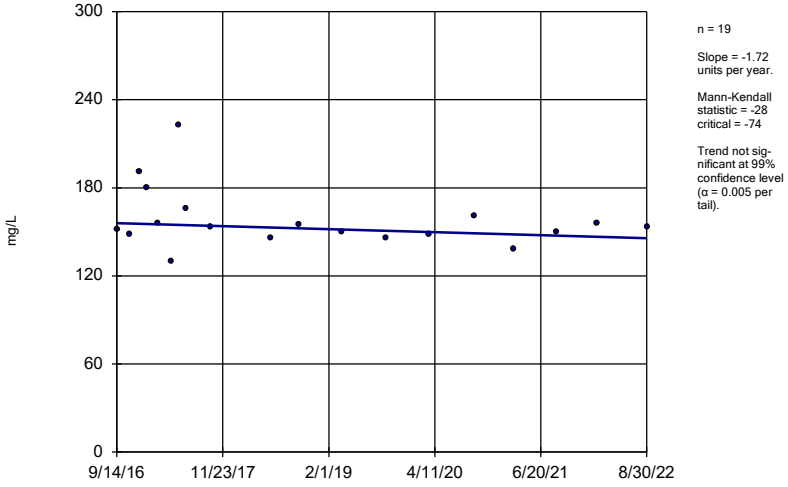
Constituent: TDS Analysis Run 10/20/2022 2:22 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 19

Slope = -1.72 units per year.

Mann-Kendall statistic = -28 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 10/20/2022 2:22 AM View: Trend Test

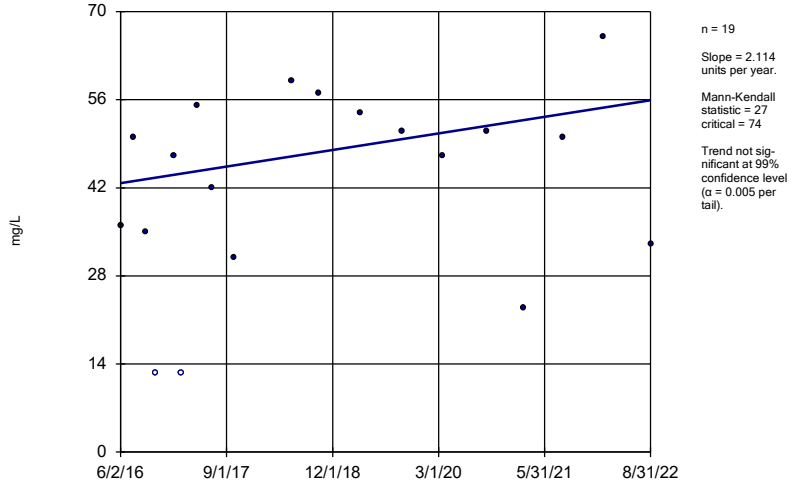
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 19

Slope = 2.114 units per year.

Mann-Kendall statistic = 27 critical = 74

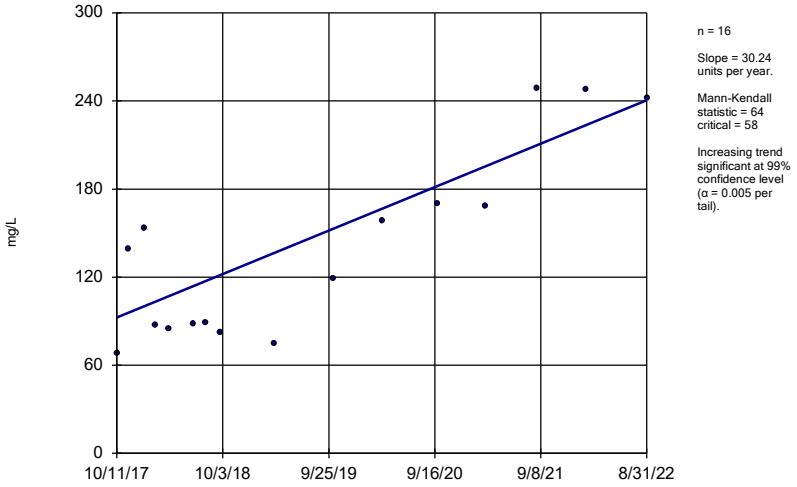
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 10/20/2022 2:22 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-39 (bg)



n = 16

Slope = 30.24 units per year.

Mann-Kendall statistic = 64
critical = 58

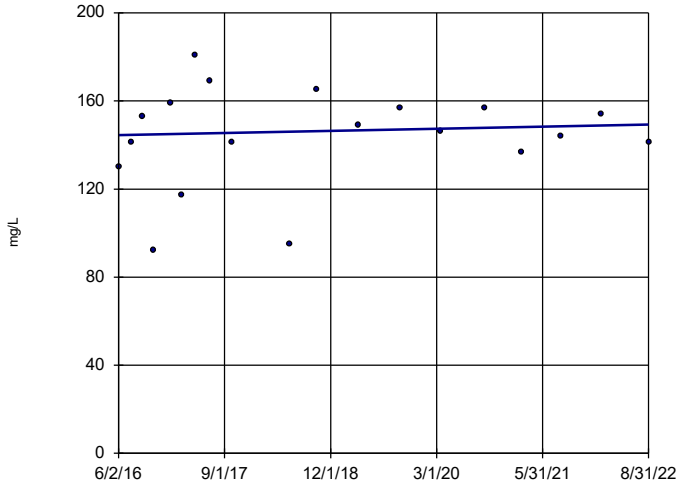
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 10/20/2022 2:22 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 19

Slope = 0.7739 units per year.

Mann-Kendall statistic = 9
critical = 74

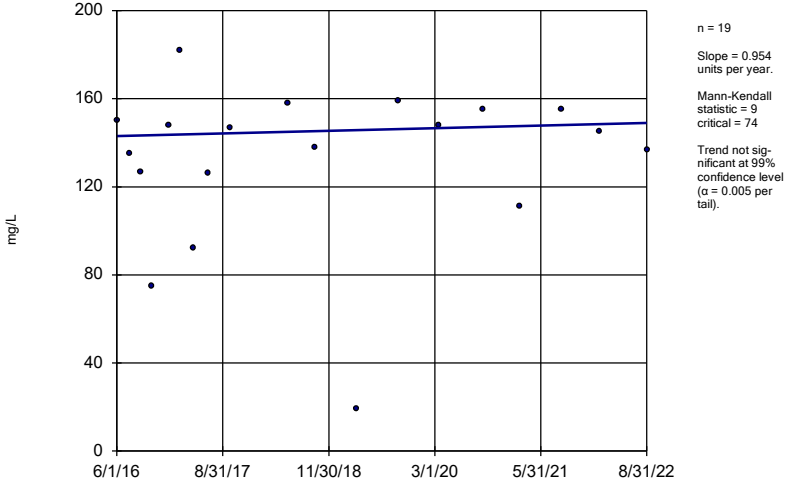
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 10/20/2022 2:22 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 19

Slope = 0.954 units per year.

Mann-Kendall statistic = 9
critical = 74

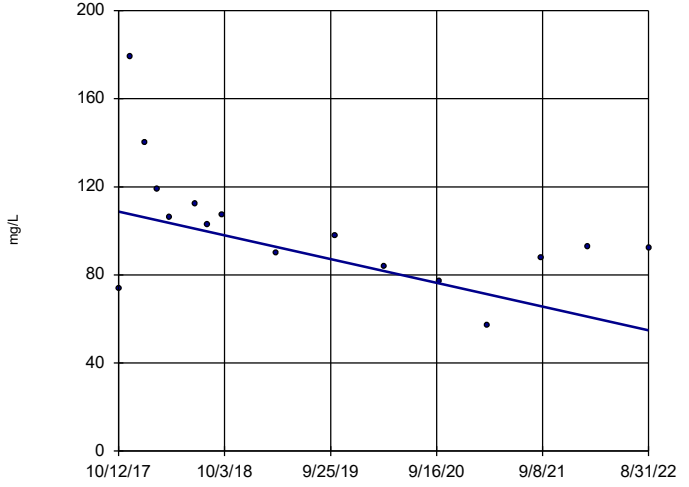
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 10/20/2022 2:22 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 16

Slope = -11.03 units per year.

Mann-Kendall statistic = -58
critical = -58

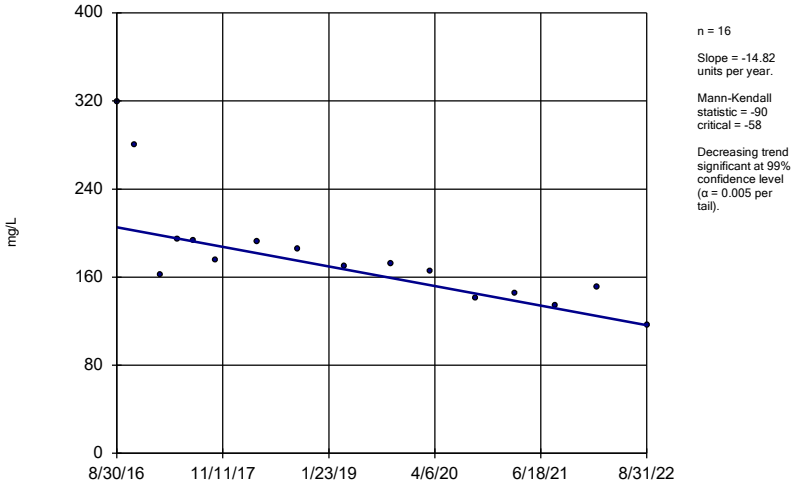
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 10/20/2022 2:22 AM View: Trend Test
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 16

Slope = -14.82 units per year.

Mann-Kendall statistic = -90 critical = -58

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

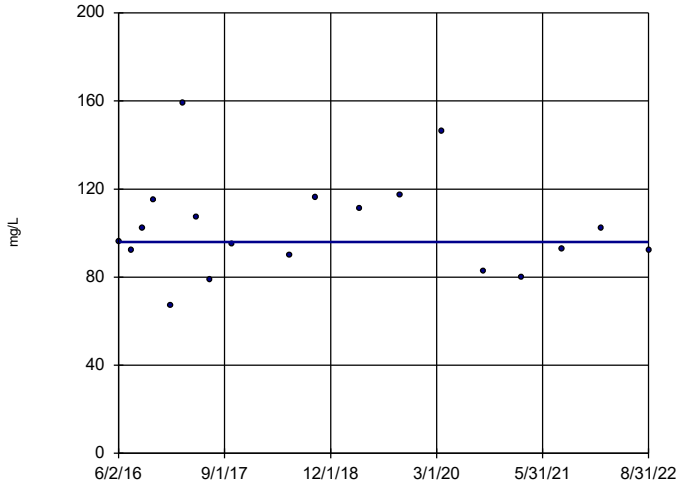
Constituent: TDS Analysis Run 10/20/2022 2:22 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -1 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

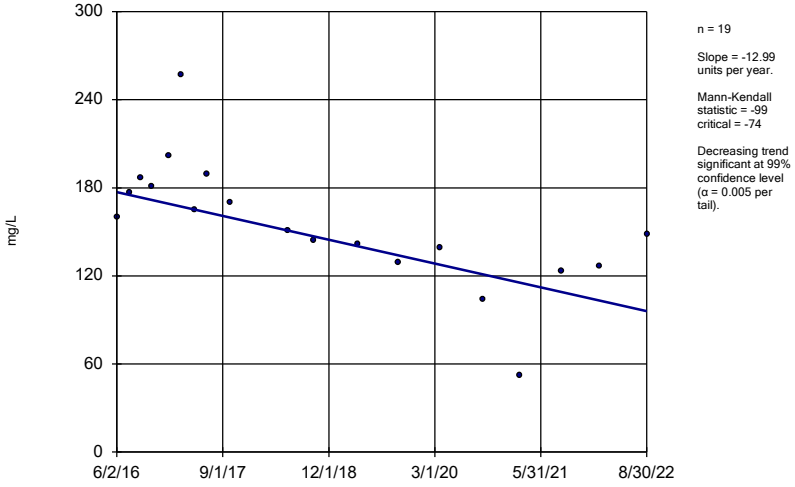
Constituent: TDS Analysis Run 10/20/2022 2:22 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 19

Slope = -12.99 units per year.

Mann-Kendall statistic = -99 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

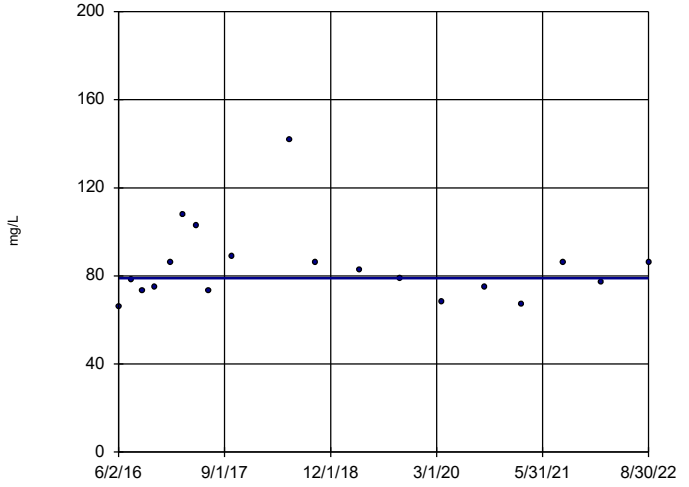
Constituent: TDS Analysis Run 10/20/2022 2:22 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 3 critical = 74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 10/20/2022 2:22 AM View: Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

FIGURE H.

Upper Tolerance Limit Summary Table

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/24/2022, 12:46 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0047	n/a	n/a	n/a	n/a	372	n/a	n/a	87.63	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	420	n/a	n/a	74.76	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.071	n/a	n/a	n/a	n/a	420	n/a	n/a	2.619	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	404	n/a	n/a	80.2	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.00063	n/a	n/a	n/a	n/a	404	n/a	n/a	95.54	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0093	n/a	n/a	n/a	n/a	372	n/a	n/a	80.11	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a	414	n/a	n/a	69.32	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	6.92	n/a	n/a	n/a	n/a	399	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	n/a	0.68	n/a	n/a	n/a	n/a	419	n/a	n/a	65.63	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	n/a	374	n/a	n/a	85.29	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a	399	n/a	n/a	26.32	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	n/a	0.00064	n/a	n/a	n/a	n/a	328	n/a	n/a	93.29	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	n/a	363	n/a	n/a	60.33	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	402	n/a	n/a	92.29	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	338	n/a	n/a	97.04	n/a	n/a	NaN	NP Inter(NDs)

FIGURE I.

YATES LANDFILL GYPSUM STACK GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0047	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.071	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.00063	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)	n/a	0.015	0.0013	0.0013
Lithium, Total (mg/L)	n/a	0.04	0.03	0.03
Mercury, Total (mg/L)	0.002		0.00064	0.002
Molybdenum, Total (mg/L)	n/a	0.1	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*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

FIGURE J.

Confidence Interval Summary Table - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/21/2022, 4:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	Transform	Alpha	Method
Antimony (mg/L)	GWC-2R	0.003	0.003	0.006	No	34	0.0002229	97.06	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-4R	0.003	0.0017	0.006	No	34	0.000758	85.29	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-5R	0.003	0.00054	0.006	No	29	0.0006648	93.1	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-1R	0.005	0.0035	0.01	No	29	0.001637	72.41	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-2R	0.005	0.0011	0.01	No	34	0.0009742	94.12	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-3R	0.005	0.0028	0.01	No	29	0.001418	79.31	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-4R	0.005	0.0013	0.01	No	34	0.001228	91.18	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-5R	0.005	0.0012	0.01	No	29	0.001849	44.83	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-6R	0.005	0.0023	0.01	No	35	0.001798	74.29	No	0.01	NP (normality)
Barium (mg/L)	GWC-1R	0.05862	0.04135	2	No	29	0.01885	0	No	0.01	Param.
Barium (mg/L)	GWC-2R	0.06373	0.0475	2	No	34	0.02368	0	ln(x)	0.01	Param.
Barium (mg/L)	GWC-3R	0.03407	0.01888	2	No	29	0.02337	0	x^(1/3)	0.01	Param.
Barium (mg/L)	GWC-4R	0.03779	0.0249	2	No	34	0.01687	0	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-5R	0.03084	0.01773	2	No	29	0.0174	0	ln(x)	0.01	Param.
Barium (mg/L)	GWC-6R	0.05498	0.03778	2	No	35	0.02085	0	No	0.01	Param.
Beryllium (mg/L)	GWC-1R	0.003	0.00013	0.004	No	29	0.001435	44.83	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-2R	0.003	0.00023	0.004	No	34	0.001341	67.65	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-3R	0.0011	0.0004	0.004	No	29	0.001093	24.14	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-4R	0.003	0.00011	0.004	No	34	0.001051	85.29	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-5R	0.003	0.00048	0.004	No	29	0.001267	24.14	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-1R	0.0005	0.00026	0.005	No	29	0.0001511	75.86	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-2R	0.0005	0.00016	0.005	No	34	0.00015	79.41	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-3R	0.0005	0.00021	0.005	No	29	0.0001545	58.62	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-4R	0.0005	0.00011	0.005	No	34	0.00009435	94.12	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-5R	0.00097	0.0005	0.005	No	29	0.0002849	27.59	No	0.01	NP (Cohens/xfrm)
Chromium (mg/L)	GWC-1R	0.005	0.0011	0.1	No	29	0.001902	41.38	No	0.01	NP (normality)
Chromium (mg/L)	GWC-2R	0.005	0.0017	0.1	No	34	0.001516	85.29	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-3R	0.0023	0.0011	0.1	No	29	0.001775	31.03	No	0.01	NP (normality)
Chromium (mg/L)	GWC-4R	0.005	0.0013	0.1	No	34	0.00153	82.35	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-5R	0.0028	0.0019	0.1	No	29	0.001147	17.24	No	0.01	NP (normality)
Chromium (mg/L)	GWC-6R	0.0028	0.0014	0.1	No	35	0.001671	31.43	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-1R	0.005	0.0008	0.035	No	29	0.00303	34.48	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-2R	0.02517	0.01526	0.035	No	34	0.01181	2.941	No	0.01	Param.
Cobalt (mg/L)	GWC-3R	0.0074	0.0041	0.035	No	29	0.002147	68.97	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-4R	0.004654	0.002487	0.035	No	34	0.002029	26.47	No	0.01	Param.
Cobalt (mg/L)	GWC-5R	0.005	0.00077	0.035	No	29	0.001966	75.86	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-6R	0.005	0.005	0.035	No	35	0.0006085	97.14	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GWC-1R	0.9498	0.5466	6.92	No	16	0.331	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2R	1.423	0.6662	6.92	No	16	0.5815	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-3R	1.003	0.2829	6.92	No	16	0.6621	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-4R	0.5824	0.2291	6.92	No	16	0.2715	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-5R	0.9013	0.283	6.92	No	16	0.4615	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-6R	1.046	0.452	6.92	No	16	0.5389	0	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GWC-1R	0.1	0.06	4	No	19	0.02028	78.95	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-2R	0.58	0.08	4	No	19	0.1149	73.68	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-3R	0.15	0.07	4	No	19	0.1182	36.84	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-4R	0.11	0.08	4	No	19	0.02216	73.68	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-5R	0.11	0.053	4	No	19	0.09221	47.37	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-6R	0.28	0.07	4	No	19	0.04915	73.68	No	0.01	NP (normality)
Lead (mg/L)	GWC-1R	0.001	0.000067	0.0013	No	29	0.0002425	93.1	No	0.01	NP (NDs)
Lead (mg/L)	GWC-2R	0.001	0.0001	0.0013	No	34	0.0003798	79.41	No	0.01	NP (NDs)
Lead (mg/L)	GWC-3R	0.001	0.00015	0.0013	No	29	0.0003968	75.86	No	0.01	NP (NDs)
Lead (mg/L)	GWC-4R	0.001	0.001	0.0013	No	34	0.0001645	97.06	No	0.01	NP (NDs)
Lead (mg/L)	GWC-5R	0.001	0.00019	0.0013	No	29	0.0003785	79.31	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-1R	0.0024	0.0013	0.03	No	17	0.01117	17.65	No	0.01	NP (normality)
Lithium (mg/L)	GWC-2R	0.0053	0.0035	0.03	No	17	0.01019	17.65	No	0.01	NP (normality)
Lithium (mg/L)	GWC-3R	0.03	0.0012	0.03	No	17	0.01268	76.47	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-4R	0.03	0.0011	0.03	No	17	0.01357	70.59	No	0.01	NP (normality)
Lithium (mg/L)	GWC-5R	0.03	0.0014	0.03	No	17	0.01466	47.06	No	0.01	NP (normality)
Lithium (mg/L)	GWC-6R	0.03	0.0018	0.03	No	17	0.01204	23.53	No	0.01	NP (normality)
Mercury (mg/L)	GWC-1R	0.0002	0.000059	0.002	No	29	0.00002618	96.55	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-2R	0.0002	0.0002	0.002	No	34	0.00002212	97.06	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-3R	0.0002	0.000064	0.002	No	29	0.0000615	89.66	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-4R	0.0002	0.00014	0.002	No	34	0.00002771	91.18	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-5R	0.0002	0.00006	0.002	No	29	0.000026	96.55	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-6R	0.0002	0.0002	0.002	No	35	0.00003848	94.29	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-1R	0.0066	0.0039	0.05	No	29	0.006342	44.83	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWC-2R	0.005	0.0032	0.05	No	34	0.001197	47.06	No	0.01	NP (normality)

Confidence Interval Summary Table - All Results (No Significant)

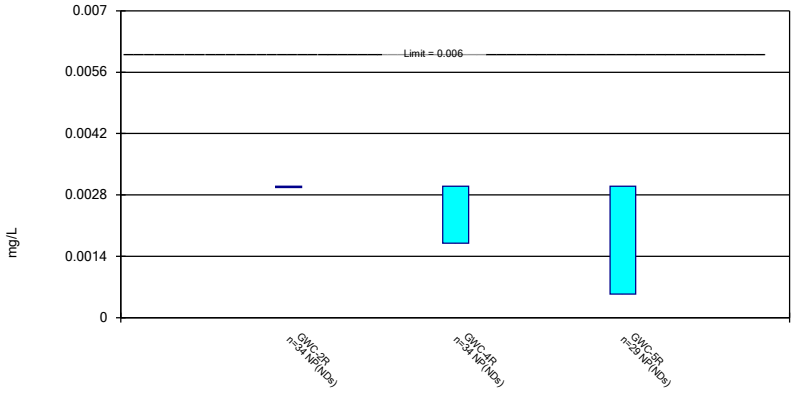
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 10/21/2022, 4:48 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Std. Dev.	%NDs	Transform	Alpha	Method
Selenium (mg/L)	GWC-3R	0.0057	0.0045	0.05	No	29	0.003261	37.93	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWC-4R	0.0054	0.0041	0.05	No	34	0.003502	23.53	No	0.01	NP (Cohens/xfrm)
Selenium (mg/L)	GWC-5R	0.02517	0.01716	0.05	No	29	0.008738	3.448	No	0.01	Param.
Selenium (mg/L)	GWC-6R	0.005	0.0037	0.05	No	35	0.001251	54.29	No	0.01	NP (normality)
Thallium (mg/L)	GWC-2R	0.001	0.001	0.002	No	32	0.0001644	96.88	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-5R	0.001	0.000053	0.002	No	28	0.000179	96.43	No	0.01	NP (NDs)

Sanitas™ v.9.6.35 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

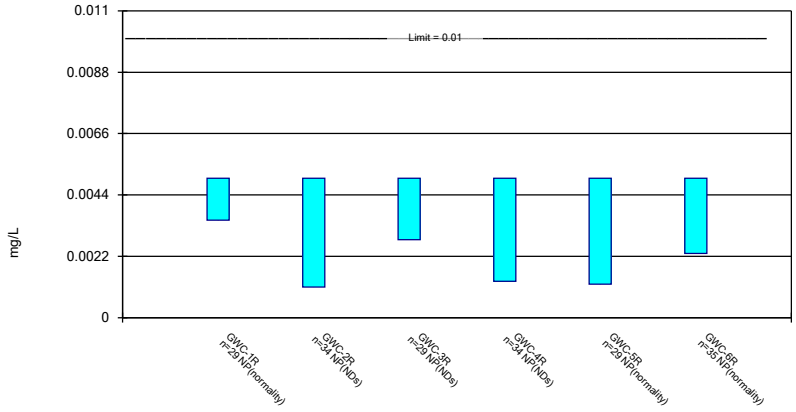


Constituent: Antimony Analysis Run 10/21/2022 4:44 PM View: Appendix IV - Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

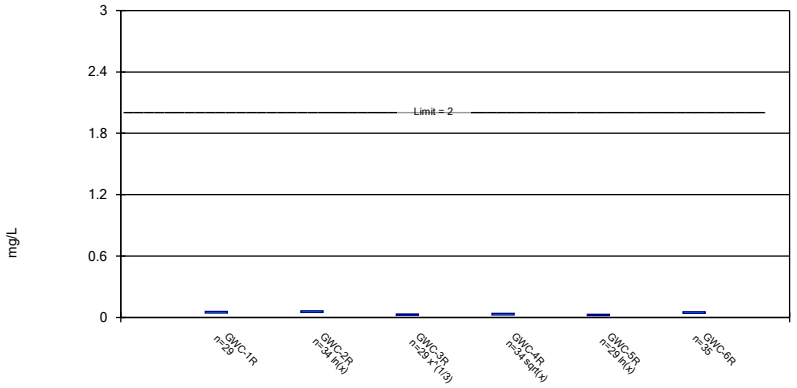


Constituent: Arsenic Analysis Run 10/21/2022 4:44 PM View: Appendix IV - Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

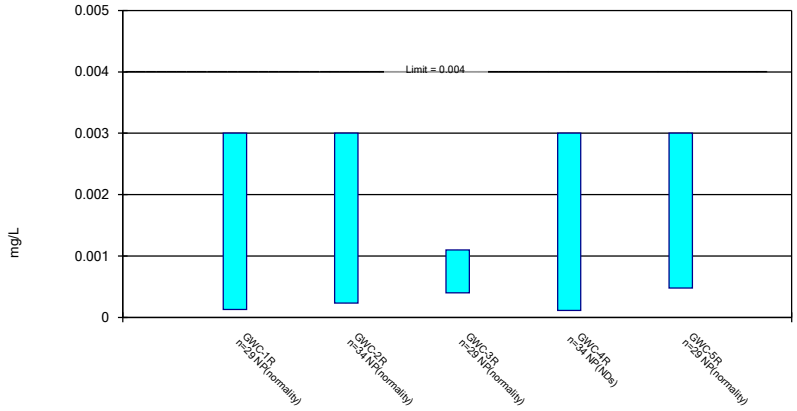


Constituent: Barium Analysis Run 10/21/2022 4:44 PM View: Appendix IV - Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

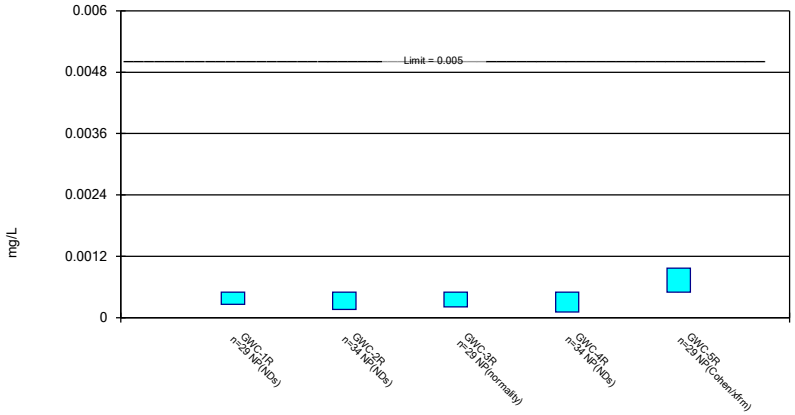


Constituent: Beryllium Analysis Run 10/21/2022 4:44 PM View: Appendix IV - Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



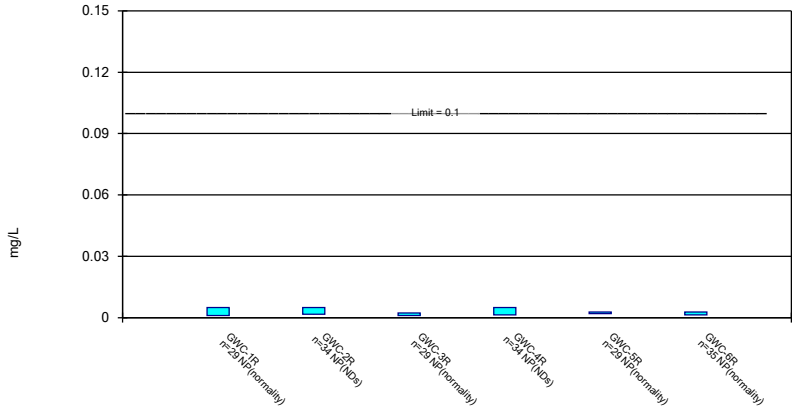
Constituent: Cadmium Analysis Run 10/21/2022 4:44 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



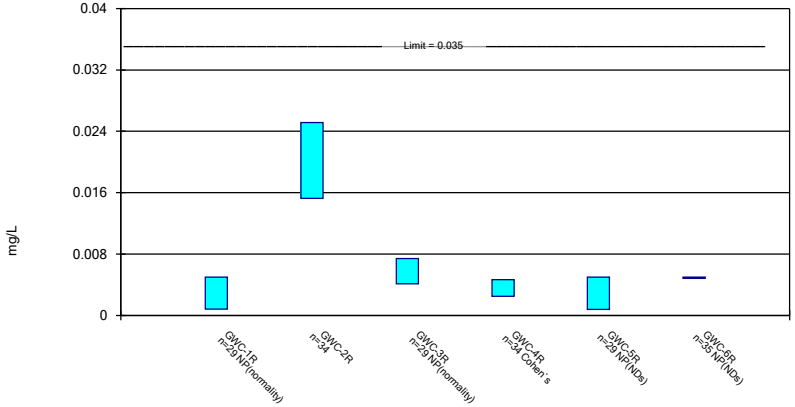
Constituent: Chromium Analysis Run 10/21/2022 4:44 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



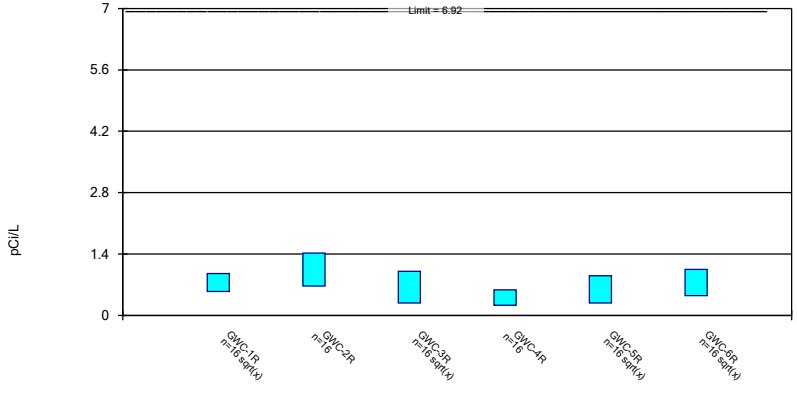
Constituent: Cobalt Analysis Run 10/21/2022 4:44 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



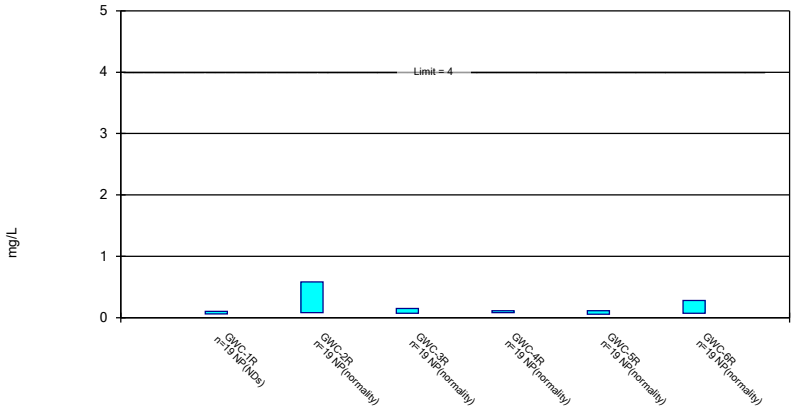
Constituent: Combined Radium 226 + 228 Analysis Run 10/21/2022 4:44 PM View: Appendix IV - Confide

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

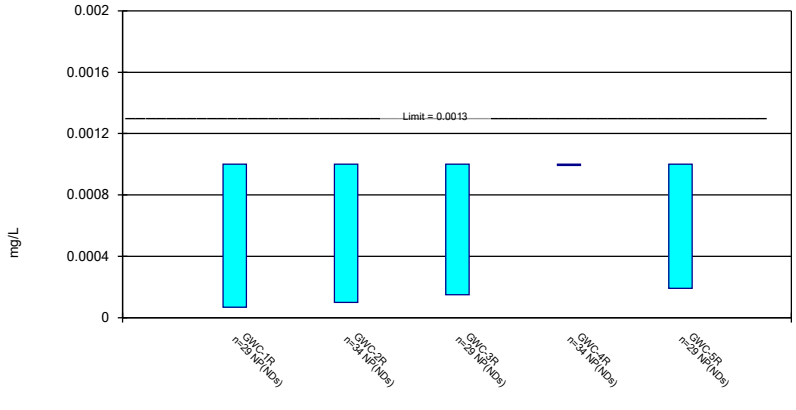


Constituent: Fluoride Analysis Run 10/21/2022 4:44 PM View: Appendix IV - Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

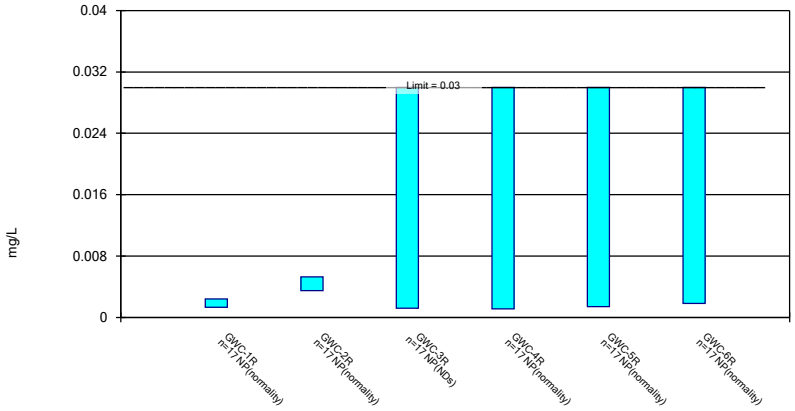


Constituent: Lead Analysis Run 10/21/2022 4:45 PM View: Appendix IV - Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

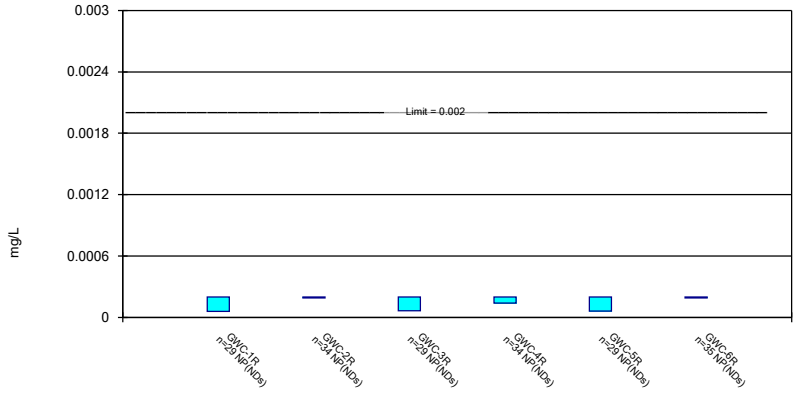


Constituent: Lithium Analysis Run 10/21/2022 4:45 PM View: Appendix IV - Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Non-Parametric Confidence Interval

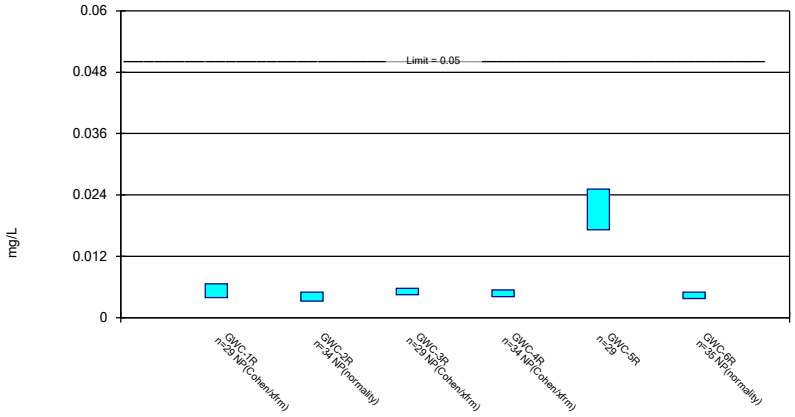
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 10/21/2022 4:45 PM View: Appendix IV - Confidence Interval
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.

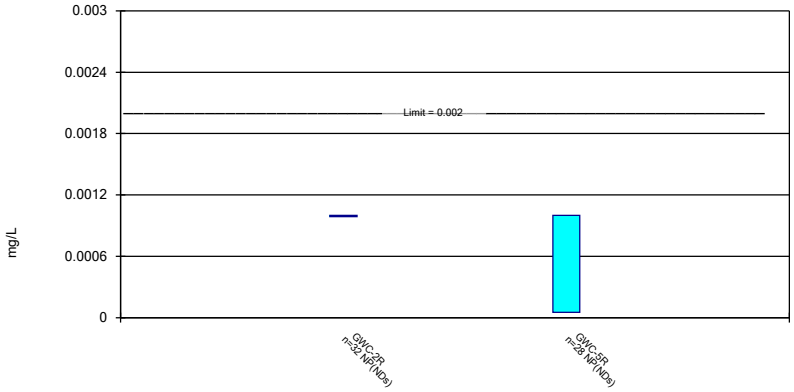


Constituent: Selenium Analysis Run 10/21/2022 4:45 PM View: Appendix IV - Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.35 . UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 10/21/2022 4:45 PM View: Appendix IV - Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-4R	GWC-5R
11/22/2010	<0.003	<0.003	
1/4/2011	<0.003	<0.003	
2/17/2011	<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
3/4/2012		<0.003	
3/5/2012			<0.003
3/6/2012	<0.003		
9/5/2012			<0.003
9/10/2012		<0.003	
9/11/2012	<0.003		
2/5/2013			<0.003
2/6/2013	<0.003	<0.003	
8/13/2013	<0.003		
8/14/2013		<0.003	<0.003
2/4/2014	<0.003	<0.003	
2/5/2014			<0.003
8/4/2014		<0.003	<0.003
8/5/2014	<0.003		
2/2/2015	<0.003	<0.003	
2/3/2015			<0.003
8/3/2015		<0.003 (D)	<0.003 (D)
8/4/2015	<0.003		
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

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-4R	GWC-5R
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
2/8/2022		0.0017 (J)	
2/9/2022	<0.003		<0.003
8/30/2022		0.00094 (J)	<0.003
8/31/2022	<0.003		
Mean	0.002962	0.002701	0.002822
Std. Dev.	0.0002229	0.000758	0.0006648
Upper Lim.	0.003	0.003	0.003
Lower Lim.	0.003	0.0017	0.00054

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	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
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
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
3/4/2012				<0.005		
3/5/2012	<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		
9/11/2012		<0.005				
2/5/2013	<0.005				<0.005	<0.005
2/6/2013		<0.005	<0.005	<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	
8/4/2014			<0.005	<0.005	<0.005	
8/5/2014	<0.005	<0.005				<0.005
2/2/2015	<0.005	<0.005		<0.005		
2/3/2015			<0.005		<0.005	<0.005
8/3/2015			<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
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)	

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
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
2/8/2022	0.0026 (J)		0.0015 (J)	0.0013 (J)		<0.005
2/9/2022		<0.005			0.0034 (J)	
8/30/2022	0.0035 (J)		<0.005	<0.005	0.0035 (J)	<0.005
8/31/2022		<0.005				
Mean	0.004063	0.00476	0.004304	0.004625	0.003112	0.003968
Std. Dev.	0.001637	0.0009742	0.001418	0.001228	0.001849	0.001798
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0035	0.0011	0.0028	0.0013	0.0012	0.0023

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	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
11/22/2010		0.12		0.03		
1/4/2011		0.1		0.065		
2/17/2011		0.1		0.061		
3/10/2011						0.017
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	0.086					0.019
3/4/2012				0.046		
3/5/2012	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				0.084		
9/11/2012		0.045				
2/5/2013	0.03				0.068	0.056
2/6/2013		0.05	0.0094	0.042		
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			0.066		0.044	
8/4/2014			0.043	0.027	0.058	
8/5/2014	0.048	0.068				0.041
2/2/2015	0.069	0.066		0.02		
2/3/2015			0.031		0.033	0.04
8/3/2015			0.039 (D)	0.017 (D)	0.037 (D)	
8/4/2015	0.023 (D)	0.053				0.042
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	

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
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
2/8/2022	0.066		0.013	0.031		0.03
2/9/2022		0.038			0.011	
8/30/2022	0.058		0.01	0.022	0.01	0.028
8/31/2022		0.026				
Mean	0.04998	0.05869	0.02945	0.03286	0.02795	0.04638
Std. Dev.	0.01885	0.02368	0.02337	0.01687	0.0174	0.02085
Upper Lim.	0.05862	0.06373	0.03407	0.03779	0.03084	0.05498
Lower Lim.	0.04135	0.0475	0.01888	0.0249	0.01773	0.03778

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
11/22/2010		<0.003		<0.003	
1/4/2011		<0.003		<0.003	
2/17/2011		<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				
3/4/2012				<0.003	
3/5/2012	<0.003		<0.003		<0.003
3/6/2012		<0.003			
9/5/2012	<0.003		<0.003		<0.003
9/10/2012				<0.003	
9/11/2012		<0.003			
2/5/2013	<0.003				<0.003
2/6/2013		<0.003	<0.003	<0.003	
8/13/2013	<0.003	<0.003	<0.003		
8/14/2013				<0.003	<0.003
2/4/2014	<0.003	<0.003		<0.003	
2/5/2014			<0.003		<0.003
8/4/2014			0.0011 (J)	<0.003	0.00026 (J)
8/5/2014	7.5E-05 (J)	<0.003			
2/2/2015	0.00023 (J)	<0.003		<0.003	
2/3/2015			0.00061 (J)		0.00023 (J)
8/3/2015			0.00051 (JD)	<0.003 (D)	0.00046 (JD)
8/4/2015	<0.003 (D)	<0.003			
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)			

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
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
2/8/2022	0.00032 (J)		0.001	8.5E-05 (J)	
2/9/2022		0.00023 (J)			0.0036
8/30/2022	0.00037 (J)		0.00056	7.2E-05 (J)	0.0032
8/31/2022		0.00023 (J)			
Mean	0.001438	0.002087	0.001145	0.00257	0.001893
Std. Dev.	0.001435	0.001341	0.001093	0.001051	0.001267
Upper Lim.	0.003	0.003	0.0011	0.003	0.003
Lower Lim.	0.00013	0.00023	0.0004	0.00011	0.00048

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
11/22/2010		<0.0005		<0.0005	
1/4/2011		<0.0005		<0.0005	
2/17/2011		<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				
3/4/2012				<0.0005	
3/5/2012	<0.0005		<0.0005		<0.0005
3/6/2012		<0.0005			
9/5/2012	<0.0005		<0.0005		<0.0005
9/10/2012				<0.0005	
9/11/2012		<0.0005			
2/5/2013	<0.0005				<0.0005
2/6/2013		<0.0005	<0.0005	<0.0005	
8/13/2013	<0.0005	<0.0005	<0.0005		
8/14/2013				<0.0005	<0.0005
2/4/2014	<0.0005	<0.0005		<0.0005	
2/5/2014			<0.0005		<0.0005
8/4/2014			0.00034 (J)	<0.0005	0.00045 (J)
8/5/2014	<0.0005	<0.0005			
2/2/2015	<0.0005	<0.0005		<0.0005	
2/3/2015			<0.0005		<0.0005
8/3/2015			<0.0005 (D)	<0.0005 (D)	0.00046 (JD)
8/4/2015	<0.0005 (D)	<0.0005			
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			

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
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
2/8/2022	0.00019 (J)		0.00018 (J)	<0.0005	
2/9/2022		<0.0005			0.001
8/30/2022	0.00026 (J)		0.00016 (J)	0.00011 (J)	0.00098
8/31/2022		0.00012 (J)			
Mean	0.0004176	0.000425	0.0003793	0.0004768	0.0006959
Std. Dev.	0.0001511	0.00015	0.0001545	9.435E-05	0.0002849
Upper Lim.	0.0005	0.0005	0.0005	0.0005	0.00097
Lower Lim.	0.00026	0.00016	0.00021	0.00011	0.0005

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	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
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
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					0.0018
3/4/2012				<0.005		
3/5/2012	<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		
9/11/2012		<0.005				
2/5/2013	<0.005				<0.005	<0.005
2/6/2013		<0.005	<0.005	<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			0.0023		0.0018	
8/4/2014			0.002	<0.005	0.0029	
8/5/2014	<0.005	<0.005				0.0018
2/2/2015	0.0028	<0.005		<0.005		
2/3/2015			0.0014		0.0017	0.0015
8/3/2015			0.0012 (JD)	<0.005 (D)	0.0028 (D)	
8/4/2015	<0.005 (D)	<0.005				0.0028
2/16/2016	<0.005		0.0017	<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	

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
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)
2/8/2022	0.002 (J)		0.0011 (J)	<0.005		0.0017 (J)
2/9/2022		<0.005			0.0022 (J)	
8/30/2022	0.0015 (J)		<0.005	<0.005	0.0019 (J)	0.0016 (J)
8/31/2022		<0.005				
Mean	0.002817	0.004384	0.002449	0.004423	0.002638	0.00262
Std. Dev.	0.001902	0.001516	0.001775	0.00153	0.001147	0.001671
Upper Lim.	0.005	0.005	0.0023	0.005	0.0028	0.0028
Lower Lim.	0.0011	0.0017	0.0011	0.0013	0.0019	0.0014

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	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
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
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	0.015					<0.005
3/4/2012				0.0032		
3/5/2012	<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				0.0067		
9/11/2012		0.017				
2/5/2013	0.0013				<0.005	<0.005
2/6/2013		0.025	<0.005	0.0024		
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	
8/4/2014			<0.005	<0.005	<0.005	
8/5/2014	<0.005	0.023				<0.005
2/2/2015	0.0015	0.022		<0.005		
2/3/2015			<0.005		<0.005	<0.005
8/3/2015			<0.005 (D)	<0.005 (D)	<0.005 (D)	
8/4/2015	<0.005 (D)	0.021				0.0014
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	

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
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
2/8/2022	0.0019 (J)		0.0074	0.0034 (J)		<0.005
2/9/2022		0.00085 (J)			0.00064 (J)	
8/30/2022	0.00087 (J)		0.0021 (J)	0.002 (J)	0.00077 (J)	<0.005
8/31/2022		0.0036 (J)				
Mean	0.002921	0.02021	0.00541	0.00314	0.003911	0.004897
Std. Dev.	0.00303	0.01181	0.002147	0.002029	0.001966	0.0006085
Upper Lim.	0.005	0.02517	0.0074	0.004654	0.005	0.005
Lower Lim.	0.0008	0.01526	0.0041	0.002487	0.00077	0.005

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

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)
2/8/2022	0.649 (U)		0.389 (U)	0.319 (U)		0.413 (U)
2/9/2022		0.42 (U)			0.48 (U)	
8/30/2022	0.476 (U)		0.884 (U)	0.433 (U)	1.36	0.861 (U)
8/31/2022		1.55				
Mean	0.765	1.045	0.7101	0.4057	0.6451	0.7866
Std. Dev.	0.331	0.5815	0.6621	0.2715	0.4615	0.5389
Upper Lim.	0.9498	1.423	1.003	0.5824	0.9013	1.046
Lower Lim.	0.5466	0.6662	0.2829	0.2291	0.283	0.452

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

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
2/8/2022	<0.1		0.16	<0.1		<0.1
2/9/2022		<0.1			0.053 (J)	
8/30/2022	<0.1		0.14	0.05 (J)	0.11	0.064 (J)
8/31/2022		<0.1				
Mean	0.09	0.1147	0.1307	0.09632	0.1101	0.09916
Std. Dev.	0.02028	0.1149	0.1182	0.02216	0.09221	0.04915
Upper Lim.	0.1	0.58	0.15	0.11	0.11	0.28
Lower Lim.	0.06	0.08	0.07	0.08	0.053	0.07

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
11/22/2010		<0.001		<0.001	
1/4/2011		<0.001		<0.001	
2/17/2011		<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				
3/4/2012				<0.001	
3/5/2012	<0.001		<0.001		<0.001
3/6/2012		<0.001			
9/5/2012	<0.001		<0.001		<0.001
9/10/2012				<0.001	
9/11/2012		<0.001			
2/5/2013	<0.001				<0.001
2/6/2013		<0.001	<0.001	<0.001	
8/13/2013	<0.001	<0.001	<0.001		
8/14/2013				<0.001	<0.001
2/4/2014	<0.001	<0.001		<0.001	
2/5/2014			<0.001		<0.001
8/4/2014			<0.001	<0.001	<0.001
8/5/2014	<0.001	<0.001			
2/2/2015	<0.001	<0.001		<0.001	
2/3/2015			<0.001		<0.001
8/3/2015			<0.001 (D)	<0.001 (D)	<0.001 (D)
8/4/2015	<0.001 (D)	<0.001			
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)			

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
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
2/8/2022	<0.001		<0.001	<0.001	
2/9/2022		<0.001			<0.001
8/30/2022	<0.001		<0.001	<0.001	<0.001
8/31/2022		<0.001			
Mean	0.0009351	0.0008095	0.0007802	0.0009718	0.0008104
Std. Dev.	0.0002425	0.0003798	0.0003968	0.0001645	0.0003785
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	6.7E-05	0.0001	0.00015	0.001	0.00019

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

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)
2/8/2022	0.0018 (J)		0.00094 (J)	<0.03		0.0016 (J)
2/9/2022		0.0042 (J)			0.0018 (J)	
8/30/2022	0.0019 (J)		<0.03	<0.03	0.0014 (J)	0.0013 (J)
8/31/2022		0.0042 (J)				
Mean	0.006596	0.008682	0.02318	0.0215	0.01491	0.009153
Std. Dev.	0.01117	0.01019	0.01268	0.01357	0.01466	0.01204
Upper Lim.	0.0024	0.0053	0.03	0.03	0.03	0.03
Lower Lim.	0.0013	0.0035	0.0012	0.0011	0.0014	0.0018

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	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
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
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
3/4/2012				<0.0002		
3/5/2012	<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		
9/11/2012		<0.0002				
2/5/2013	<0.0002				<0.0002	<0.0002
2/6/2013		<0.0002	<0.0002	0.00014		
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	
8/4/2014			<0.0002	<0.0002	<0.0002	
8/5/2014	<0.0002	<0.0002				<0.0002
2/2/2015	<0.0002	<0.0002		<0.0002		
2/3/2015			<0.0002		<0.0002	<0.0002
8/3/2015			<0.0002 (D)	<0.0002 (D)	<0.0002 (D)	
8/4/2015	<0.0002 (D)	<0.0002				<0.0002
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	

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
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
2/8/2022	<0.0002		<0.0002	<0.0002		<0.0002
2/9/2022		<0.0002			<0.0002	
8/30/2022	<0.0002		<0.0002	0.00014 (J)	<0.0002	<0.0002
8/31/2022		<0.0002				
Mean	0.0001951	0.0001962	0.0001968	0.0001923	0.0001952	0.0001908
Std. Dev.	2.618E-05	2.212E-05	6.15E-05	2.771E-05	2.6E-05	3.848E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	5.9E-05	0.0002	6.4E-05	0.00014	6E-05	0.0002

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	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
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
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
3/4/2012				<0.005		
3/5/2012	<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				0.011		
9/11/2012		<0.005				
2/5/2013	<0.005				0.011	<0.005
2/6/2013		<0.005	<0.005	0.011		
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		0.02	
8/4/2014			<0.005	0.0085	0.032	
8/5/2014	<0.005	<0.005				<0.005
2/2/2015	<0.005	<0.005		0.0089		
2/3/2015			<0.005		0.011	<0.005
8/3/2015			<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	0.0047 (J)	0.022	<0.005
2/17/2016		<0.005				
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)		<0.005			
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						<0.005
2/20/2018		<0.005		<0.005		
2/21/2018	<0.005		<0.005		0.0127	

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/6/2018						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						0.0051 (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	<0.005		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)
2/8/2022	0.02		0.0091	0.0044 (J)		<0.005
2/9/2022		0.0042 (J)			0.017	
8/30/2022	0.03		0.0068	0.0038 (J)	0.019	<0.005
8/31/2022		0.0042 (J)				
Mean	0.007041	0.004035	0.005724	0.006071	0.02116	0.004134
Std. Dev.	0.006342	0.001197	0.003261	0.003502	0.008738	0.001251
Upper Lim.	0.0066	0.005	0.0057	0.0054	0.02517	0.005
Lower Lim.	0.0039	0.0032	0.0045	0.0041	0.01716	0.0037

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-5R
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	<0.001
3/5/2012		<0.001
3/6/2012	<0.001	
9/5/2012		<0.001
9/11/2012	<0.001	
2/5/2013		<0.001
2/6/2013	<0.001	
8/13/2013	<0.001	
8/14/2013		<0.001
2/4/2014	<0.001	
2/5/2014		<0.001
8/4/2014		<0.001
2/2/2015	<0.001	
2/3/2015		<0.001
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
2/9/2022	<0.001	<0.001
8/30/2022		<0.001

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 10/21/2022 4:48 PM View: Appendix IV - Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-5R
8/31/2022	<0.001	
Mean	0.0009709	0.0009662
Std. Dev.	0.0001644	0.000179
Upper Lim.	0.001	0.001
Lower Lim.	0.001	5.3E-05

February 2023

GROUNDWATER STATS CONSULTING

July 31, 2023

Southern Company Services
Attn: Ms. Lauren Hartley
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Yates CCR Landfill Gypsum Stack
February 2023 Statistical Analysis

Dear Ms. Hartley,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the February 2023 semi-annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant Yates Landfill Gypsum Stack. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals (CCR) from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division 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:** GWC-1R, GWC-2R, GWC-3R, GWC-4R, GWC-5R, GWC-6R

Note that in addition to the wells listed above, upgradient well GWA-1, which has not been sampled since 2004, provides historical information about upgradient groundwater quality for the majority of Georgia EPD constituents. GWA-1 is included on the time series graphs and box plots as reference data, but no formal statistics for this well are included in this report.

All data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician of Groundwater Stats Consulting. The analysis was prepared according to the recommended statistical methodology provided in the Fall 2017 by Dr. Kirk Cameron, PhD Statistician with MacStat Consulting and primary author of the USEPA Unified Guidance.

The CCR and Georgia EPD programs consist of the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **CCR Appendix III:** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **CCR Appendix IV:** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lithium, lead, mercury, molybdenum, selenium, and thallium
- **Georgia EPD Appendix I & II:** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, mercury, nickel, selenium, silver, thallium, vanadium, and zinc

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. Summaries of all well/constituent pairs containing 100% non-detects for Appendix I and II parameters, and downgradient wells containing 100% non-detects for Appendix IV parameters follow this letter.

Combined upgradient well data from all units at Plant Yates are utilized to construct interwell prediction limits and upper tolerance limits for Appendix III and IV parameters, respectively.

Time series plots for all well/constituent pairs are provided and are particularly useful for screening parameters detected in downgradient wells which require statistical analyses

(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).

For interwell prediction and tolerance limits, a single reporting limit substitution is used across upgradient wells for a given parameter. In order to account for varying reporting limits upgradient of the facility and maintain interwell upper tolerance limits that are conservative (i.e., lower) from a regulatory perspective, the most recent reporting limit of 0.0005 mg/L was substituted for beryllium. For intrawell prediction limits, the most recent reporting limit for a given well/constituent will be substituted for any non-detect values. Regarding the cases of cobalt and zinc, due to varying detection limits in individual wells, the most recent reporting limits of 0.005 mg/L and 0.01 mg/L, were respectfully substituted across all wells for all calculations and reports.

During previous screenings, data at all wells for constituents detected in downgradient wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided in the previous screening to demonstrate that the selected statistical methods for the parameters listed above comply with the USEPA Unified Guidance and the Georgia Environmental Protection Division Rules for Solid Waste Management Chapter 391-3-4-.10. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations. Power curves were based on the following statistical methods:

Georgia EPD Appendix I & II Constituents:

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-2 resample plan (all parameters)
- # Constituents: 15 (Silver is either 100% non-detect or does not have any trace values close to the reporting limit in all downgradient wells)
- # Downgradient wells: 6

CCR Appendix III Constituents:

- Semi-Annual Sampling
- Intrawell Prediction Limits with 1-of-2 resample plan – (fluoride and pH)
- Interwell Prediction Limits with 1-of-2 resample plan – (boron, calcium, chloride, sulfate, and TDS)
- # Constituents: 7
- # Downgradient wells: 6

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 parametric limits is based on an annual 10% (5% per semi-annual event) as recommend by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The following approaches are used for handling non-detects (USEPA, 2009).

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after screening for any new outliers. In the intrawell case, data for all wells and constituents may be re-evaluated when a minimum of 4 new data points are available to determine whether earlier concentrations are

representative of present-day groundwater quality. 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 Original Background Screenings – State and Federal

Georgia EPD Appendix I & II Constituents – Conducted in August 2019

Outlier Screening

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at all wells and 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, one outlier was identified. Although there were no cases of this present in the datasets, 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.

Tukey's test method did not identify outliers for the highest measurements of zinc in wells GWA-2, GWC-3R and GWC-4R; however, these values were flagged in the database so that resulting statistical limits will be lower and more conservative, i.e., sensitive to changes in concentrations. A list of all flagged outliers is presented in the Outlier Summary.

Additionally, 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 display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made. 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 Testing

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, which tests for statistically significant increasing or decreasing trends, was used to evaluate data at all upgradient wells and downgradient wells with detections.

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 from current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

Statistically significant decreasing trends were noted for a few constituents, and one statistically significant increasing trend was identified for barium in well GWC-6R. The data sets were still relatively small, and the magnitudes of these trends were low relative to the average concentrations. Therefore, no adjustments were required to any of the records except for barium in wells GWC-4R and GWC-5R. Earlier measurements for barium in these wells were considerably higher than currently reported measurements. In order to construct prediction limits that are lower and more conservative from a regulatory perspective, only the more recent portion of these records were used for the statistical limits. All background data are re-evaluated during subsequent background updates.

CCR Appendix III Constituents – Conducted in April 2019

Outlier Screening

Data from each well/constituent pair were evaluated for outliers using the Tukey box plot method. A summary of those findings was submitted with the report. 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 display the flagged value in a lighter font as well.

Seasonality

No seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were required.

Trend Testing

The results of the trend analyses were included in the previous screening and showed a few statistically significant decreasing trends. Most of the trends noted were relatively low in magnitude when compared to average concentrations, and the background time period was short in 2019; therefore, no adjustments were made to the data sets. However, when decreasing trends persist over a longer period for parameters evaluated using intrawell methods at all wells or for parameters evaluated using interwell methods in upgradient wells, historical measurements may require deselection in order to maintain conservative (i.e., lower) limits.

Summary of Background Updates – State and Federal

Georgia EPD Appendix I & II and CCR Appendix III – March 2022

Outlier Analysis

Prior to updating background data, visual screening and Tukey's outlier test was used to evaluate data for suspected outliers in upgradient and downgradient wells through August 2021 for constituents tested using intrawell prediction limits and in pooled upgradient well data for constituents tested using interwell prediction and tolerance limits.

All of the more recent compliance measurements appeared stable with no spurious measurements compared to the previously screened historical data sets; therefore, no new outliers were flagged except for the most recent high reported measurements of cobalt in upgradient well GWA-2. These values were flagged in order to maintain conservative (i.e., lower) statistical limits. A summary of all flagged outliers follows this letter (Figure C).

Mann-Whitney Comparison of Medians

For constituents tested using intrawell prediction limits, the Mann-Whitney (Wilcoxon Rank Sum) test was used to compare the medians of historical data through October 2018 for state constituents and through February 2019 for federal constituents to new compliance samples at each well through August 2021. When the medians of the two groups are not statistically significantly different at the 99% confidence level, background data sets are updated to include the newer compliance data.

Typically, when the test concludes that the medians of the two groups are statistically significantly different, particularly in the downgradient wells, background data sets are not updated unless further research provides reasonable justification that the changes in concentrations reflect a naturally occurring shift unrelated to practices at the site. In studies such as the current one, in which at least one of the segments being compared is of short duration, the comparison is complicated by the fact that normal short-term variation may be mistaken for long-term change in medians.

All records with statistically significant Mann-Whitney results for upgradient and downgradient wells were updated. Similar shifts were noted in downgradient water quality conditions compared to those observed upgradient of the facility, such as in the case of the statistically significant increasing medians identified for zinc in upgradient well GWA-2R and downgradient well GWC-5R. Previously truncated records for barium at downgradient wells GWC-4R and GWC-5R were also updated with more recent data through 8/18/2021.

The statistically significant decreases identified in medians were either due to more recent reported trace values compared to previously reported non-detects, or variation in the records with lower compliance medians. Additionally, the compliance medians for well/constituent pairs containing variation in the record were lower than historical medians but similar to historical concentrations. Since the statistically significant decreases in medians between historical and compliance data sets signify lower concentrations and, generally, more conservative (i.e., lower) statistical limits, these cases were updated with more recent data.

In the case of pH at wells GWC-2R and GWC-5R, while more recent reported measurements were slightly lower than those reported historically, the measurements are similar to those reported in upgradient wells across all units (as may be seen on the time series graphs). Therefore, these records were also updated. Summaries of the Mann-Whitney test results for the state and federal parameters were included with the background update.

Trend Tests

For constituents requiring interwell prediction limits (boron, calcium, chloride, sulfate, and TDS), the Sen's Slope/Mann Kendall trend test, which tests for statistically significant increasing or decreasing trends, was used to evaluate data through August 2022 at all upgradient wells.

Several statistically significant increasing and decreasing trends were noted. However, since these are upgradient wells, the trends are likely the result of natural variation, and the patterns observed in these wells could reappear later in downgradient wells. Therefore, none of the records were adjusted.

Statistical Analysis of February 2023 Samples

Georgia EPD Appendix I & II Constituents – February 2023

Intrawell Prediction Limits

Intrawell limits constructed from carefully screened background data from within each well serve to provide statistical limits that are representative of the background data population, and that will rapidly identify a change in more recent compliance data from within a given well. The most recent sample from the same well is compared to its respective background. This statistical method removes the element of variation from across wells and eliminates the chance of mistaking spatial variation for a release from the facility.

In cases where downgradient average concentrations are higher than observed upgradient concentrations for a given constituent where intrawell analyses are recommended, the current assumption is that this is due to natural spatial variation rather than a result of practices at the landfill. Validation of this assumption requires a separate analysis or investigation that is beyond the scope of this data screening study. However, for this site, the pre-waste data support the assumption of natural variation rather than impacts of the landfill.

Intrawell prediction limits, combined with a 1-of-2 resample plan, were constructed using all available data through August 2021, except for the cases mentioned above and listed in the background date range table (Figure D). Additionally, no statistical analyses were included for well/constituent pairs containing 100% non-detects.

Note that during this sample event, the reporting limit for nickel at downgradient well GWC-5R increased from the historical reporting limit of 0.0025 mg/L to 0.005 mg/L and increased the intrawell prediction limit from 0.004969 mg/L to 0.005199 mg/L. Additionally, the statistical limit for zinc at upgradient well GWA-2 increased from 0.02538 mg/L to 0.033 mg/L as a result of a nonparametric intrawell prediction limit. No significant changes occurred.

For some well/constituent pairs containing <15% non-detects such as cobalt at well GWC-2R, nickel at well GWA-2, and selenium at well GWC-5R, parametric prediction limits slightly changed compared to those established during the background update. An update was made to the Sanitas™ statistical software in October 2022 that determines the percentage of non-detects within a given background record rather than all records evaluated for a given constituent. Simple substitution of ½ the reporting limit is applied when the percentage of non-detects is <15% in accordance with the USEPA EPA Unified Guidance (2009). No significant changes resulted from this implementation.

Compliance data from the February 2023 sample event are compared to the intrawell background limits. A statistical exceedance was identified in the following well:

- Arsenic: GWC-5R
- Cadmium: GWC-5R
- Cobalt: GWA-2 (upgradient)
- Selenium: GWC-1R

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 the resample confirms the initial exceedance, a statistically significant increase (SSI) is identified, and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If any resample falls within the statistical limit, the initial exceedance is considered to be a false positive result, and no further action is necessary.

Trend Test Evaluation – Appendix I & II

When prediction limit exceedances occur in any of the 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 at the 99% confidence level. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site. Upgradient trends are an indication of variability in groundwater unrelated to practices at the site. A summary and graphical presentation of

the trend test results follows this letter (Figure G). Significant trends were identified for the following Appendix I & II well/constituent pairs:

Trends – Intrawell Prediction Limit Exceedances

Increasing:

- Selenium: YGWA-17S (upgradient)

Decreasing:

- Cadmium: YGWA-39 (upgradient)

Note that a statistically significant increasing trend was identified for selenium at upgradient well YGWA-17 and a statistically significant decreasing trend was identified for cadmium at upgradient well YGWA-39. The slopes, however, are zero at these wells and represent the median slope of all the possible pairwise slopes of the data evaluated.

CCR Appendix III Constituents – February 2023

Intrawell Prediction Limits

For fluoride and pH, intrawell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical data through August 2021 (Figure E). The February 2023 sample from each well is compared to the background limit to determine whether there are exceedances over background. An exceedance was identified for the following well/constituent pair:

- pH: GWC-6R

Interwell Prediction Limits

For Appendix III parameters that are analyzed using interwell prediction limits (boron, calcium, chloride, sulfate, and TDS), background (upgradient) well data from all the Yates units were re-assessed for potential outliers during this analysis. No new outliers were flagged for Appendix III parameters using interwell prediction limits. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data from all of the Yates units through February 2023

(Figure F). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent.

The February 2023 sample from each downgradient well is compared to the background limit to determine whether there are exceedances over background. Exceedances were noted for the following downgradient well/constituent pairs:

- Boron: GWC-2R and GWC-4R
- Calcium: GWC-1R, GWC-2R, GWC-4R, and GWC-5R
- Chloride: GWC-2R and GWC-4R
- Sulfate: GWC-1R, GWC-2R, and GWC-5R
- TDS: GWC-1R, GWC-2R, GWC-4R, GWC-5R, and GWC-6R

Trend Test Evaluation – Appendix III

Data from downgradient well/constituent pairs found to exceed their respective intrawell and interwell prediction limits were further evaluated using the Sen's Slope/Mann Kendall trend test at the 99% confidence level. Trend tests were also performed for upgradient wells across all Yates units (Figure G). When trends are noted upgradient of the facility, it is an indication that groundwater concentrations are changing over time independent from the facility. Statistically significant trends were identified among the following well/constituent pairs:

Trends – Intrawell Prediction Limit Exceedances

Increasing

- pH: YGWA-21I (upgradient)

Decreasing

- pH: GWA-2, YGWA-17S, YGWA-18S, YGWA-39, YGWA-47, and YGWA-5D (All Upgradient)

Trends – Interwell Prediction Limit Exceedances

Increasing

- Boron: YGWA-39 (upgradient)
- Calcium: GWA-2, YGWA-1D, YGWA-5I, YGWA-17S, YGWA-21I, YGWA-39 (all upgradient), and GWC-2R
- Chloride: GWA-2, YGWA-17S, YGWA-18I, YGWA-20S, YGWA-40 (all upgradient) and GWC-2R
- Sulfate: GWA-2, YGWA-1D, YGWA-3D, YGWA-3I, YGWA-5I (all upgradient) and GWC-2R
- TDS: YGWA-21I, YGWA-39 (both upgradient), and GWC-2R

Decreasing

- Boron: YGWA-40 and YGWA-47 (both upgradient)
- Calcium: YGWA-1I, YGWA-5D, YGWA-18S, and YGWA-47 (all upgradient)
- Chloride: YGWA-3D, YGWA-5D, and YGWA-47 (all upgradient)
- Sulfate: YGWA-5D, YGWA-18I, YGWA-39, YGWA-40, and YGWA-47 (all upgradient)
- TDS: YGWA-5D and YGWA-47 (both upgradient)

Statistical Analysis of CCR Appendix IV Parameters – February 2023

For analysis of Appendix IV parameters, confidence intervals for each downgradient well/constituent were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis.

The reported measurements of cobalt from August 2020 through August 2022 in upgradient well GWA-2 were previously flagged as outliers as these measurements were two orders of magnitude higher than remaining measurements at this well. This step results in statistical limits that are conservative (i.e., lower) from a regulatory perspective. If further studies indicate these measurements represent variation in groundwater quality, the values will be re-evaluated for construction of interwell prediction limits. No additional values were flagged as outliers and a summary of flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

First, interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data from all the Yates units for Appendix IV constituents (Figure H). 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 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 (i.e., false positive rate) 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 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). On February 22, 2022, Georgia EPD incorporated the CCR-rule specified limits for these constituents (391-3-4-.10(6)(a)) which are utilized in this analysis. Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for the February 2023 sample event (Figure I).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals were constructed for the Appendix IV constituents in each downgradient well using all historical data since 2016 (Figure J). As mentioned above, confidence intervals were not required for downgradient well/constituent pairs containing 100% non-detects since 2016.

The Sanitas software was used to calculate the tolerance limits and the confidence intervals, either parametric or nonparametric, as appropriate. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS established using the Georgia EPD Rules 391-3-4-.10(6)(a). The confidence level associated with nonparametric confidence intervals is dependent upon the number samples available. Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. A summary of the confidence intervals and complete graphical results follows this letter. No exceedances were identified for the confidence intervals.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Yates CCR Landfill Gypsum Stack. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Andrew T. Collins
Project Manager

Kristina L. Rayner
Senior Statistician

Date Ranges

Date: 5/2/2023 9:34 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Barium (mg/L)

GWC-4R background:3/28/2011-8/18/2021

GWC-5R background:8/14/2013-8/18/2021

100% Non-Detects: Appendix I & II

Analysis Run 5/2/2023 9:36 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Antimony (mg/L)
GWC-1R, GWC-3R, GWC-6R

Beryllium (mg/L)
GWA-2, GWC-6R

Cadmium (mg/L)
GWC-6R

Lead (mg/L)
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 5/2/2023 12:37 PM View: Appendix IV
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

Appendix I & II Intrawell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/2/2023, 9:42 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**GWC-5R**	**0.005**	**n/a**	**2/7/2023**	**0.0054**	**Yes**	**27**	**n/a**	**n/a**	**48.15**	**n/a**	**n/a**	**0.002502**	**NP Intra (normality) 1 of 2**
Cadmium (mg/L)	**GWC-5R**	**0.00114**	**n/a**	**2/7/2023**	**0.0013**	**Yes**	**27**	**4.6e-10**	**4.5e-10**	**29.63**	**Kaplan-Meier**	**x^3**	**0.0005852**	**Param Intra 1 of 2**
Cobalt (mg/L)	**GWA-2**	**0.006801**	**n/a**	**2/7/2023**	**0.034**	**Yes**	**32**	**0.00327**	**0.001613**	**34.38**	**Kaplan-Meier**	**No**	**0.0005852**	**Param Intra 1 of 2**
Selenium (mg/L)	**GWC-1R**	**0.019**	**n/a**	**2/7/2023**	**0.025**	**Yes**	**27**	**n/a**	**n/a**	**48.15**	**n/a**	**n/a**	**0.002502**	**NP Intra (normality) 1 of 2**

Appendix I & II Intrawell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/2/2023, 9:42 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-2	0.003	n/a	2/7/2023	0.003ND	No	36	n/a	n/a	91.67	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-2R	0.003	n/a	2/8/2023	0.003ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-4R	0.003	n/a	2/8/2023	0.003ND	No	32	n/a	n/a	90.63	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-5R	0.003	n/a	2/7/2023	0.003ND	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-2	0.005	n/a	2/7/2023	0.005ND	No	36	n/a	n/a	94.44	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-1R	0.005	n/a	2/7/2023	0.0047J	No	27	n/a	n/a	77.78	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-2R	0.005	n/a	2/8/2023	0.005ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-3R	0.005	n/a	2/8/2023	0.005ND	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-4R	0.005	n/a	2/8/2023	0.005ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	**GWC-5R**	**0.005**	**n/a**	**2/7/2023**	**0.0054**	**Yes**	**27**	**n/a**	**n/a**	**48.15**	**n/a**	**n/a**	**0.002502**	**NP Intra (normality) 1 of 2**
Arsenic (mg/L)	GWC-6R	0.005	n/a	2/7/2023	0.005ND	No	33	n/a	n/a	72.73	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWA-2	0.07655	n/a	2/7/2023	0.034	No	36	0.04995	0.01231	0	None	No	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-1R	0.09209	n/a	2/7/2023	0.051	No	27	0.04909	0.01922	0	None	No	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-2R	0.13	n/a	2/8/2023	0.027	No	32	n/a	n/a	0	n/a	n/a	0.001803	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-3R	0.08517	n/a	2/8/2023	0.0089	No	27	0.3004	0.06239	0	None	x^(1/3)	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-4R	0.06816	n/a	2/8/2023	0.034	No	28	0.3039	0.04699	0	None	x^(1/3)	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-5R	0.058	n/a	2/7/2023	0.011	No	23	n/a	n/a	0	n/a	n/a	0.003415	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-6R	0.09329	n/a	2/7/2023	0.032	No	33	0.04743	0.02102	0	None	No	0.0005852	Param Intra 1 of 2
Beryllium (mg/L)	GWC-1R	0.003	n/a	2/7/2023	0.00037J	No	27	n/a	n/a	48.15	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWC-2R	0.003	n/a	2/8/2023	0.00025J	No	32	n/a	n/a	71.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-3R	0.003	n/a	2/8/2023	0.00033J	No	27	n/a	n/a	25.93	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWC-4R	0.003	n/a	2/8/2023	0.00013J	No	32	n/a	n/a	90.63	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-5R	0.0037	n/a	2/7/2023	0.0025	No	27	n/a	n/a	25.93	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Cadmium (mg/L)	GWA-2	0.0005	n/a	2/7/2023	0.00012J	No	36	n/a	n/a	100	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-1R	0.0025	n/a	2/7/2023	0.0002J	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-2R	0.0005	n/a	2/8/2023	0.0005ND	No	32	n/a	n/a	81.25	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-3R	0.0005	n/a	2/8/2023	0.0005ND	No	27	n/a	n/a	62.96	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-4R	0.0005	n/a	2/8/2023	0.0005ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	**GWC-5R**	**0.00114**	**n/a**	**2/7/2023**	**0.0013**	**Yes**	**27**	**4.6e-10**	**4.5e-10**	**29.63**	**Kaplan-Meier**	**x^3**	**0.0005852**	**Param Intra 1 of 2**
Chromium (mg/L)	GWA-2	0.0084	n/a	2/7/2023	0.005ND	No	36	n/a	n/a	77.78	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-1R	0.01	n/a	2/7/2023	0.002J	No	27	n/a	n/a	44.44	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-2R	0.005	n/a	2/8/2023	0.005ND	No	32	n/a	n/a	84.38	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-3R	0.005	n/a	2/8/2023	0.0017J	No	27	n/a	n/a	29.63	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-4R	0.0062	n/a	2/8/2023	0.0012J	No	32	n/a	n/a	81.25	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-5R	0.01	n/a	2/7/2023	0.0028J	No	27	n/a	n/a	18.52	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-6R	0.01	n/a	2/7/2023	0.0025J	No	33	n/a	n/a	33.33	n/a	n/a	0.001701	NP Intra (normality) 1 of 2
Cobalt (mg/L)	**GWA-2**	**0.006801**	**n/a**	**2/7/2023**	**0.034**	**Yes**	**32**	**0.00327**	**0.001613**	**34.38**	**Kaplan-Meier**	**No**	**0.0005852**	**Param Intra 1 of 2**
Cobalt (mg/L)	GWC-1R	0.015	n/a	2/7/2023	0.00086J	No	27	n/a	n/a	37.04	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Cobalt (mg/L)	GWC-2R	0.04612	n/a	2/8/2023	0.00052J	No	32	0.02126	0.01136	3.125	None	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-3R	0.011	n/a	2/8/2023	0.00085J	No	27	n/a	n/a	74.07	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-4R	0.006272	n/a	2/8/2023	0.0006J	No	32	0.002253	0.001836	28.13	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-5R	0.005	n/a	2/7/2023	0.00085J	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-6R	0.005	n/a	2/7/2023	0.005ND	No	33	n/a	n/a	96.97	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-2	0.0074	n/a	2/7/2023	0.005ND	No	29	n/a	n/a	44.83	n/a	n/a	0.002172	NP Intra (normality) 1 of 2
Copper (mg/L)	GWC-1R	0.005	n/a	2/7/2023	0.005ND	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-2R	0.005	n/a	2/8/2023	0.005ND	No	25	n/a	n/a	96	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-3R	0.016	n/a	2/8/2023	0.005ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-4R	0.005	n/a	2/8/2023	0.005ND	No	25	n/a	n/a	84	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-5R	0.005	n/a	2/7/2023	0.005ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-6R	0.005	n/a	2/7/2023	0.005ND	No	26	n/a	n/a	50	n/a	n/a	0.002667	NP Intra (normality) 1 of 2
Lead (mg/L)	GWA-2	0.001	n/a	2/7/2023	0.001ND	No	36	n/a	n/a	97.22	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-1R	0.001	n/a	2/7/2023	0.001ND	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-2R	0.001	n/a	2/8/2023	0.001ND	No	32	n/a	n/a	78.13	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-3R	0.001	n/a	2/8/2023	0.001ND	No	27	n/a	n/a	74.07	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-4R	0.001	n/a	2/8/2023	0.001ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-5R	0.001	n/a	2/7/2023	0.001ND	No	27	n/a	n/a	77.78	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 5/2/2023, 9:42 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Mercury (mg/L)	GWA-2	0.0002	n/a	2/7/2023	0.00013J	No	36	n/a	n/a	94.44	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-1R	0.0002	n/a	2/7/2023	0.0002ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-2R	0.0002	n/a	2/8/2023	0.0002ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-3R	0.00043	n/a	2/8/2023	0.0002ND	No	27	n/a	n/a	88.89	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-4R	0.0002	n/a	2/8/2023	0.0002J	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-5R	0.0002	n/a	2/7/2023	0.0002ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-6R	0.0002	n/a	2/7/2023	0.0002ND	No	33	n/a	n/a	93.94	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-2	0.03314	n/a	2/7/2023	0.0096	No	29	-5.033	0.7342	10.34	None	ln(x)	0.0005852	Param Intra 1 of 2
Nickel (mg/L)	GWC-1R	0.008772	n/a	2/7/2023	0.0028J	No	20	-6.236	0.6381	30	Kaplan-Meier	ln(x)	0.0005852	Param Intra 1 of 2
Nickel (mg/L)	GWC-2R	0.0096	n/a	2/8/2023	0.005ND	No	25	n/a	n/a	44	n/a	n/a	0.002832	NP Intra (normality) 1 of 2
Nickel (mg/L)	GWC-3R	0.0054	n/a	2/8/2023	0.005ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-4R	0.005	n/a	2/8/2023	0.005ND	No	25	n/a	n/a	60	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-5R	0.005199	n/a	2/7/2023	0.005ND	No	20	0.0448	0.01162	20	Kaplan-Meier	sqrt(x)	0.0005852	Param Intra 1 of 2
Nickel (mg/L)	GWC-6R	0.005	n/a	2/7/2023	0.005ND	No	26	n/a	n/a	65.38	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Selenium (mg/L)	**GWC-1R**	**0.019**	**n/a**	**2/7/2023**	**0.025**	**Yes**	**27**	**n/a**	**n/a**	**48.15**	**n/a**	**n/a**	**0.002502**	**NP Intra (normality) 1 of 2**
Selenium (mg/L)	GWC-2R	0.01	n/a	2/8/2023	0.0043J	No	32	n/a	n/a	50	n/a	n/a	0.001803	NP Intra (normality) 1 of 2
Selenium (mg/L)	GWC-3R	0.017	n/a	2/8/2023	0.002J	No	27	n/a	n/a	40.74	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Selenium (mg/L)	GWC-4R	0.01445	n/a	2/8/2023	0.0029J	No	32	0.07177	0.02213	25	Kaplan-Meier	sqrt(x)	0.0005852	Param Intra 1 of 2
Selenium (mg/L)	GWC-5R	0.0414	n/a	2/7/2023	0.02	No	27	0.02145	0.008917	3.704	None	No	0.0005852	Param Intra 1 of 2
Selenium (mg/L)	GWC-6R	0.0051	n/a	2/7/2023	0.005ND	No	33	n/a	n/a	51.52	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-2	0.001	n/a	2/7/2023	0.001ND	No	35	n/a	n/a	88.57	n/a	n/a	0.001497	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-2R	0.001	n/a	2/8/2023	0.001ND	No	30	n/a	n/a	96.67	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-5R	0.001	n/a	2/7/2023	0.001ND	No	26	n/a	n/a	96.15	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-2	0.01	n/a	2/7/2023	0.01ND	No	31	n/a	n/a	83.87	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-1R	0.01	n/a	2/7/2023	0.01ND	No	22	n/a	n/a	86.36	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-2R	0.01	n/a	2/8/2023	0.01ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-3R	0.01	n/a	2/8/2023	0.01ND	No	22	n/a	n/a	90.91	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-4R	0.01	n/a	2/8/2023	0.01ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-5R	0.01	n/a	2/7/2023	0.01ND	No	22	n/a	n/a	86.36	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-6R	0.01	n/a	2/7/2023	0.01ND	No	28	n/a	n/a	78.57	n/a	n/a	0.002337	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-2	0.033	n/a	2/7/2023	0.0072J	No	30	n/a	n/a	10	n/a	n/a	0.002008	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-1R	0.01	n/a	2/7/2023	0.01ND	No	22	n/a	n/a	31.82	n/a	n/a	0.003707	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-2R	0.01022	n/a	2/8/2023	0.01ND	No	27	-5.718	0.507	18.52	Kaplan-Meier	ln(x)	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-3R	0.01375	n/a	2/8/2023	0.01ND	No	21	0.006395	0.003152	9.524	None	No	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-4R	0.01	n/a	2/8/2023	0.01ND	No	26	n/a	n/a	69.23	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-5R	0.02878	n/a	2/7/2023	0.023	No	23	0.01173	0.007426	0	None	No	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-6R	0.01	n/a	2/7/2023	0.01ND	No	28	n/a	n/a	42.86	n/a	n/a	0.002337	NP Intra (normality) 1 of 2

Appendix III Intrawell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/2/2023, 10:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (S.U.)	**GWC-6R**	**6.79**	**5.2**	**2/7/2023**	**4.81**	**Yes**	**28**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.004674**	**NP Intra (normality) 1 of 2**

Appendix III Intrawell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/2/2023, 10:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GWA-2	0.187	n/a	2/7/2023	0.095J	No	17	0.09947	0.04015	5.882	None	No	0.001254	Param Intra 1 of 2
Fluoride (mg/L)	GWC-1R	0.1	n/a	2/7/2023	0.1ND	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-2R	0.58	n/a	2/8/2023	0.1ND	No	17	n/a	n/a	70.59	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-3R	0.4247	n/a	2/8/2023	0.12	No	17	-2.596	0.7975	41.18	Kaplan-Meier	ln(x)	0.001254	Param Intra 1 of 2
Fluoride (mg/L)	GWC-4R	0.15	n/a	2/8/2023	0.05J	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-5R	0.37	n/a	2/7/2023	0.077J	No	17	n/a	n/a	52.94	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-6R	0.28	n/a	2/7/2023	0.07J	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
pH (S.U.)	GWA-2	6.968	5.399	2/7/2023	5.94	No	30	6.184	0.3941	0	None	No	0.0006268	Param Intra 1 of 2
pH (S.U.)	GWC-1R	6.8	4.49	2/7/2023	5.16	No	18	n/a	n/a	0	n/a	n/a	0.01075	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-2R	6.8	4.35	2/8/2023	4.96	No	25	n/a	n/a	0	n/a	n/a	0.005664	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-3R	5.572	4.528	2/8/2023	5.21	No	18	25.78	2.447	0	None	x^2	0.0006268	Param Intra 1 of 2
pH (S.U.)	GWC-4R	6.16	5.07	2/8/2023	5.64	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-5R	5.568	4.599	2/7/2023	4.62	No	19	5.084	0.2272	0	None	No	0.0006268	Param Intra 1 of 2
pH (S.U.)	**GWC-6R**	**6.79**	**5.2**	**2/7/2023**	**4.81**	**Yes**	**28**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.004674**	**NP Intra (normality) 1 of 2**

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/2/2023, 10:20 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**GWC-2R**	**0.16**	**n/a**	**2/8/2023**	**0.22**	**Yes**	**369**	**n/a**	**n/a**	**49.86**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**GWC-4R**	**0.16**	**n/a**	**2/8/2023**	**2.7**	**Yes**	**369**	**n/a**	**n/a**	**49.86**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-1R**	**37**	**n/a**	**2/7/2023**	**179**	**Yes**	**369**	**n/a**	**n/a**	**0.813**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-2R**	**37**	**n/a**	**2/8/2023**	**48**	**Yes**	**369**	**n/a**	**n/a**	**0.813**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-4R**	**37**	**n/a**	**2/8/2023**	**39**	**Yes**	**369**	**n/a**	**n/a**	**0.813**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-5R**	**37**	**n/a**	**2/7/2023**	**112**	**Yes**	**369**	**n/a**	**n/a**	**0.813**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GWC-2R**	**12**	**n/a**	**2/8/2023**	**12.3**	**Yes**	**369**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GWC-4R**	**12**	**n/a**	**2/8/2023**	**121**	**Yes**	**369**	**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**	**2/7/2023**	**922**	**Yes**	**369**	**n/a**	**n/a**	**5.962**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GWC-2R**	**160**	**n/a**	**2/8/2023**	**288**	**Yes**	**369**	**n/a**	**n/a**	**5.962**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GWC-5R**	**160**	**n/a**	**2/7/2023**	**935**	**Yes**	**369**	**n/a**	**n/a**	**5.962**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GWC-1R**	**219.6**	**n/a**	**2/7/2023**	**1400**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-2R**	**219.6**	**n/a**	**2/8/2023**	**540**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-4R**	**219.6**	**n/a**	**2/8/2023**	**718**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-5R**	**219.6**	**n/a**	**2/7/2023**	**1370**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-6R**	**219.6**	**n/a**	**2/7/2023**	**259**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**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 5/2/2023, 10:20 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-1R	0.16	n/a	2/7/2023	0.015J	No	369	n/a	n/a	49.86	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	**GWC-2R**	**0.16**	**n/a**	**2/8/2023**	**0.22**	**Yes**	**369**	**n/a**	**n/a**	**49.86**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	GWC-3R	0.16	n/a	2/8/2023	0.04ND	No	369	n/a	n/a	49.86	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	**GWC-4R**	**0.16**	**n/a**	**2/8/2023**	**2.7**	**Yes**	**369**	**n/a**	**n/a**	**49.86**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	GWC-5R	0.16	n/a	2/7/2023	0.017J	No	369	n/a	n/a	49.86	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-6R	0.16	n/a	2/7/2023	0.04ND	No	369	n/a	n/a	49.86	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GWC-1R**	**37**	**n/a**	**2/7/2023**	**179**	**Yes**	**369**	**n/a**	**n/a**	**0.813**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-2R**	**37**	**n/a**	**2/8/2023**	**48**	**Yes**	**369**	**n/a**	**n/a**	**0.813**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	GWC-3R	37	n/a	2/8/2023	11.2	No	369	n/a	n/a	0.813	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GWC-4R**	**37**	**n/a**	**2/8/2023**	**39**	**Yes**	**369**	**n/a**	**n/a**	**0.813**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-5R**	**37**	**n/a**	**2/7/2023**	**112**	**Yes**	**369**	**n/a**	**n/a**	**0.813**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	GWC-6R	37	n/a	2/7/2023	30.8	No	369	n/a	n/a	0.813	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-1R	12	n/a	2/7/2023	6.2	No	369	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	**GWC-2R**	**12**	**n/a**	**2/8/2023**	**12.3**	**Yes**	**369**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	GWC-3R	12	n/a	2/8/2023	3.4	No	369	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	**GWC-4R**	**12**	**n/a**	**2/8/2023**	**121**	**Yes**	**369**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	GWC-5R	12	n/a	2/7/2023	2.1	No	369	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6R	12	n/a	2/7/2023	7.9	No	369	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**	**2/7/2023**	**922**	**Yes**	**369**	**n/a**	**n/a**	**5.962**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GWC-2R**	**160**	**n/a**	**2/8/2023**	**288**	**Yes**	**369**	**n/a**	**n/a**	**5.962**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GWC-3R	160	n/a	2/8/2023	43.3	No	369	n/a	n/a	5.962	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-4R	160	n/a	2/8/2023	87.8	No	369	n/a	n/a	5.962	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GWC-5R**	**160**	**n/a**	**2/7/2023**	**935**	**Yes**	**369**	**n/a**	**n/a**	**5.962**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GWC-6R	160	n/a	2/7/2023	110	No	369	n/a	n/a	5.962	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
TDS (mg/L)	**GWC-1R**	**219.6**	**n/a**	**2/7/2023**	**1400**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-2R**	**219.6**	**n/a**	**2/8/2023**	**540**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	GWC-3R	219.6	n/a	2/8/2023	101	No	369	10.11	2.582	0.542	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	**GWC-4R**	**219.6**	**n/a**	**2/8/2023**	**718**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-5R**	**219.6**	**n/a**	**2/7/2023**	**1370**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-6R**	**219.6**	**n/a**	**2/7/2023**	**259**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**

Appendix I, II, & III Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/2/2023, 1:05 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-39 (bg)	0.0181	75	63	Yes	17	5.882	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01412	-91	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.0007791	-66	-63	Yes	17	0	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-39 (bg)	0	-77	-74	Yes	19	68.42	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	2.992	85	68	Yes	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-2R	6.596	105	68	Yes	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.137	126	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.07974	-131	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.5761	98	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.08713	-95	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	0.7925	98	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	1.642	69	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.172	-111	-63	Yes	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.44	-101	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.06857	92	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.3022	89	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-2R	1.659	74	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.6176	144	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18I (bg)	0.09536	88	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.1082	121	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.04106	-83	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.38	82	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.4206	-96	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.6898	-139	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (S.U.)	GWA-2 (bg)	-0.04289	-209	-167	Yes	33	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-17S (bg)	-0.01585	-103	-98	Yes	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-18S (bg)	-0.05905	-157	-105	Yes	24	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-21I (bg)	0.1159	131	105	Yes	24	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-39 (bg)	-0.1921	-122	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-47 (bg)	-0.05028	-87	-74	Yes	19	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-5D (bg)	-0.08917	-124	-98	Yes	23	0	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-17S (bg)	0	106	92	Yes	22	72.73	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	14.48	88	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-2R	31.06	91	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.1242	-93	-81	Yes	20	20	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.9678	140	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.618	-90	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.3151	105	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	0.9326	99	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-8.078	-103	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-15.39	-121	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-2.638	-144	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.1006	134	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-2R	60.73	99	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-21I (bg)	11.42	85	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-39 (bg)	29.24	74	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-47 (bg)	-13.38	-101	-63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-5D (bg)	-11.59	-90	-81	Yes	20	0	n/a	n/a	0.01	NP

Appendix I, II, & III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/2/2023, 1:05 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	GWA-2 (bg)	0	-104	-214	No	39	89.74	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-5R	-0.0001996	-134	-146	No	30	43.33	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-14S (bg)	0	-18	-98	No	23	95.65	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-17S (bg)	0	-23	-92	No	22	90.91	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-18I (bg)	0	-17	-98	No	23	86.96	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-18S (bg)	0	-17	-98	No	23	86.96	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-1D (bg)	0	24	98	No	23	30.43	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-1I (bg)	0	-23	-98	No	23	91.3	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-20S (bg)	0	-18	-98	No	23	95.65	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-21I (bg)	-0.0003031	-83	-98	No	23	34.78	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-2I (bg)	0	11	98	No	23	21.74	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-30I (bg)	0	-25	-98	No	23	91.3	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-39 (bg)	0	-20	-74	No	19	57.89	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-3D (bg)	0	-63	-98	No	23	73.91	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-3I (bg)	0	-31	-98	No	23	73.91	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-40 (bg)	0	-17	-74	No	19	89.47	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-47 (bg)	0	0	68	No	18	83.33	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-4I (bg)	0	-13	-98	No	23	91.3	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-5D (bg)	0	8	98	No	23	34.78	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-5I (bg)	0	-25	-98	No	23	91.3	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	29	68	No	18	66.67	n/a	n/a	0.01	NP
Boron (mg/L)	GWC-2R	0.01686	66	68	No	18	5.556	n/a	n/a	0.01	NP
Boron (mg/L)	GWC-4R	0.2886	39	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.0006705	-53	-81	No	20	10	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	0.0003162	37	81	No	20	10	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-18	-81	No	20	80	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.0004242	39	81	No	20	25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.001404	46	81	No	20	40	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-3	-81	No	20	75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-7	-81	No	20	90	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-48	-81	No	20	60	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	-2	-81	No	20	80	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-16	-81	No	20	85	n/a	n/a	0.01	NP
Boron (mg/L)	**YGWA-39 (bg)**	**0.0181**	**75**	**63**	**Yes**	**17**	**5.882**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-3D (bg)	0	8	81	No	20	60	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-15	-81	No	20	90	n/a	n/a	0.01	NP
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01412**	**-91**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-47 (bg)**	**-0.0007791**	**-66**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-4I (bg)	0	7	81	No	20	70	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0004226	48	81	No	20	15	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-18	-81	No	20	65	n/a	n/a	0.01	NP
Cadmium (mg/L)	GWA-2 (bg)	0	-38	-214	No	39	97.44	n/a	n/a	0.01	NP
Cadmium (mg/L)	GWC-5R	0.00001236	64	146	No	30	26.67	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-14S (bg)	0	10	87	No	21	95.24	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-17S (bg)	0	13	92	No	22	95.45	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-18I (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-18S (bg)	0	14	98	No	23	95.65	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-1D (bg)	0	12	87	No	21	95.24	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-1I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-20S (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-21I (bg)	0	-31	-98	No	23	86.96	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-2I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-30I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Cadmium (mg/L)	**YGWA-39 (bg)**	**0**	**-77**	**-74**	**Yes**	**19**	**68.42**	**n/a**	**n/a**	**0.01**	**NP**
Cadmium (mg/L)	YGWA-3D (bg)	0	12	87	No	21	95.24	n/a	n/a	0.01	NP

Appendix I, II, & III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/2/2023, 1:05 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cadmium (mg/L)	YGWA-3I (bg)	0	-7	-87	No	21	90.48	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-40 (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-47 (bg)	0	36	58	No	16	68.75	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-4I (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-5D (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-5I (bg)	0	14	98	No	23	95.65	n/a	n/a	0.01	NP
Calcium (mg/L)	**GWA-2 (bg)**	**2.992**	**85**	**68**	**Yes**	**18**	**5.556**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GWC-1R	18.25	55	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GWC-2R**	**6.596**	**105**	**68**	**Yes**	**18**	**5.556**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GWC-4R	4.133	55	68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-5R	4.455	41	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-14S (bg)	0	4	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-17S (bg)**	**0.137**	**126**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-18I (bg)	0.06151	41	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-18S (bg)**	**-0.07974**	**-131**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1D (bg)**	**0.5761**	**98**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1I (bg)**	**-0.08713**	**-95**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-20S (bg)	0.03077	57	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-21I (bg)**	**0.7925**	**98**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-2I (bg)	0.0884	17	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0.01674	45	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-39 (bg)**	**1.642**	**69**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-3D (bg)	0.3791	60	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.5034	67	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-40 (bg)	-0.5174	-42	-63	No	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-47 (bg)**	**-1.172**	**-111**	**-63**	**Yes**	**17**	**5.882**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-4I (bg)	0.09322	24	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-5D (bg)**	**-1.44**	**-101**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-5I (bg)**	**0.06857**	**92**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GWA-2 (bg)**	**0.3022**	**89**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GWC-2R**	**1.659**	**74**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GWC-4R	8.98	29	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1256	62	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-17S (bg)**	**0.6176**	**144**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-18I (bg)**	**0.09536**	**88**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-18S (bg)	0.1291	65	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	0	-23	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	0	-27	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-20S (bg)**	**0.1082**	**121**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-21I (bg)	-0.08464	-55	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.01591	-28	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	0	-21	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.764	61	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.04106**	**-83**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-3I (bg)	-0.02711	-72	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-40 (bg)**	**0.38**	**82**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.4206**	**-96**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-4I (bg)	0.07352	53	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.6898**	**-139**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-5I (bg)	0.01678	22	81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	**GWA-2 (bg)**	**-0.04289**	**-209**	**-167**	**Yes**	**33**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	GWC-6R	-0.01502	-87	-152	No	31	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-14S (bg)	-0.009636	-37	-105	No	24	0	n/a	n/a	0.01	NP
pH (S.U.)	**YGWA-17S (bg)**	**-0.01585**	**-103**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	YGWA-18I (bg)	-0.02177	-70	-105	No	24	0	n/a	n/a	0.01	NP

Appendix I, II, & III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/2/2023, 1:05 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH (S.U.)	**YGWA-18S (bg)**	**-0.05905**	**-157**	**-105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	YGWA-1D (bg)	-0.03393	-54	-105	No	24	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-1I (bg)	-0.0241	-46	-105	No	24	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-20S (bg)	0.01318	36	105	No	24	0	n/a	n/a	0.01	NP
pH (S.U.)	**YGWA-21I (bg)**	**0.1159**	**131**	**105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	YGWA-2I (bg)	-0.02814	-54	-105	No	24	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-30I (bg)	0.01352	31	98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	**YGWA-39 (bg)**	**-0.1921**	**-122**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	YGWA-3D (bg)	0	-2	-105	No	24	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-3I (bg)	-0.01413	-30	-105	No	24	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-40 (bg)	-0.01578	-11	-81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	**YGWA-47 (bg)**	**-0.05028**	**-87**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	YGWA-4I (bg)	-0.03585	-83	-105	No	24	0	n/a	n/a	0.01	NP
pH (S.U.)	**YGWA-5D (bg)**	**-0.08917**	**-124**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	YGWA-5I (bg)	-0.02116	-49	-105	No	24	0	n/a	n/a	0.01	NP
Selenium (mg/L)	GWA-2 (bg)	0	0	214	No	39	100	n/a	n/a	0.01	NP
Selenium (mg/L)	GWC-1R	0	62	146	No	30	43.33	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-14S (bg)	0	54	87	No	21	71.43	n/a	n/a	0.01	NP
Selenium (mg/L)	**YGWA-17S (bg)**	**0**	**106**	**92**	**Yes**	**22**	**72.73**	**n/a**	**n/a**	**0.01**	**NP**
Selenium (mg/L)	YGWA-18I (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-18S (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-1D (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-1I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-20S (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-21I (bg)	0	41	98	No	23	91.3	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-2I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-30I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-39 (bg)	0	4	74	No	19	94.74	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-3D (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-3I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-40 (bg)	0	-25	-74	No	19	42.11	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-47 (bg)	0	21	48	No	14	85.71	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-4I (bg)	0	7	98	No	23	91.3	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-5D (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-5I (bg)	0	20	98	No	23	95.65	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GWA-2 (bg)**	**14.48**	**88**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GWC-1R	76.2	47	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GWC-2R**	**31.06**	**91**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GWC-5R	-6.777	-7	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-14S (bg)	-0.02207	-14	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0.02875	23	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-18I (bg)**	**-0.1242**	**-93**	**-81**	**Yes**	**20**	**20**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-18S (bg)	-0.1096	-55	-81	No	20	10	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-1D (bg)**	**0.9678**	**140**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-1I (bg)	-0.04757	-9	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	48	81	No	20	70	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.2092	-55	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	1.209	77	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.03067	-23	-81	No	20	10	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-39 (bg)**	**-2.618**	**-90**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3D (bg)**	**0.3151**	**105**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3I (bg)**	**0.9326**	**99**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-40 (bg)**	**-8.078**	**-103**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-47 (bg)**	**-15.39**	**-121**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-4I (bg)	0.07548	35	81	No	20	0	n/a	n/a	0.01	NP

Appendix I, II, & III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/2/2023, 1:05 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	**YGWA-5D (bg)**	**-2.638**	**-144**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-5I (bg)**	**0.1006**	**134**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GWA-2 (bg)	17.72	66	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-1R	137.4	49	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GWC-2R**	**60.73**	**99**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GWC-4R	42.31	48	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-5R	10.6	9	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-6R	-68.4	-37	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-14S (bg)	0.3652	16	81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-17S (bg)	2.621	47	81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-18I (bg)	-1.319	-26	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-18S (bg)	0.3933	9	81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-1D (bg)	2.029	32	81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-1I (bg)	-1.086	-18	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-20S (bg)	3.156	51	81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	**YGWA-21I (bg)**	**11.42**	**85**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-2I (bg)	-0.8152	-19	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-30I (bg)	1.488	24	81	No	20	10	n/a	n/a	0.01	NP
TDS (mg/L)	**YGWA-39 (bg)**	**29.24**	**74**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-3D (bg)	0.3218	7	81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-3I (bg)	0.862	9	81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-40 (bg)	-7.039	-48	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	**YGWA-47 (bg)**	**-13.38**	**-101**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-4I (bg)	0.9669	14	81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	**YGWA-5D (bg)**	**-11.59**	**-90**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-5I (bg)	-0.8043	-16	-81	No	20	0	n/a	n/a	0.01	NP

Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/2/2023, 11:00 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0047	n/a	n/a	n/a	n/a 391	n/a	n/a	87.98	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 439	n/a	n/a	74.72	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.21	n/a	n/a	n/a	n/a 439	n/a	n/a	2.506	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0011	n/a	n/a	n/a	n/a 423	n/a	n/a	79.43	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.00063	n/a	n/a	n/a	n/a 423	n/a	n/a	94.56	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0093	n/a	n/a	n/a	n/a 391	n/a	n/a	80.05	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a 433	n/a	n/a	69.05	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	6.92	n/a	n/a	n/a	n/a 418	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	n/a	0.68	n/a	n/a	n/a	n/a 438	n/a	n/a	64.16	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	n/a 393	n/a	n/a	86.01	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a 418	n/a	n/a	25.84	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	n/a	0.00064	n/a	n/a	n/a	n/a 347	n/a	n/a	91.93	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	n/a 382	n/a	n/a	60.99	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 421	n/a	n/a	92.64	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a 357	n/a	n/a	97.2	n/a	n/a	NaN	NP Inter(NDs)

YATES LANDFILL GYPSUM STACK GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0047	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.21	2
Beryllium, Total (mg/L)	0.004		0.0011	0.004
Cadmium, Total (mg/L)	0.005		0.00063	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)	n/a	0.015	0.0013	0.015
Lithium, Total (mg/L)	n/a	0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.00064	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.014	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Grey cell indicates Background Limit is higher than MCL*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/2/2023, 12:43 PM

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	0.003	0.006	No	35	0.002963	0.0002197	97.14	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-4R	0.003	0.0017	0.006	No	35	0.00271	0.0007485	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-5R	0.003	0.00054	0.006	No	30	0.002828	0.000654	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-1R	0.005	0.0047	0.01	No	30	0.004085	0.001613	70	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-2R	0.005	0.005	0.01	No	35	0.004767	0.0009606	94.29	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-3R	0.005	0.0028	0.01	No	30	0.004327	0.001399	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-4R	0.005	0.0013	0.01	No	35	0.004636	0.001212	91.43	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-5R	0.005	0.0012	0.01	No	30	0.003189	0.001864	43.33	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-6R	0.005	0.0023	0.01	No	36	0.003997	0.00178	75	None	No	0.01	NP (NDs)
Barium (mg/L)	GWC-1R	0.05834	0.04169	2	No	30	0.05002	0.01852	0	None	No	0.01	Param.
Barium (mg/L)	GWC-2R	0.0642	0.04693	2	No	35	0.05778	0.02393	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	GWC-3R	0.03312	0.01828	2	No	30	0.02877	0.02327	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	GWC-4R	0.03767	0.02515	2	No	35	0.03289	0.01663	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-5R	0.036	0.014	2	No	30	0.02739	0.01737	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-6R	0.05439	0.03757	2	No	36	0.04598	0.02069	0	None	No	0.01	Param.
Beryllium (mg/L)	GWC-1R	0.003	0.00013	0.004	No	30	0.001403	0.001423	43.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-2R	0.003	0.00025	0.004	No	35	0.002035	0.001357	65.71	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-3R	0.0011	0.00039	0.004	No	30	0.001118	0.001084	23.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-4R	0.003	0.00013	0.004	No	35	0.0025	0.001114	82.86	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-5R	0.003	0.0005	0.004	No	30	0.001913	0.00125	23.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-1R	0.0025	0.00026	0.005	No	30	0.001877	0.001051	73.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-2R	0.0005	0.00016	0.005	No	35	0.0004271	0.0001483	80	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-3R	0.0005	0.00022	0.005	No	30	0.0003833	0.0001534	60	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-4R	0.0005	0.0005	0.005	No	35	0.0004774	0.00009303	94.29	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-5R	0.0009085	0.0006444	0.005	No	30	0.0008493	0.0002855	26.67	Kaplan-Meier	x^2	0.01	Param.
Chromium (mg/L)	GWC-1R	0.01	0.0011	0.1	No	30	0.00479	0.004344	40	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-2R	0.005	0.0017	0.1	No	35	0.004402	0.001497	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-3R	0.0023	0.0011	0.1	No	30	0.002424	0.001749	30	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-4R	0.005	0.0013	0.1	No	35	0.004331	0.001603	80	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-5R	0.0028	0.0019	0.1	No	30	0.003477	0.002988	16.67	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-6R	0.0028	0.0014	0.1	No	36	0.004144	0.003957	30.56	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-1R	0.005	0.00081	0.035	No	30	0.002852	0.003001	33.33	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-2R	0.02461	0.01455	0.035	No	35	0.01958	0.0122	2.857	None	No	0.01	Param.
Cobalt (mg/L)	GWC-3R	0.0074	0.0041	0.035	No	30	0.005258	0.002268	66.67	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-4R	0.002972	0.001492	0.035	No	35	0.003067	0.002045	25.71	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	GWC-5R	0.005	0.00085	0.035	No	30	0.003809	0.002011	73.33	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-6R	0.005	0.005	0.035	No	36	0.0049	0.0006	97.22	Kaplan-Meier	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GWC-1R	0.9703	0.5705	6.92	No	17	0.7888	0.3352	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2R	1.312	0.6179	6.92	No	17	1.01	0.5811	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-3R	0.9386	0.2495	6.92	No	17	0.671	0.6611	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-4R	0.5734	0.2436	6.92	No	17	0.4085	0.2631	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-5R	0.9404	0.3763	6.92	No	17	0.6583	0.4502	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-6R	1.022	0.4681	6.92	No	17	0.7826	0.522	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GWC-1R	0.1	0.06	4	No	20	0.0905	0.01986	80	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-2R	0.58	0.08	4	No	20	0.114	0.1119	75	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-3R	0.1362	0.05764	4	No	20	0.1302	0.1151	35	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	GWC-4R	0.11	0.08	4	No	20	0.094	0.02393	70	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-5R	0.11	0.056	4	No	20	0.1085	0.09006	45	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-6R	0.1	0.07	4	No	20	0.0977	0.04828	70	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-1R	0.001	0.000067	0.015	No	30	0.0009373	0.0002386	93.33	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-2R	0.001	0.0001	0.015	No	35	0.000815	0.0003755	80	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-3R	0.001	0.00015	0.015	No	30	0.0007875	0.000392	76.67	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-4R	0.001	0.001	0.015	No	35	0.0009726	0.0001621	97.14	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-5R	0.001	0.00019	0.015	No	30	0.0008167	0.0003735	80	None	No	0.01	NP (NDs)

Confidence Intervals - All Results (No Significant)

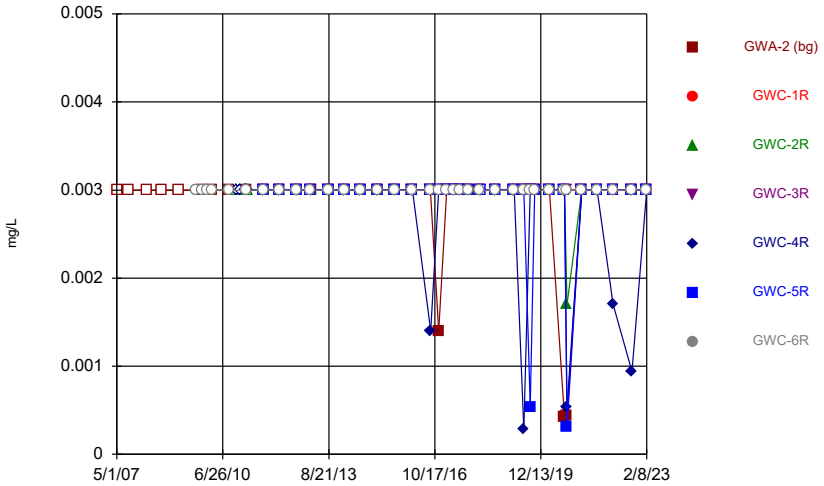
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/2/2023, 12:43 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	GWC-1R	0.0024	0.0013	0.04	No	18	0.009691	0.01855	16.67	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-2R	0.0053	0.0036	0.04	No	18	0.01174	0.01761	16.67	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-3R	0.03	0.0012	0.04	No	18	0.02356	0.0124	77.78	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-4R	0.03	0.0011	0.04	No	18	0.02036	0.01403	66.67	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-5R	0.05	0.0014	0.04	No	18	0.02305	0.0248	44.44	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-6R	0.0083	0.0017	0.04	No	18	0.05763	0.1058	22.22	None	No	0.01	NP (normality)
Mercury (mg/L)	GWC-1R	0.0002	0.0002	0.002	No	30	0.0001953	0.00002574	96.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-2R	0.0002	0.0002	0.002	No	35	0.0001963	0.0000218	97.14	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-3R	0.0002	0.000064	0.002	No	30	0.0001969	0.00006044	90	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-4R	0.0002	0.00014	0.002	No	35	0.0001925	0.00002733	88.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-5R	0.0002	0.0002	0.002	No	30	0.0001953	0.00002556	96.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-6R	0.0002	0.0002	0.002	No	36	0.0001911	0.00003796	94.44	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-1R	0.011	0.0066	0.05	No	30	0.009807	0.006641	43.33	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-2R	0.01	0.0032	0.05	No	35	0.006329	0.003505	45.71	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-3R	0.01	0.0045	0.05	No	30	0.007433	0.003802	36.67	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-4R	0.01	0.0041	0.05	No	35	0.007123	0.003798	22.86	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-5R	0.02499	0.01735	0.05	No	30	0.02117	0.008496	3.333	None	No	0.01	Param.
Selenium (mg/L)	GWC-6R	0.005	0.0037	0.05	No	36	0.004158	0.001242	55.56	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-2R	0.001	0.001	0.002	No	33	0.0009718	0.0001619	96.97	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-5R	0.001	0.000053	0.002	No	29	0.0009673	0.0001759	96.55	None	No	0.01	NP (NDs)

FIGURE A.

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 5/2/2023 10:11 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
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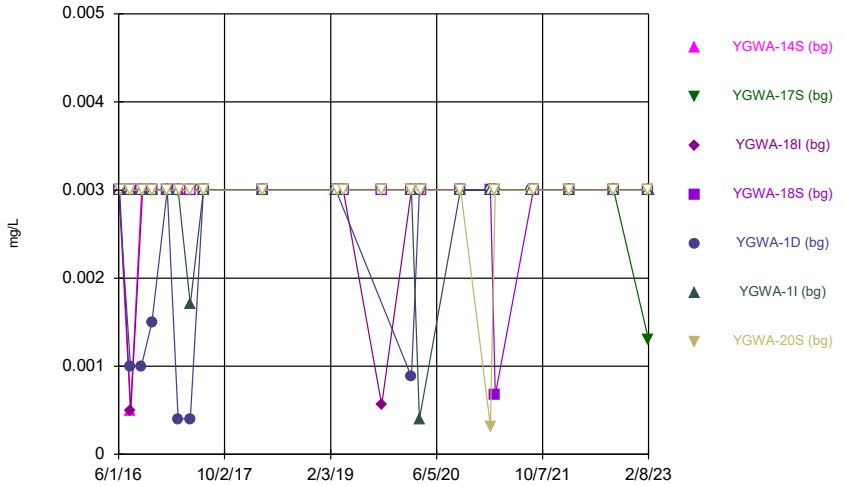

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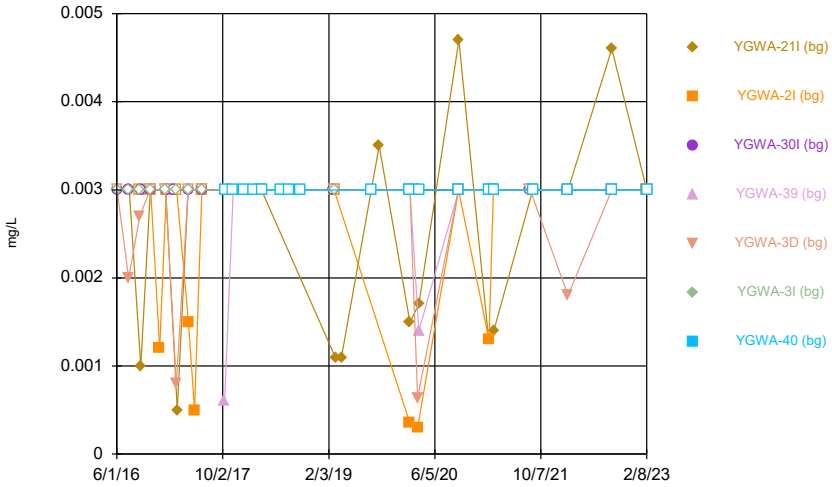

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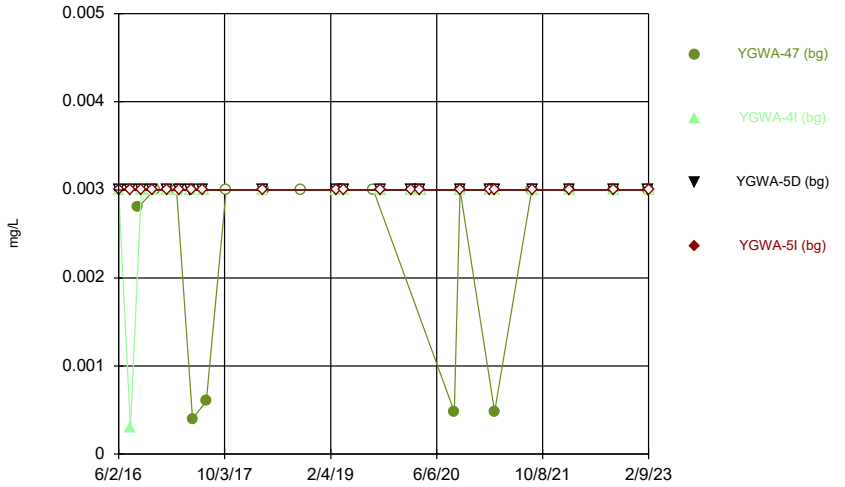

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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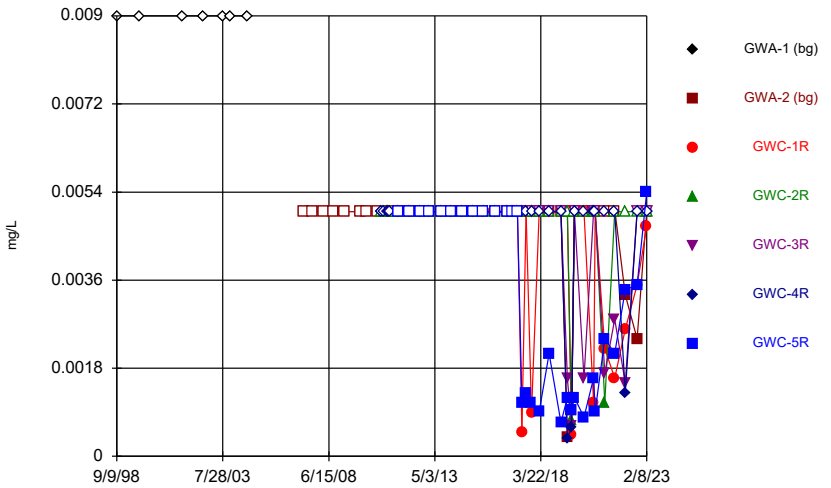

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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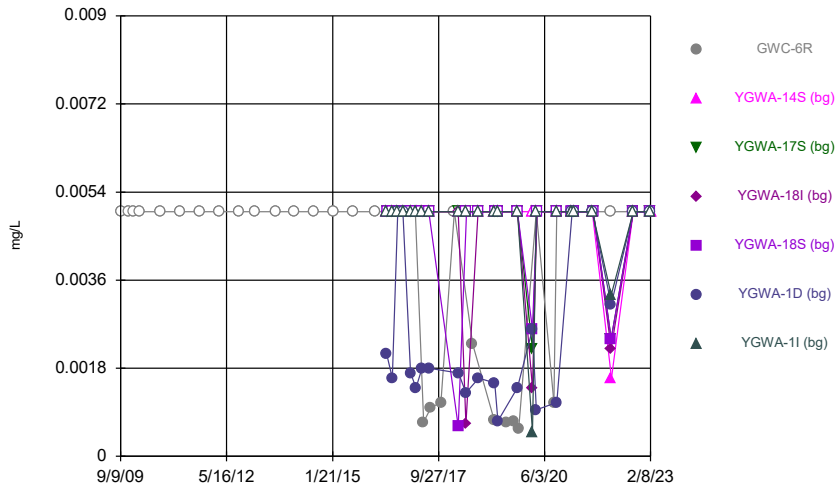

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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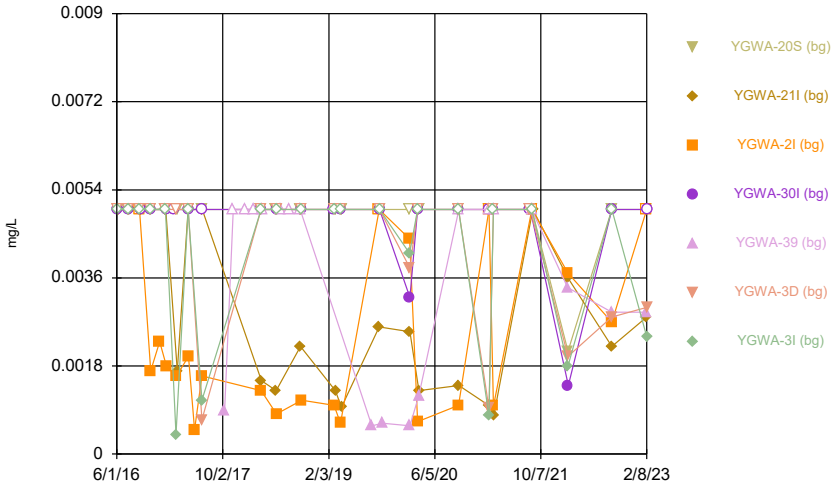

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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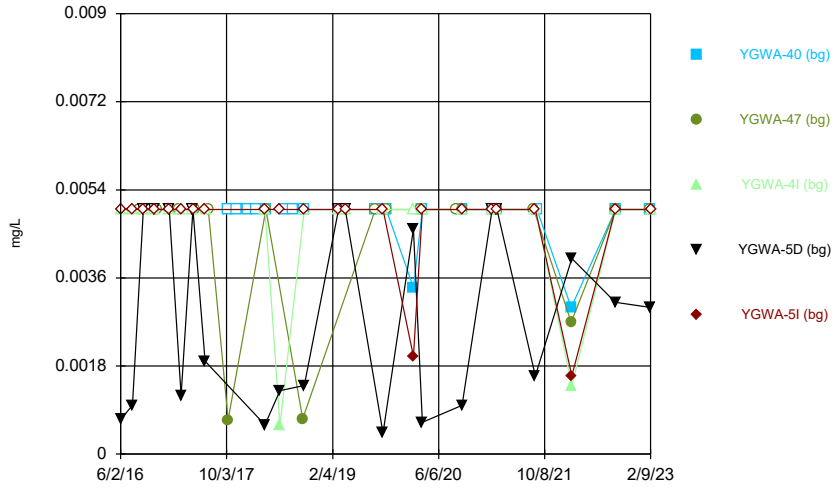

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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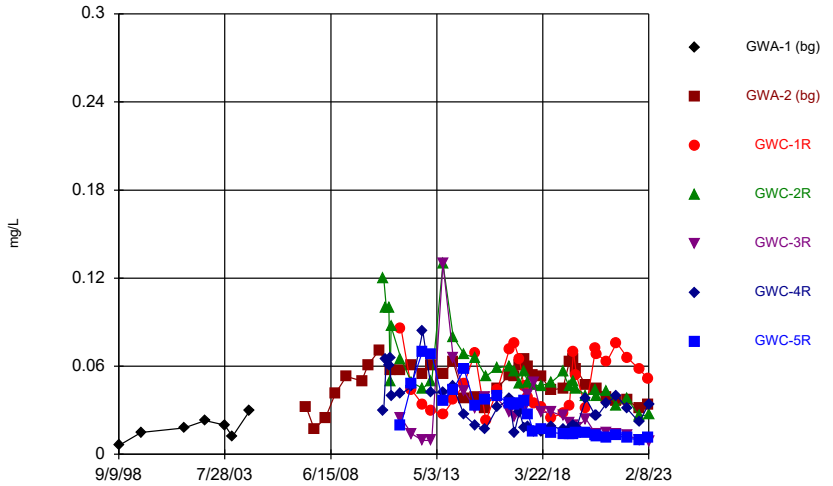
Time Series



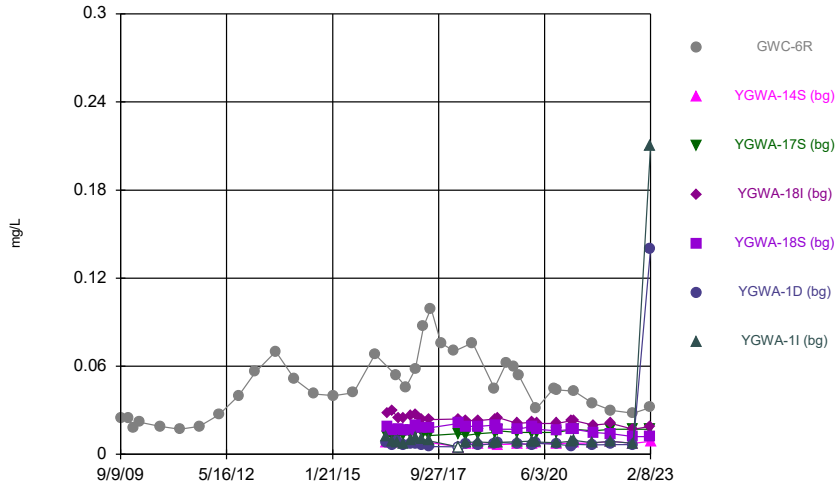
Constituent: Barium Analysis Run 5/2/2023 10:12 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

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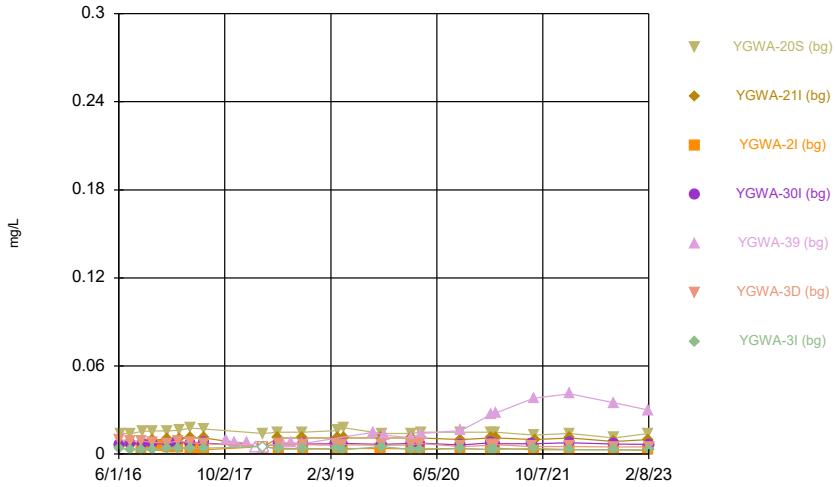

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

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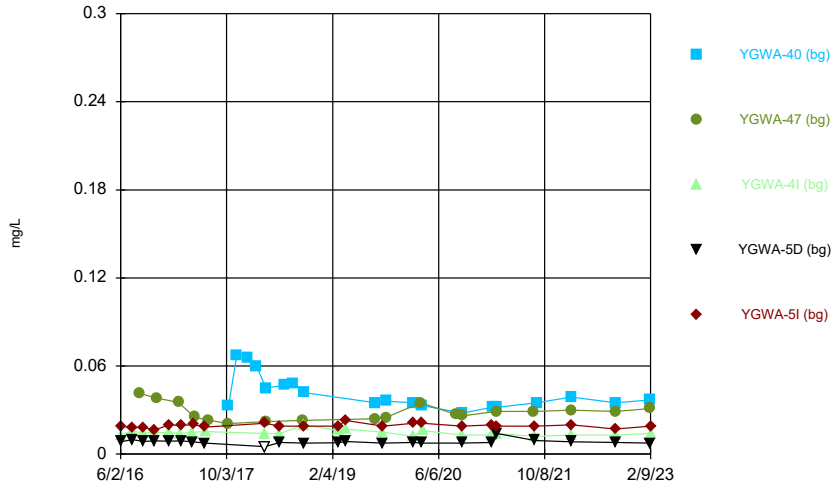

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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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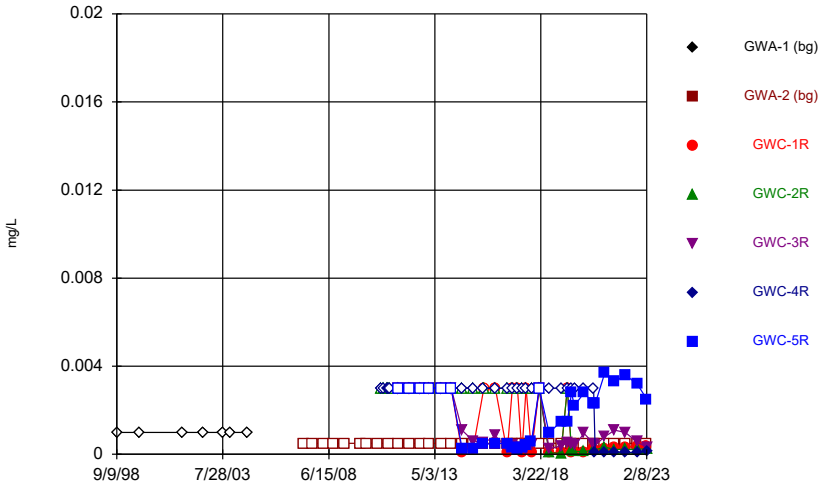

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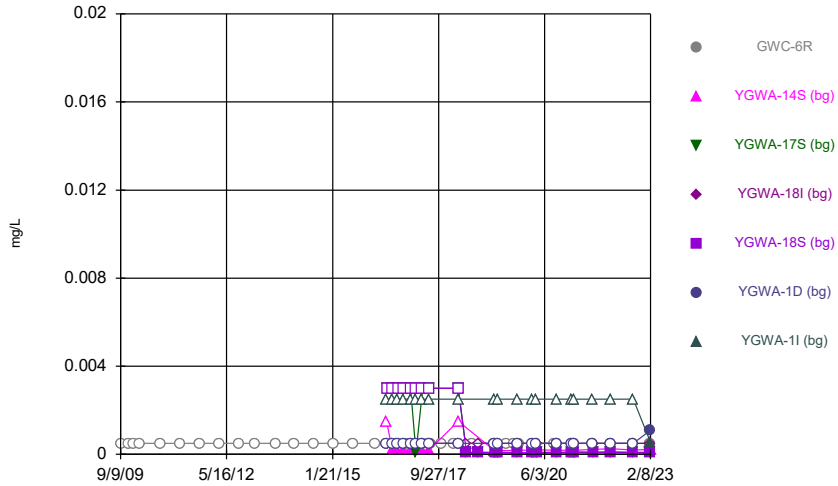
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
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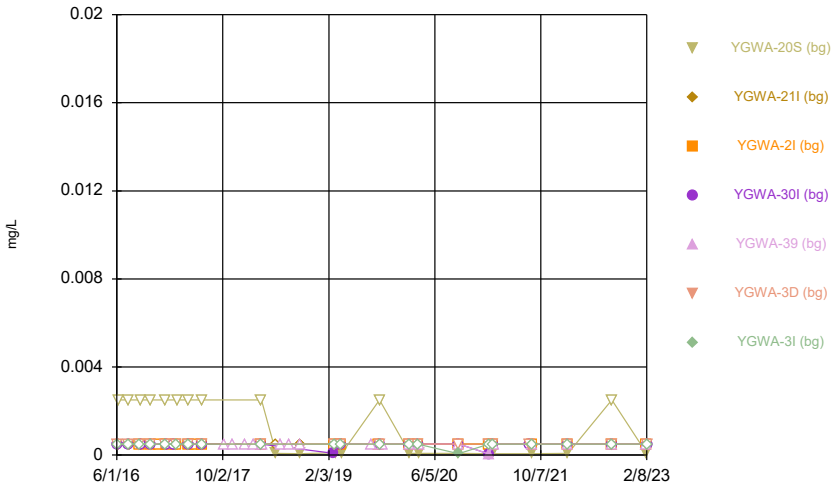
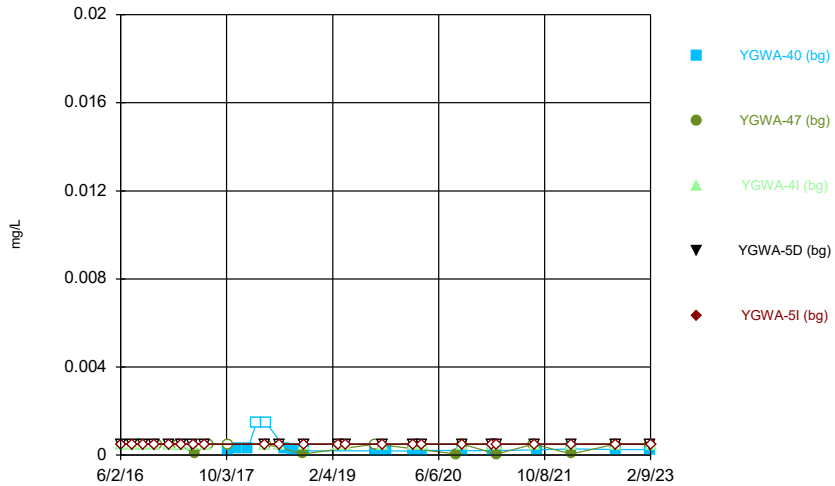
Time Series



Constituent: Beryllium Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

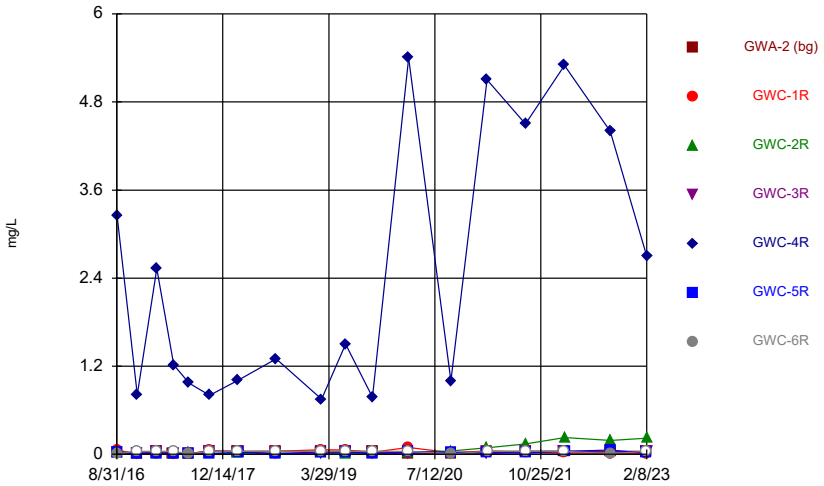
Time Series



Constituent: Beryllium Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

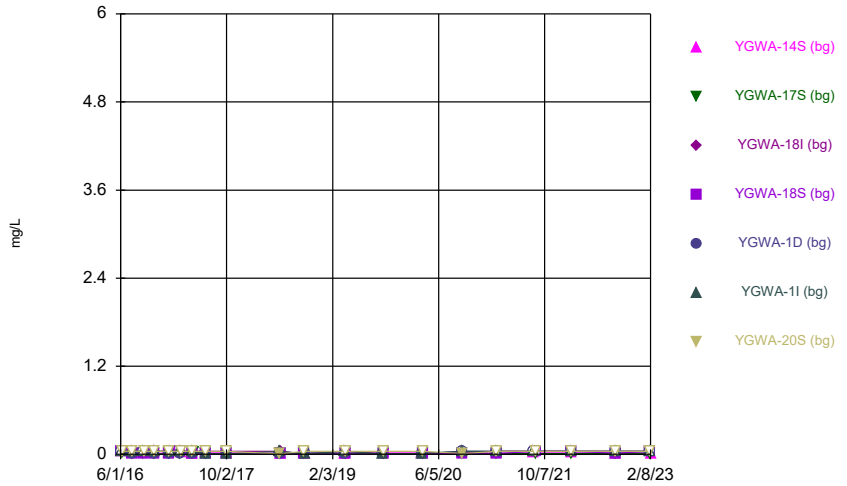
Time Series



Constituent: Boron Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

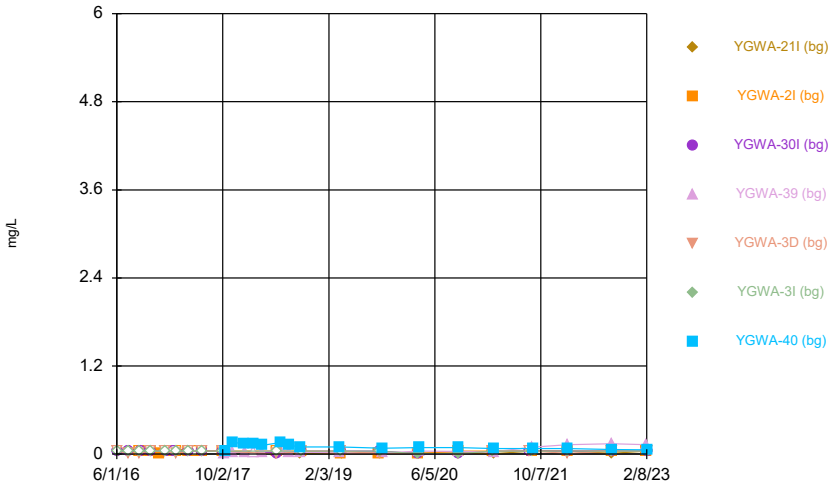
Time Series



Constituent: Boron Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

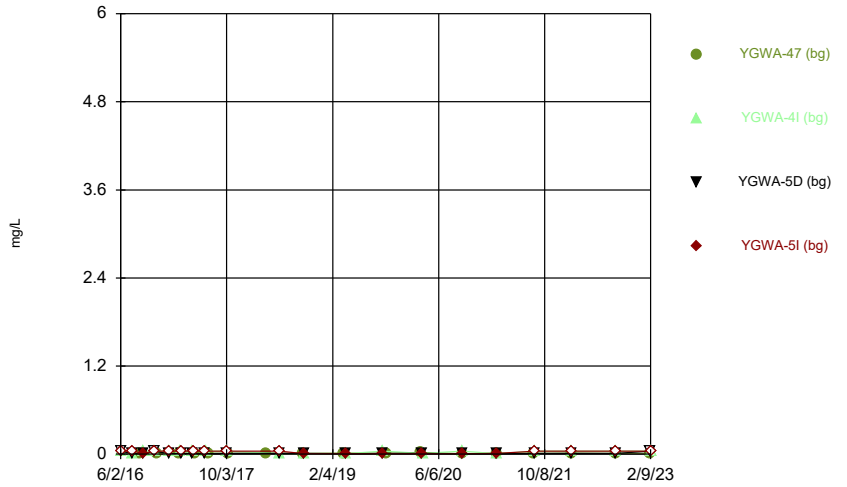
Time Series



Constituent: Boron Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

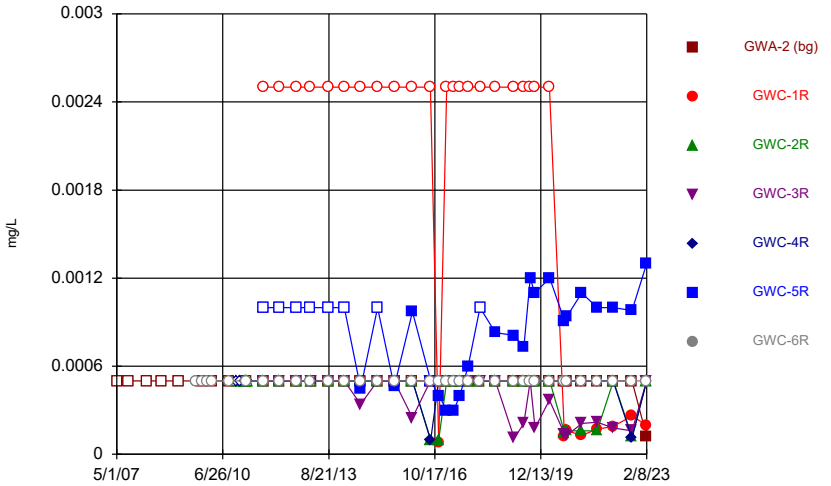
Time Series



Constituent: Boron Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

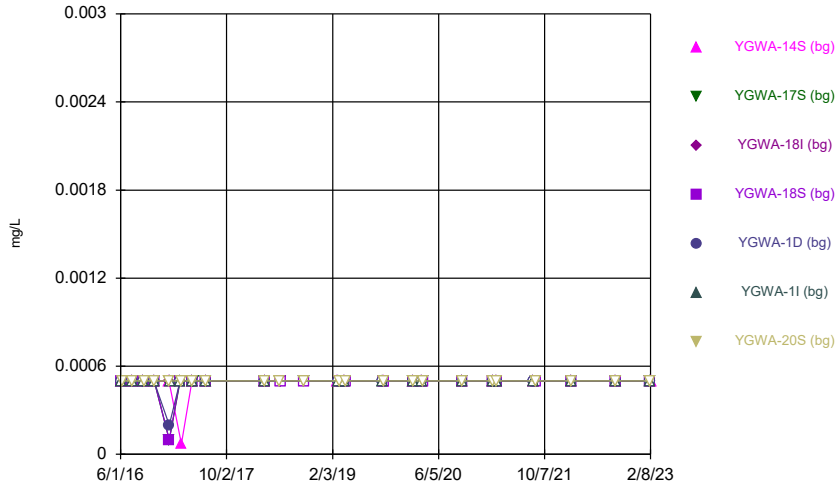
Time Series



Constituent: Cadmium Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

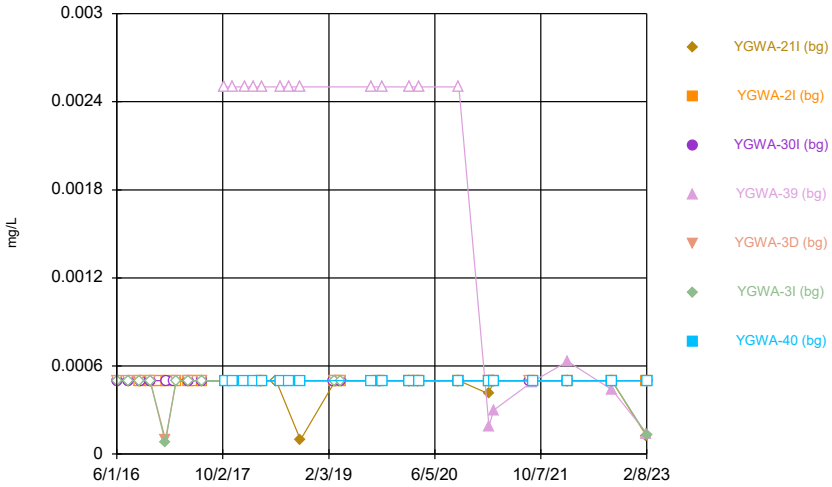
Time Series



Constituent: Cadmium Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

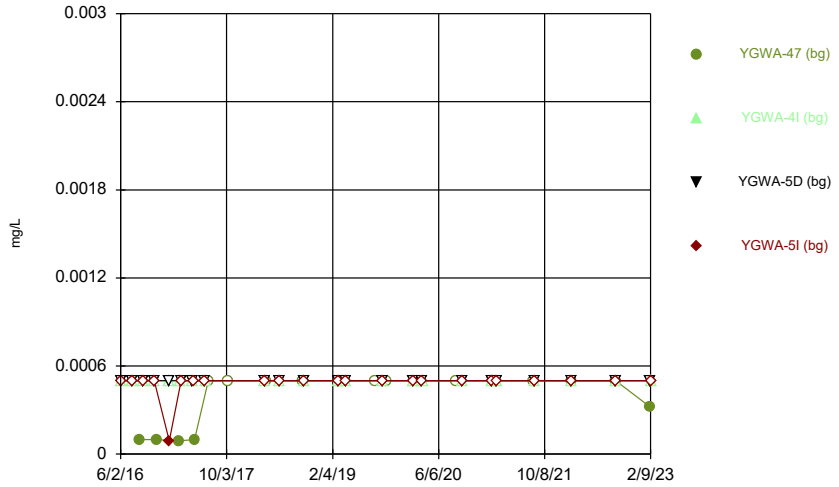
Time Series



Constituent: Cadmium Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

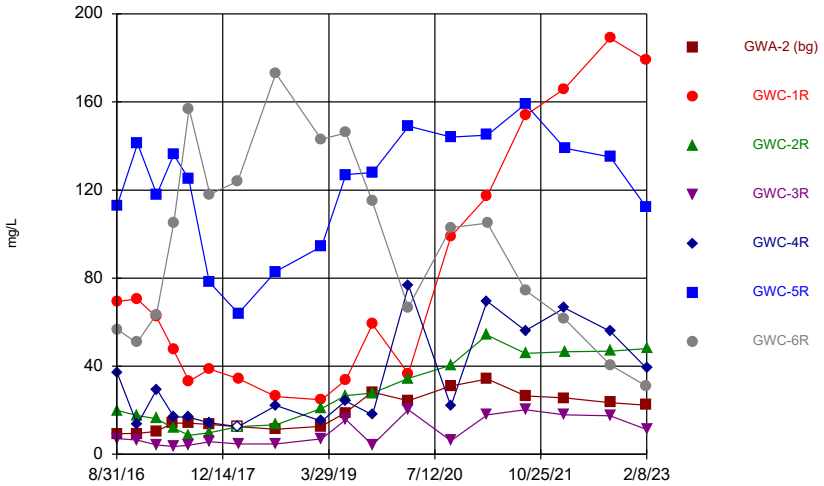
Time Series



Constituent: Cadmium Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

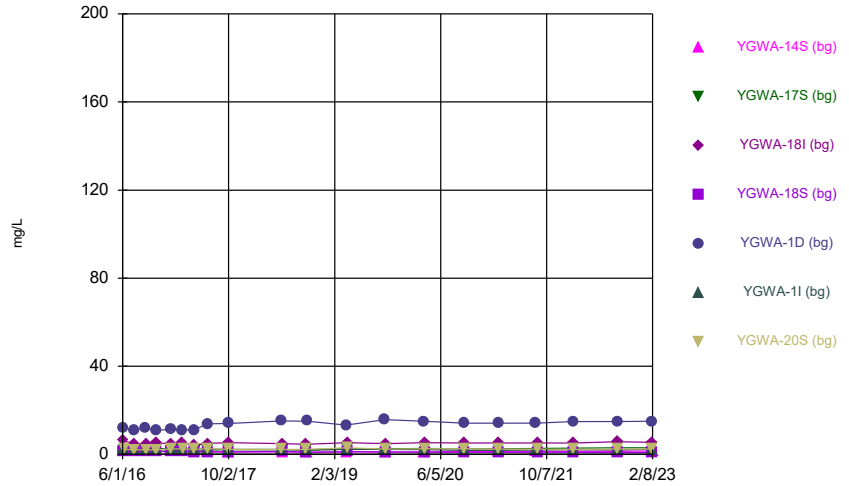
Time Series



Constituent: Calcium Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

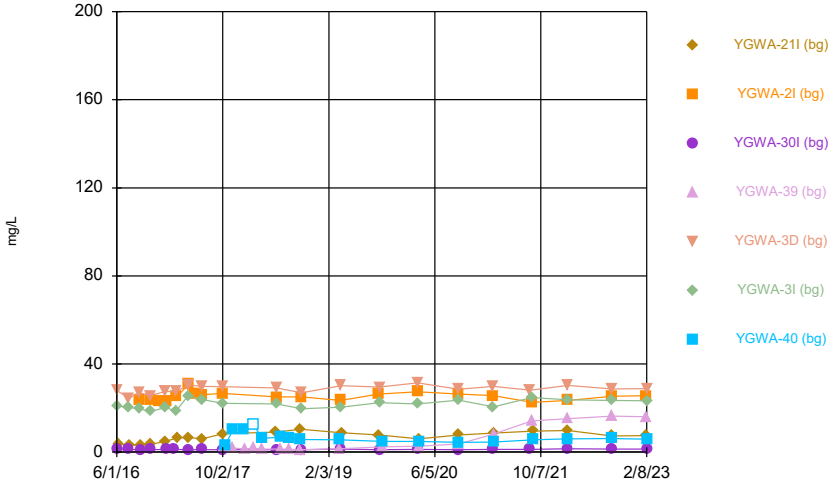
Time Series



Constituent: Calcium Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

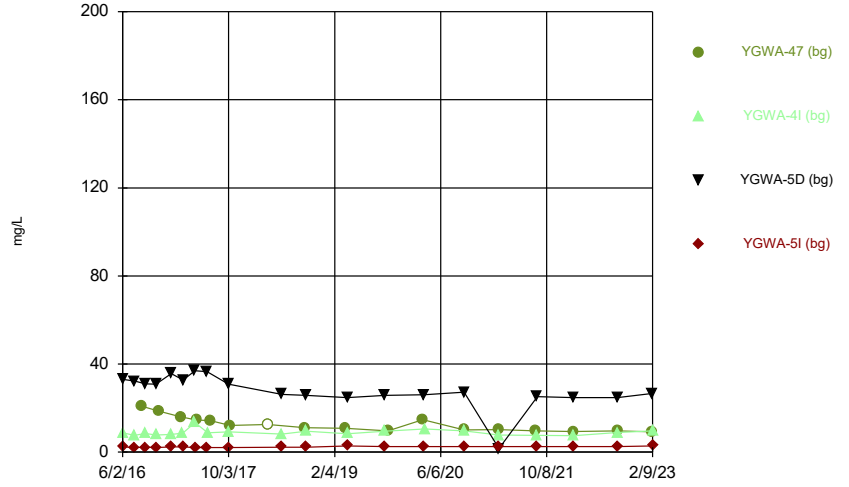
Time Series



Constituent: Calcium Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

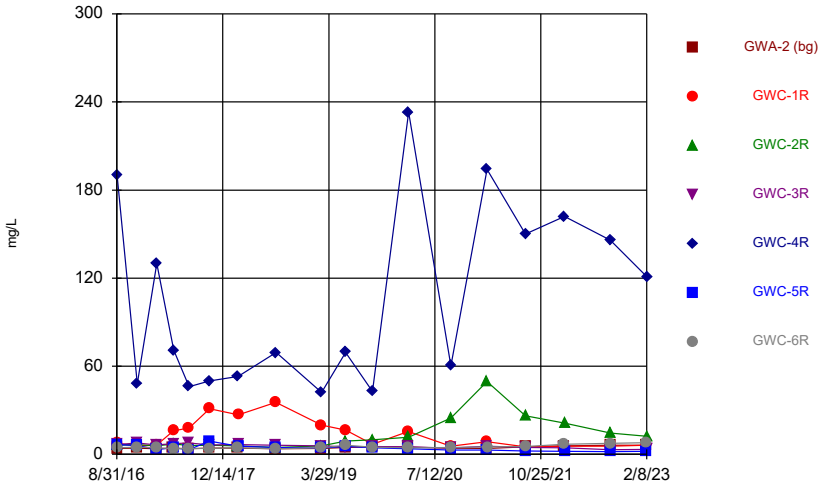
Time Series



Constituent: Calcium Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

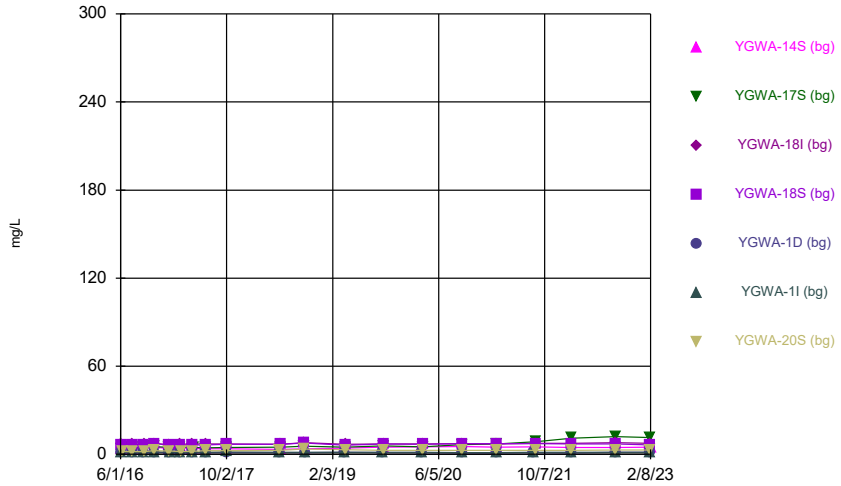


Constituent: Chloride Analysis Run 5/2/2023 10:12 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

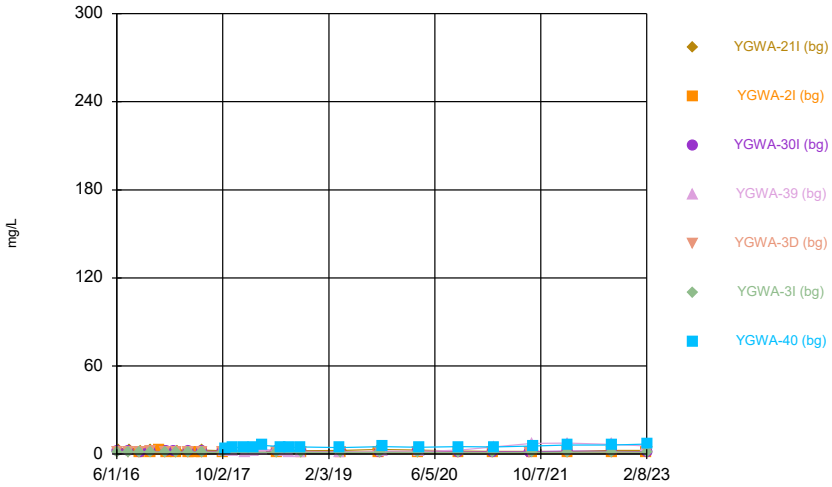


Constituent: Chloride Analysis Run 5/2/2023 10:12 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

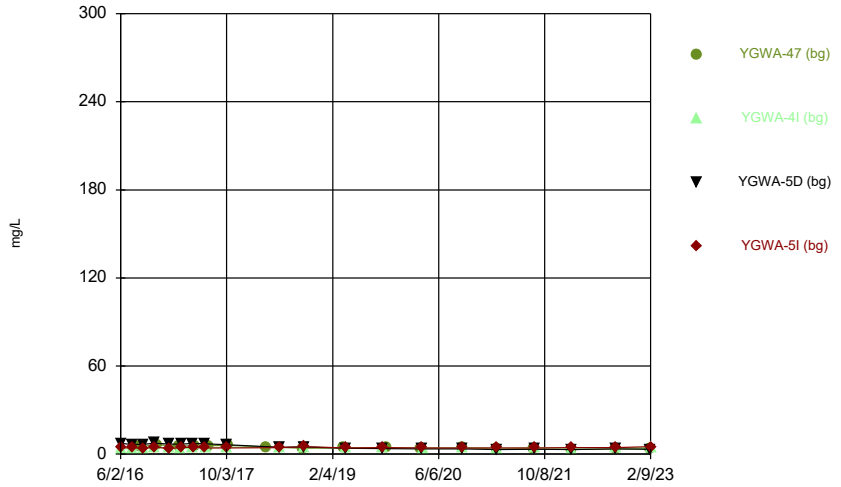


Constituent: Chloride Analysis Run 5/2/2023 10:12 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

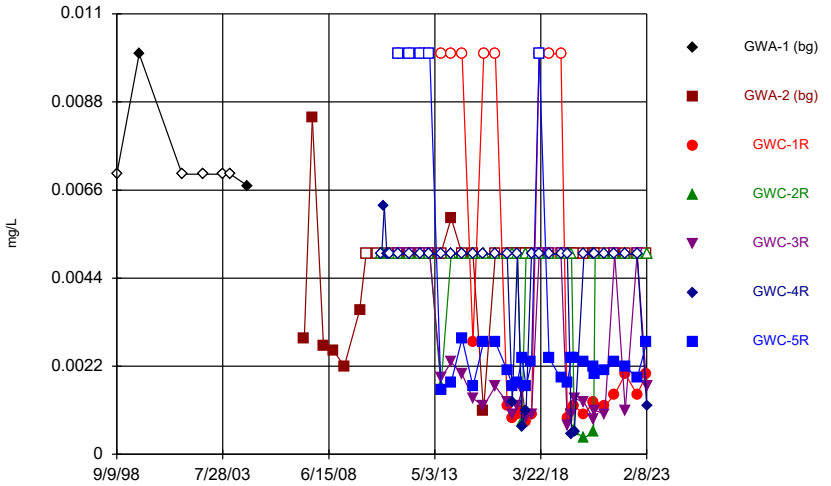


Constituent: Chloride Analysis Run 5/2/2023 10:12 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

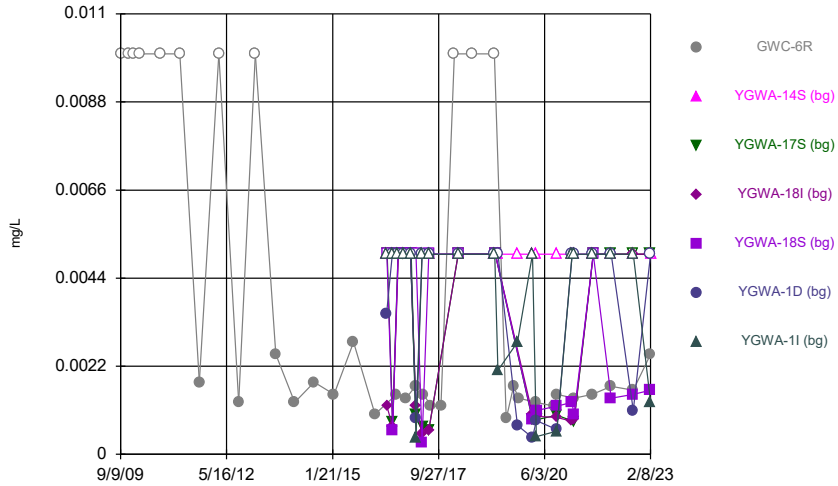
Time Series



Constituent: Chromium Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

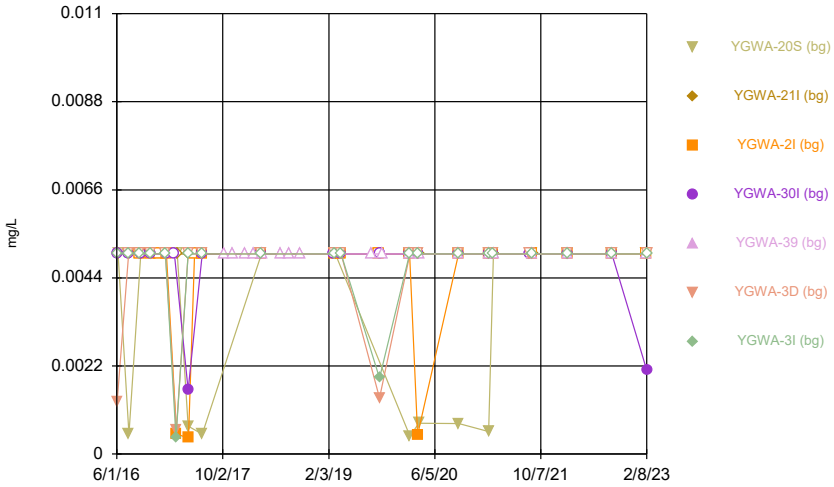
Time Series



Constituent: Chromium Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

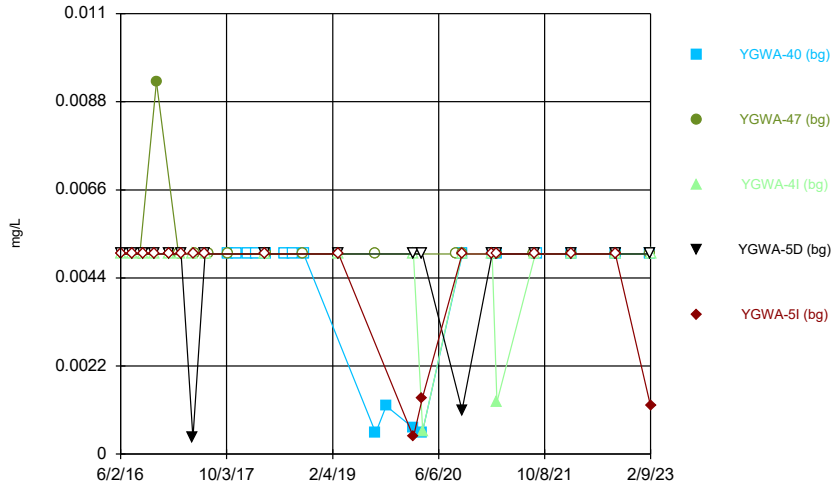
Time Series



Constituent: Chromium Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

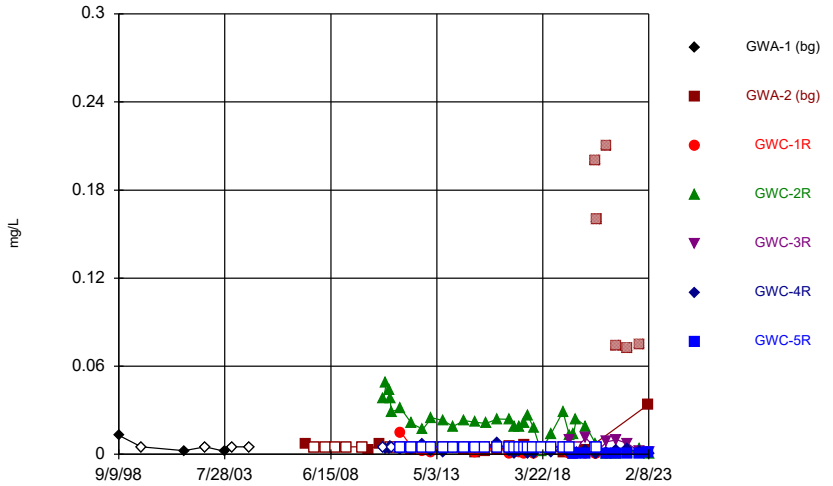
Time Series



Constituent: Chromium Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

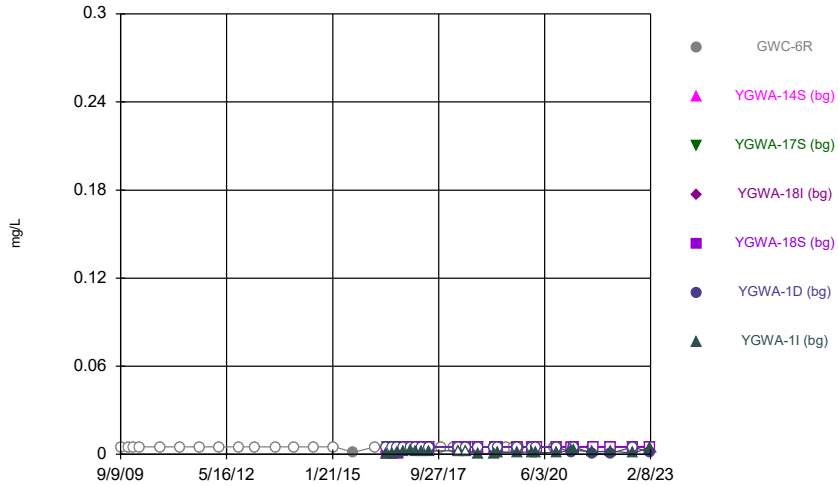
Time Series



Constituent: Cobalt Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

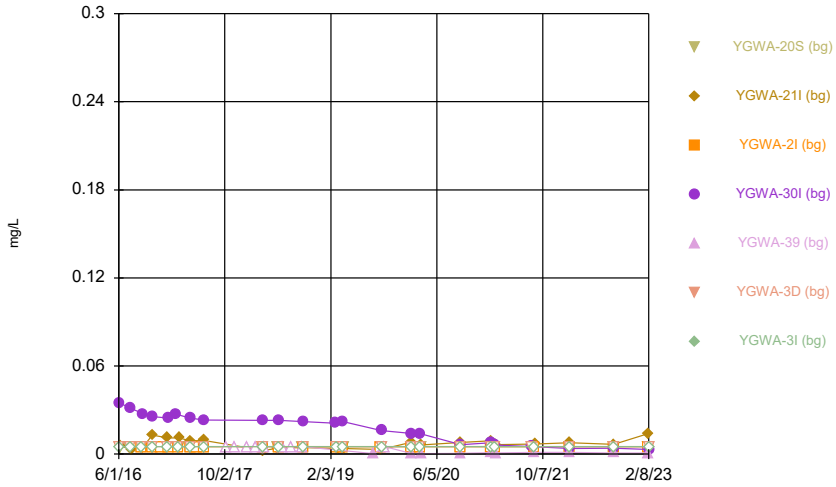
Time Series



Constituent: Cobalt Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

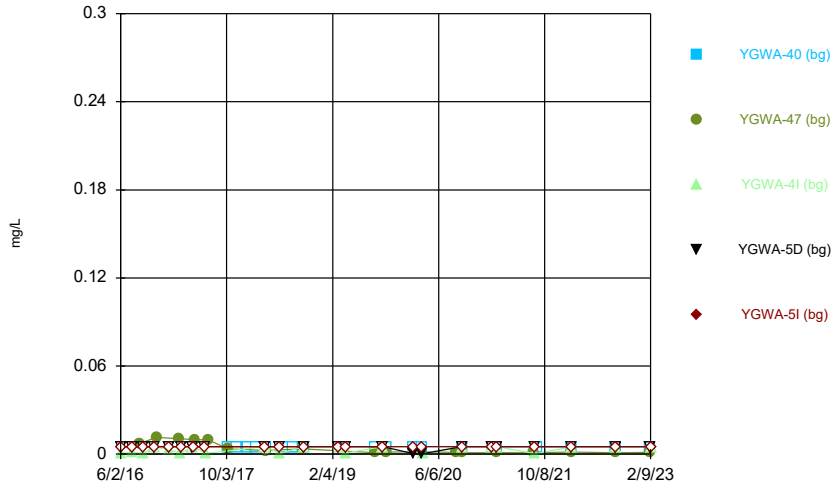
Time Series



Constituent: Cobalt Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

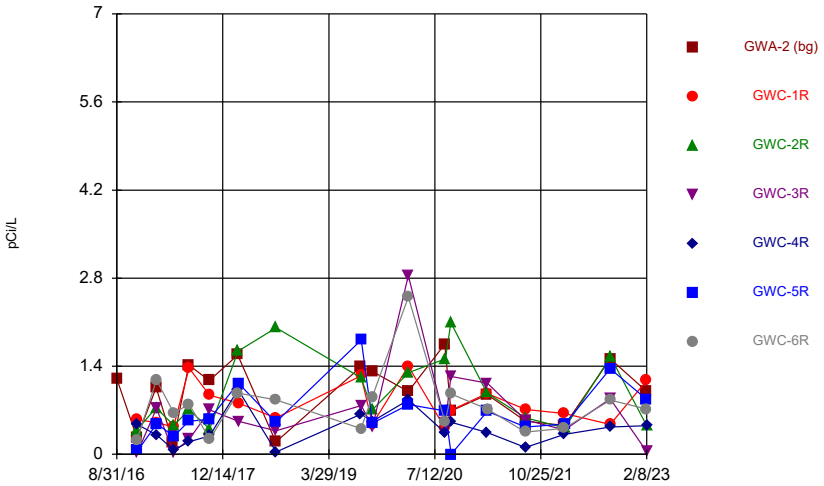
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

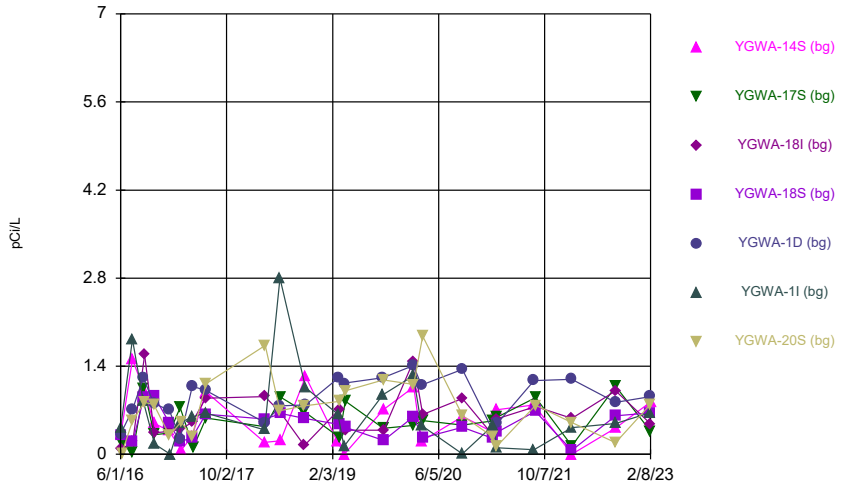
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

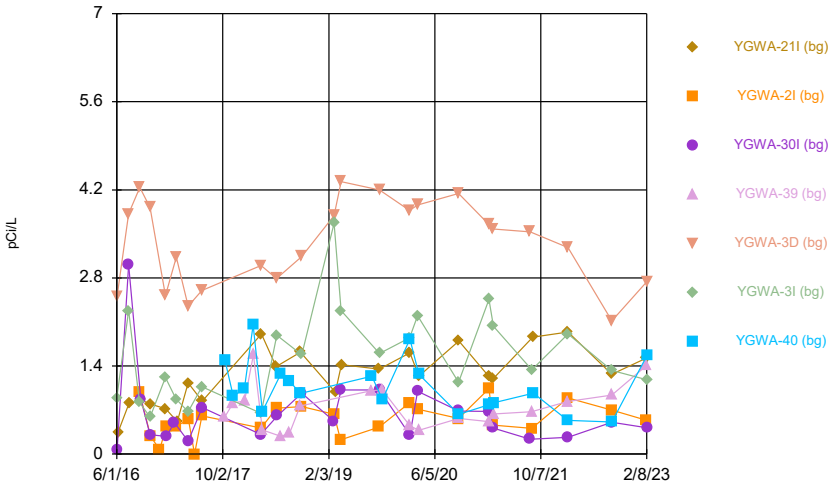
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

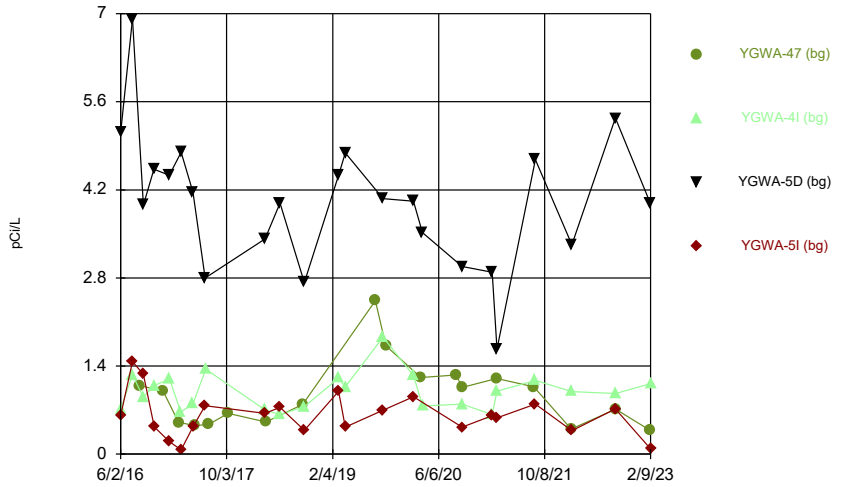
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

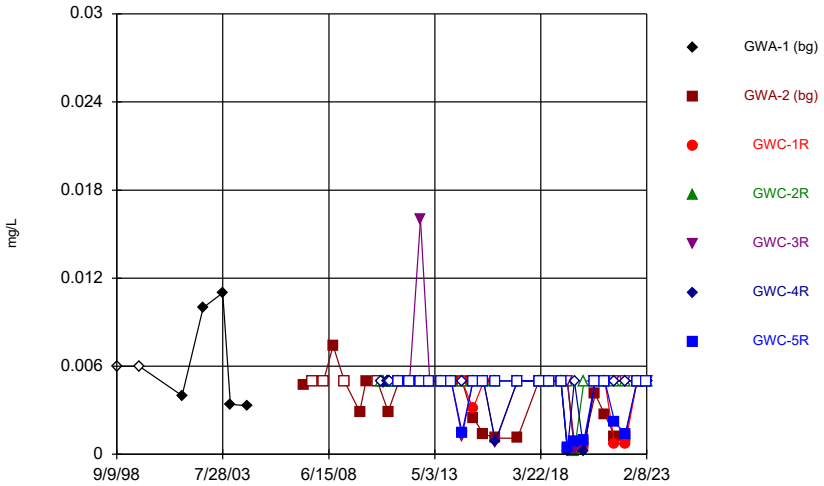
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

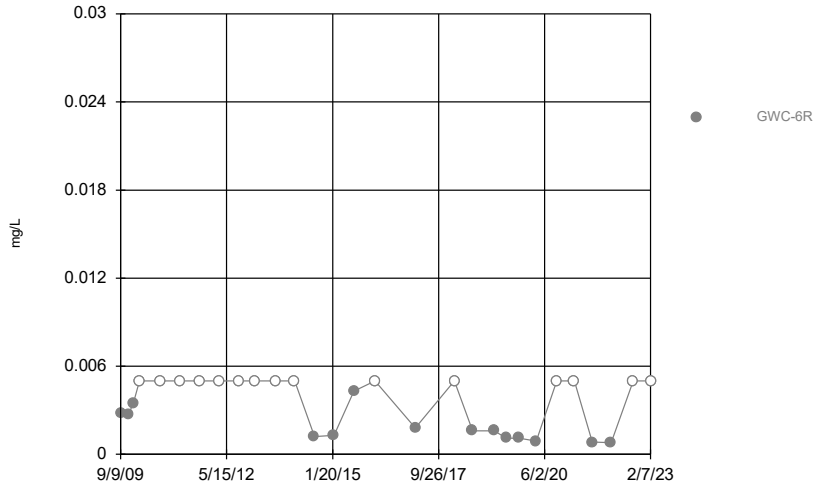
Time Series



Constituent: Copper Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

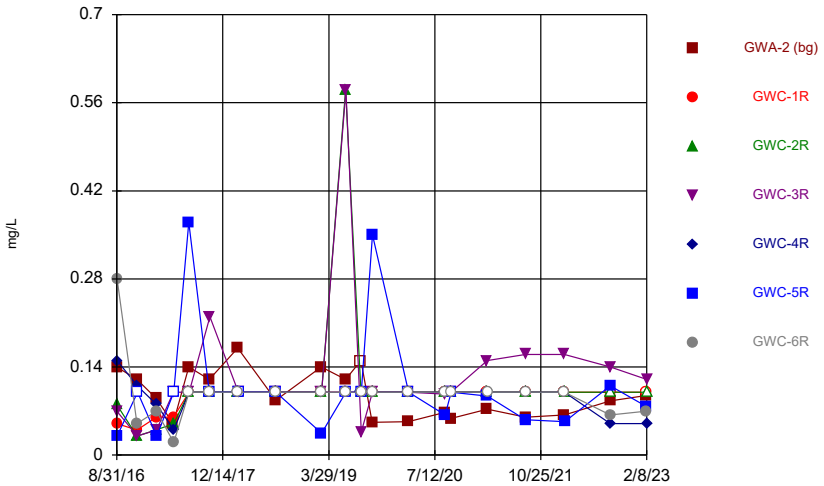
Time Series



Constituent: Copper Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

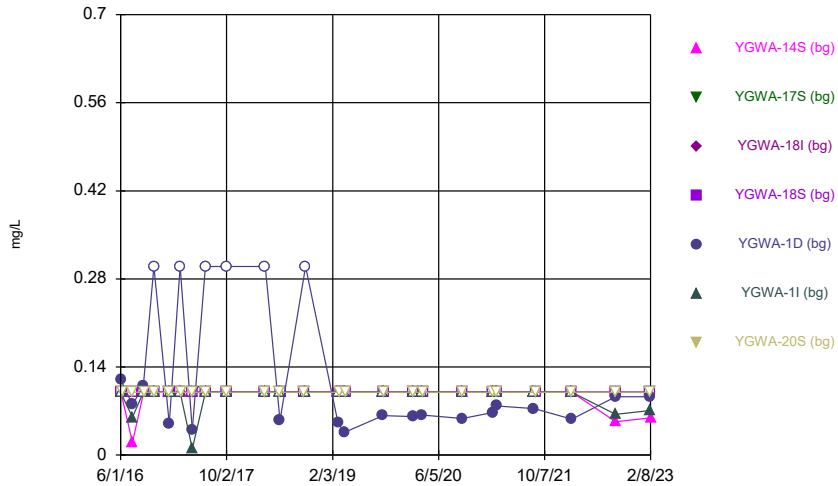
Time Series



Constituent: Fluoride Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

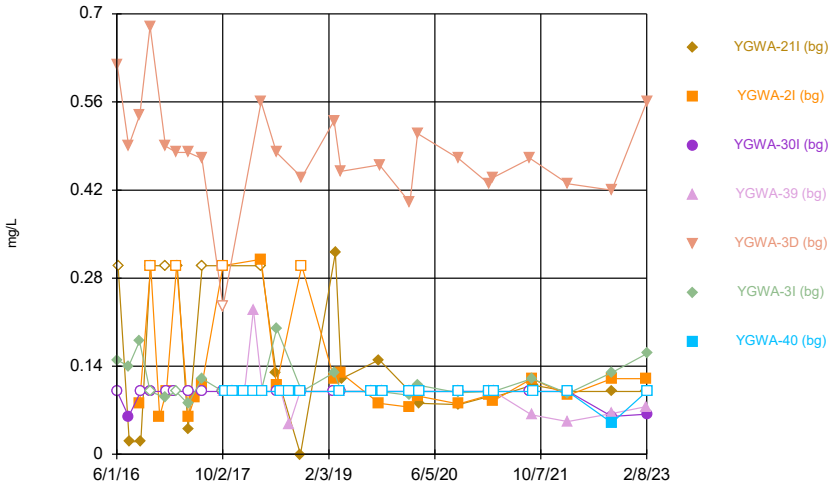
Time Series



Constituent: Fluoride Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

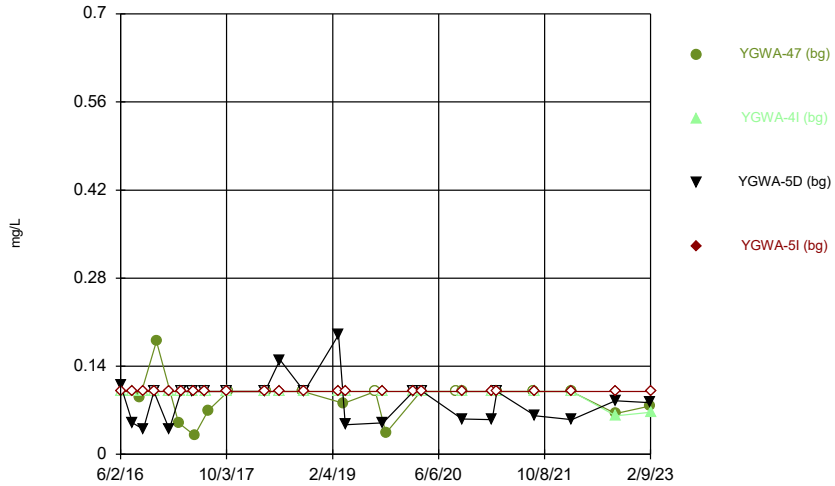
Time Series



Constituent: Fluoride Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

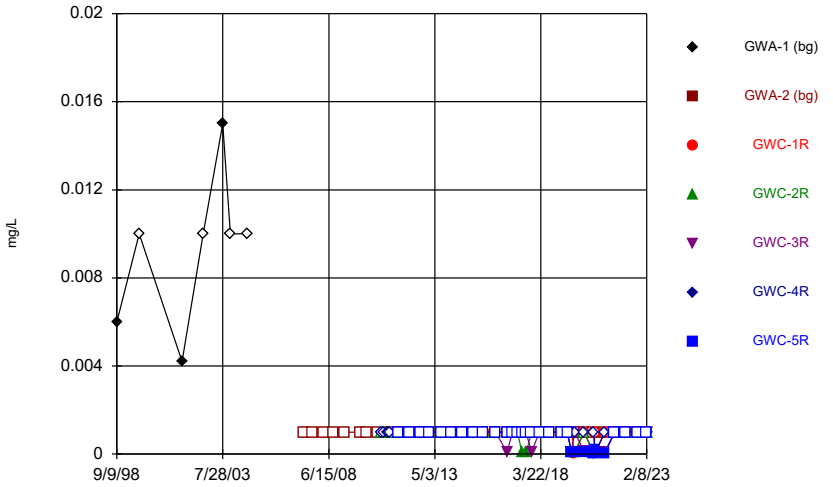
Time Series



Constituent: Fluoride Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

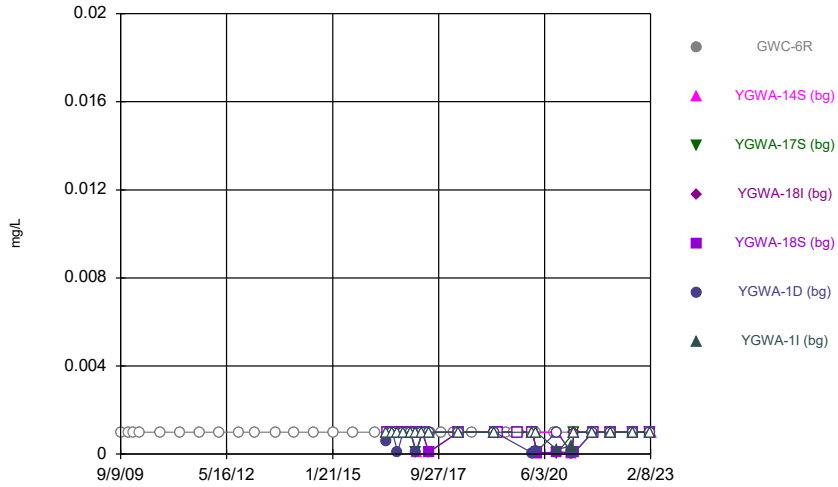
Time Series



Constituent: Lead Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

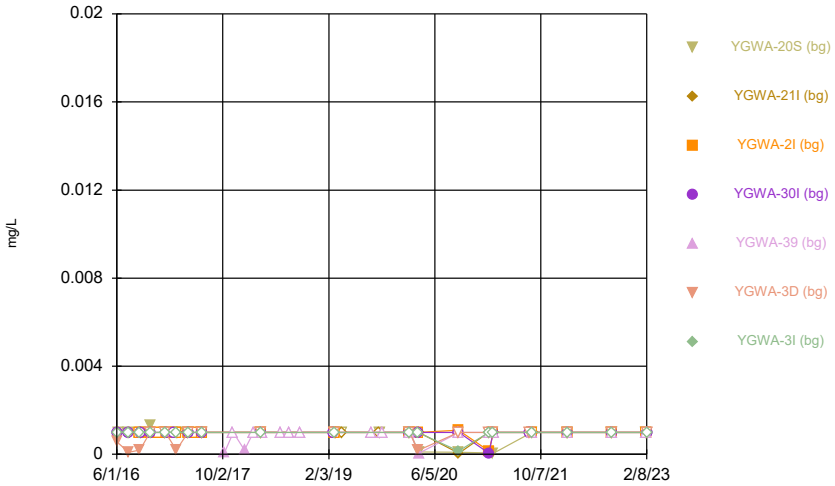
Time Series



Constituent: Lead Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

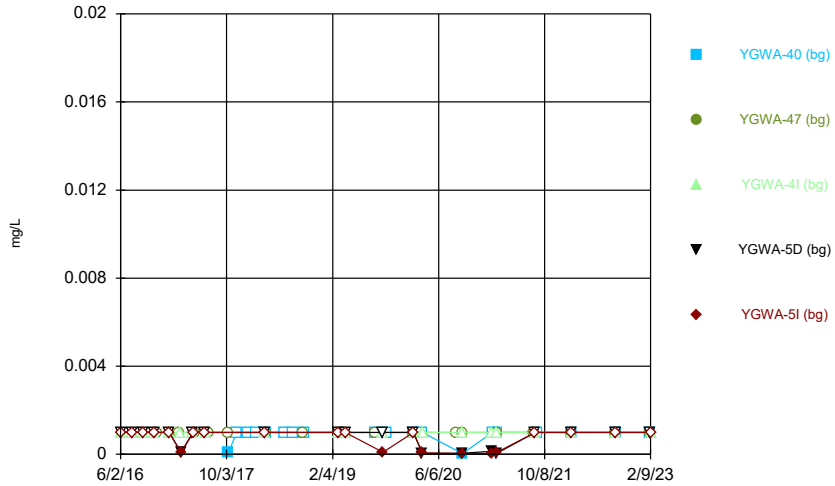
Time Series



Constituent: Lead Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

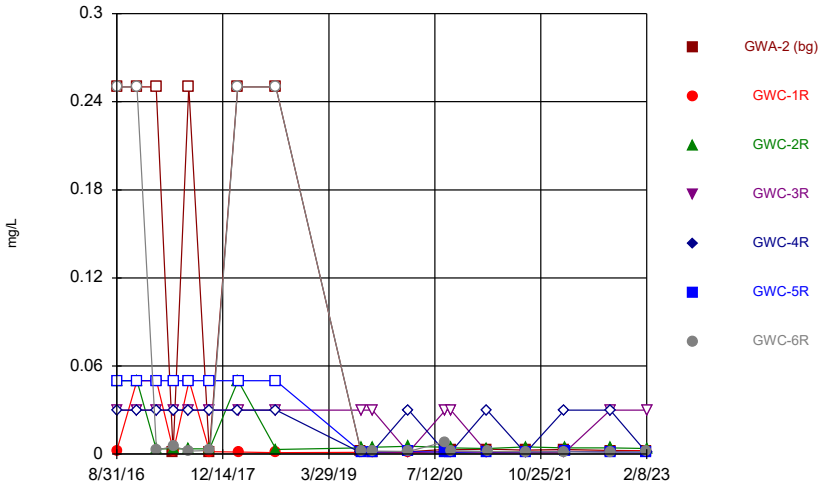
Time Series



Constituent: Lead Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

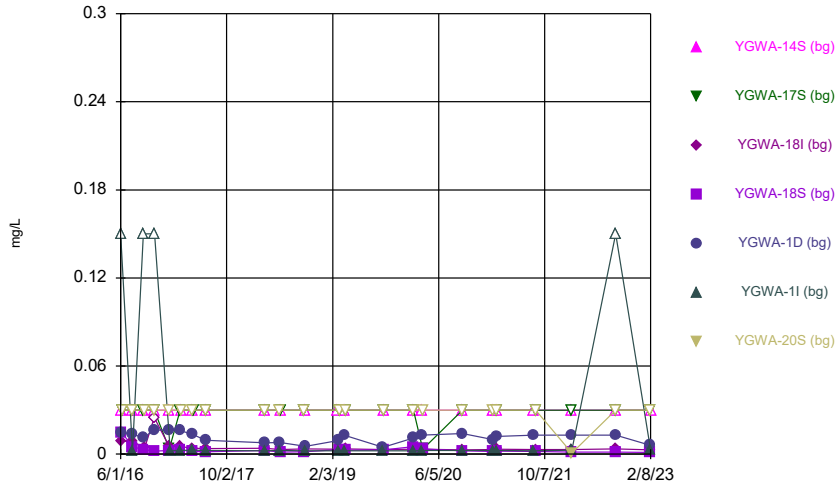
Time Series



Constituent: Lithium Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

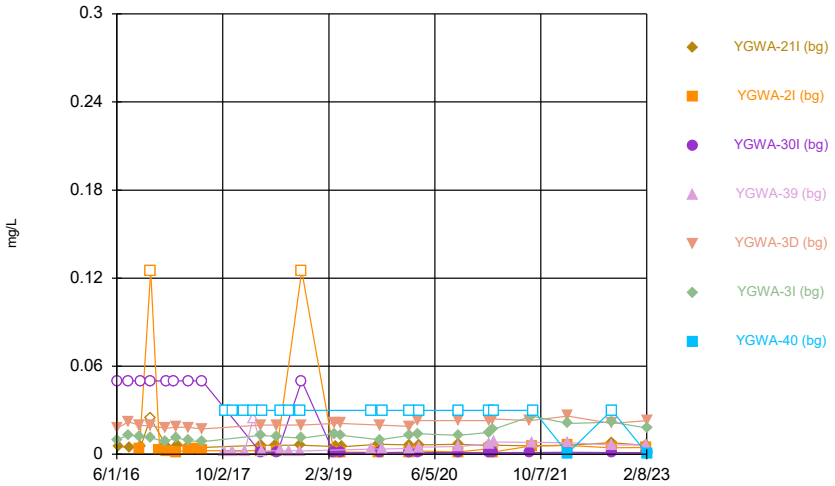
Time Series



Constituent: Lithium Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

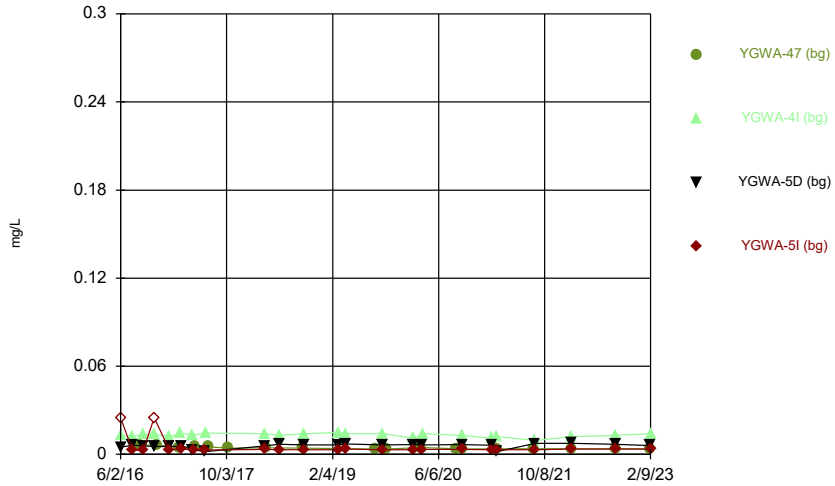
Time Series



Constituent: Lithium Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

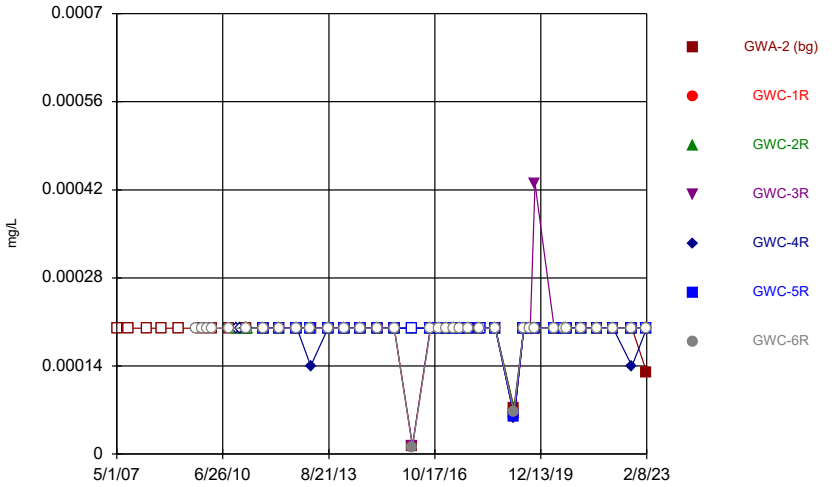
Time Series



Constituent: Lithium Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

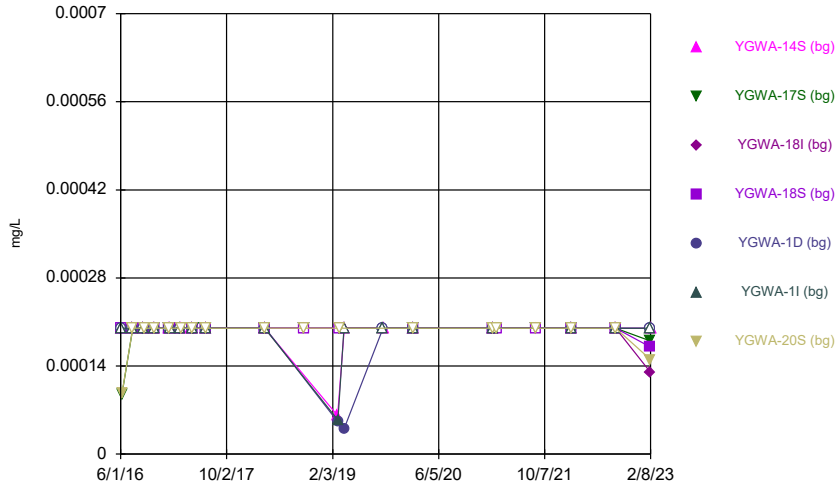
Time Series



Constituent: Mercury Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

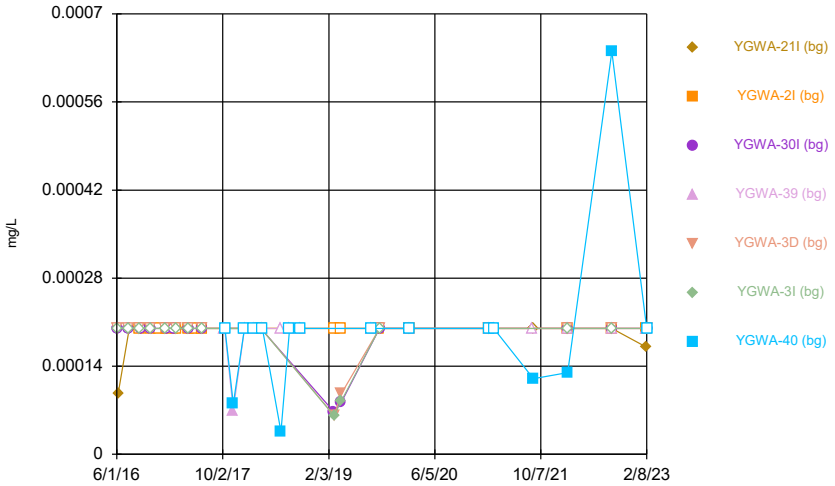
Time Series



Constituent: Mercury Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

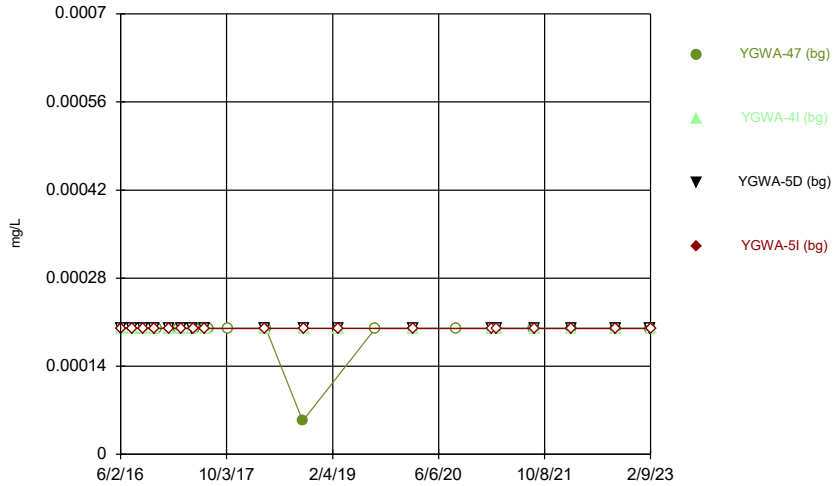
Time Series



Constituent: Mercury Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

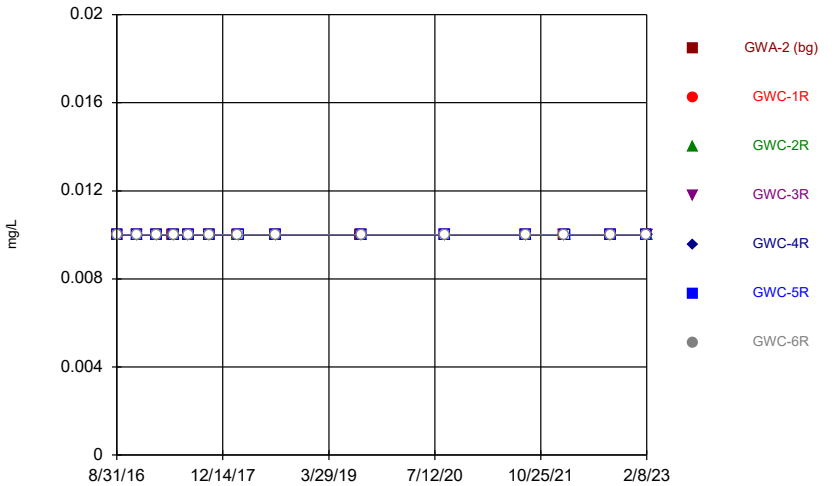
Time Series



Constituent: Mercury Analysis Run 5/2/2023 10:12 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

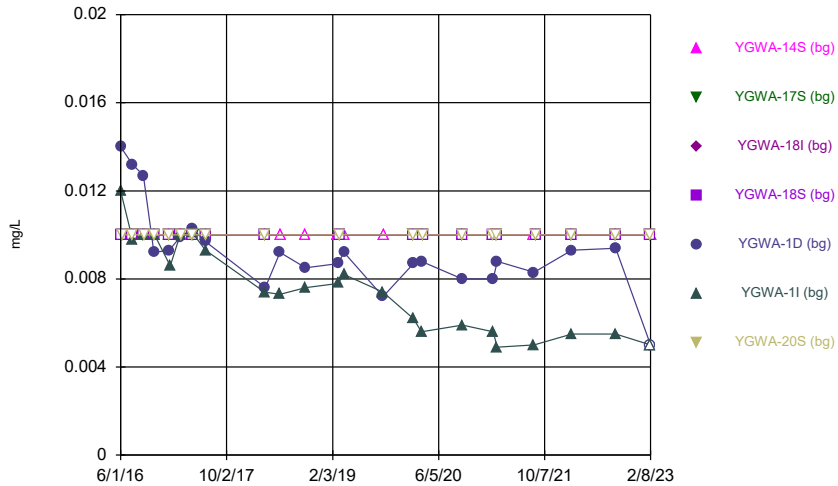
Time Series



Constituent: Molybdenum Analysis Run 5/2/2023 10:13 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

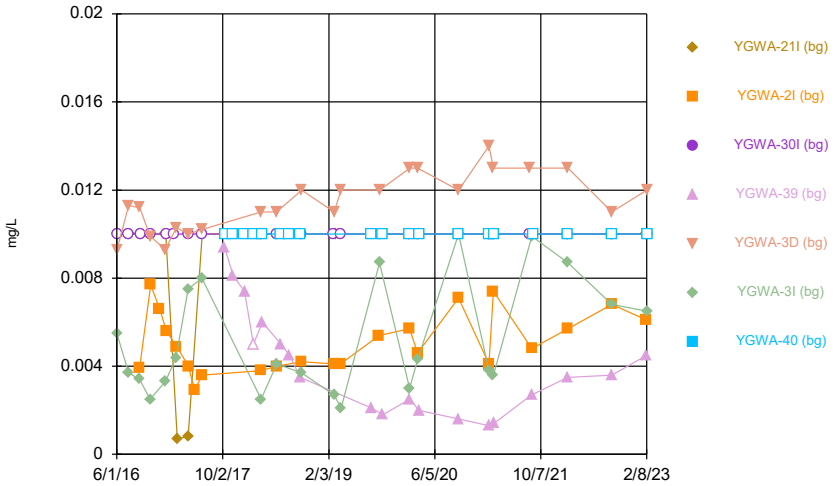
Time Series



Constituent: Molybdenum Analysis Run 5/2/2023 10:13 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

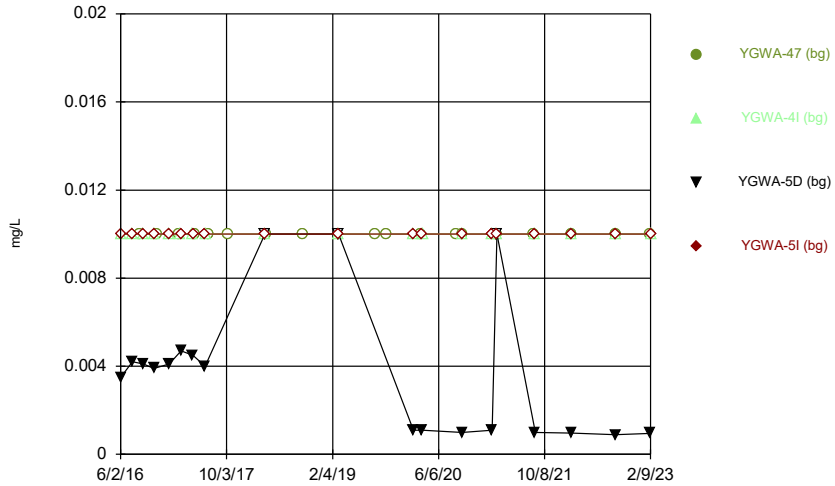
Time Series



Constituent: Molybdenum Analysis Run 5/2/2023 10:13 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

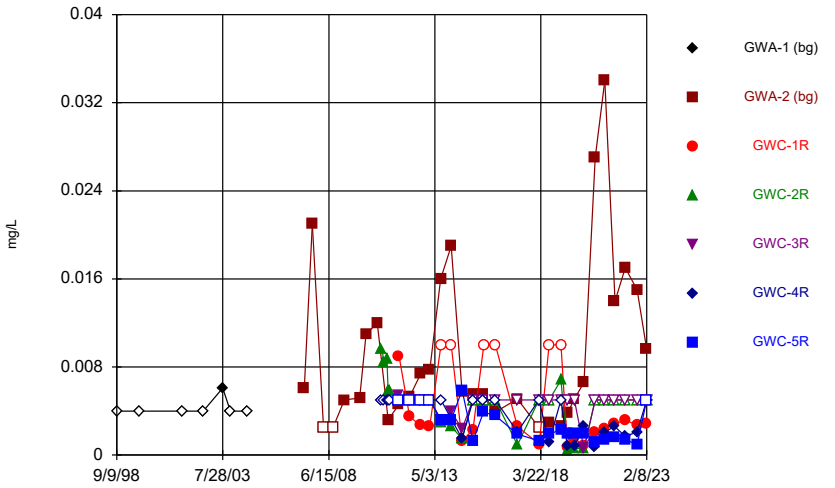
Time Series



Constituent: Molybdenum Analysis Run 5/2/2023 10:13 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

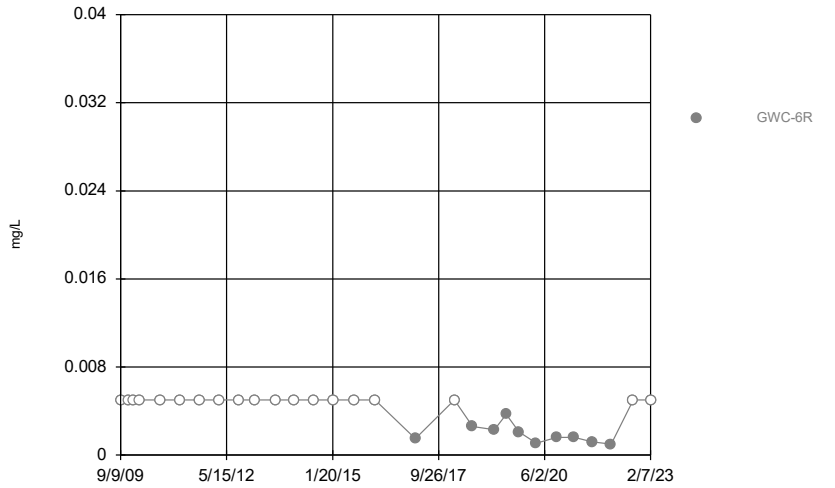
Time Series



Constituent: Nickel Analysis Run 5/2/2023 10:13 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

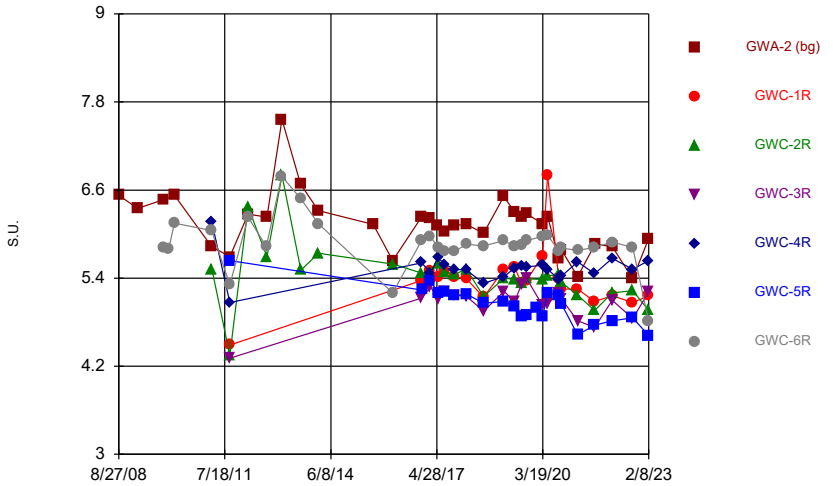
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Nickel Analysis Run 5/2/2023 10:13 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series

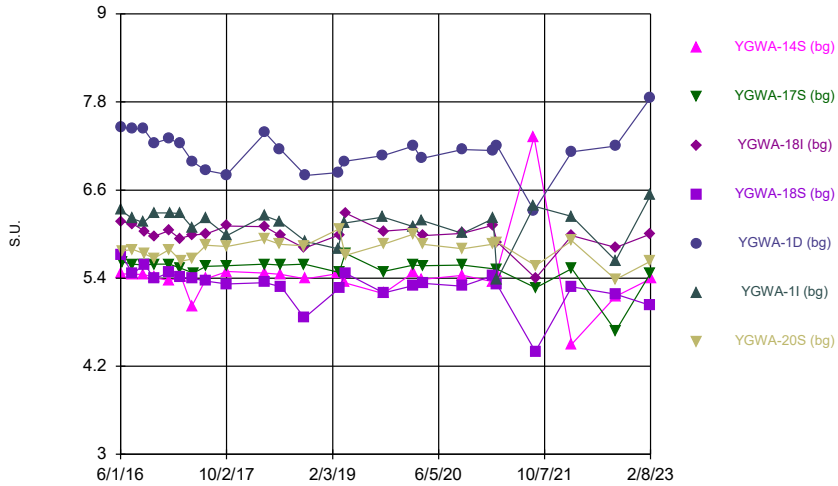


Constituent: pH Analysis Run 5/2/2023 10:13 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

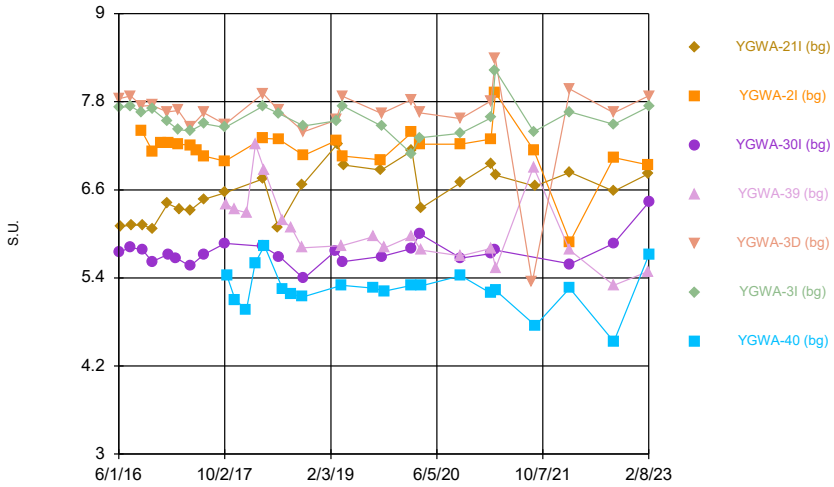


Constituent: pH Analysis Run 5/2/2023 10:13 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

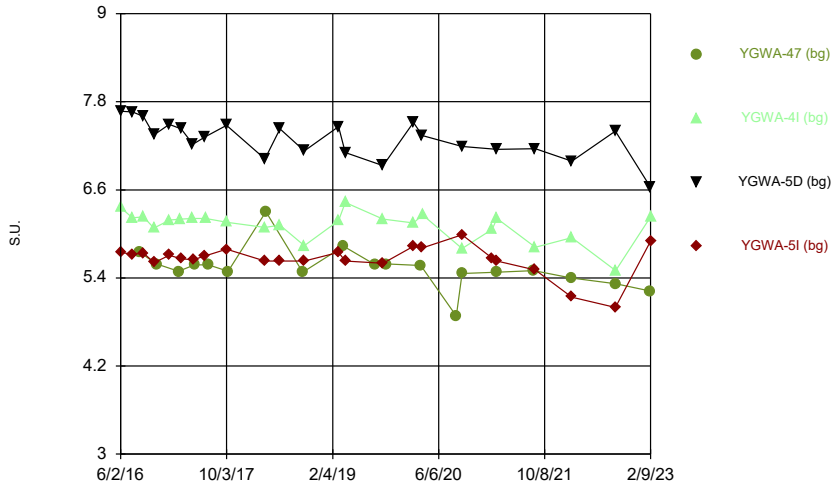


Constituent: pH Analysis Run 5/2/2023 10:13 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

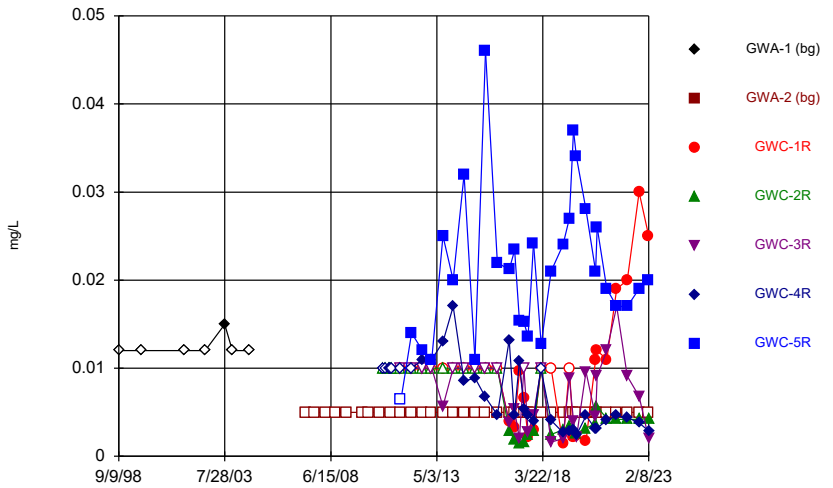


Constituent: pH Analysis Run 5/2/2023 10:13 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

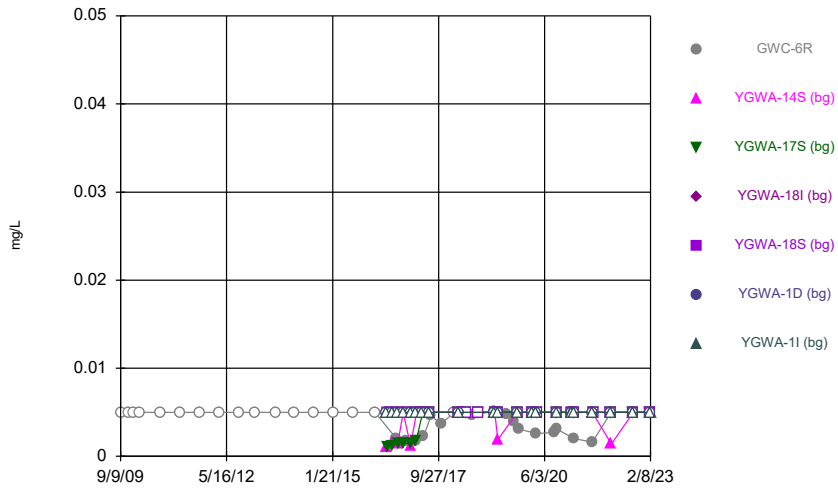
Time Series



Constituent: Selenium Analysis Run 5/2/2023 10:13 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

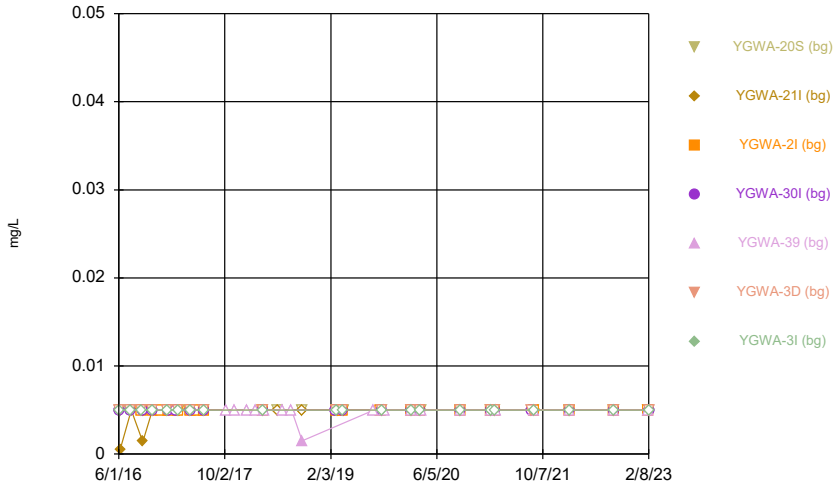
Time Series



Constituent: Selenium Analysis Run 5/2/2023 10:13 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

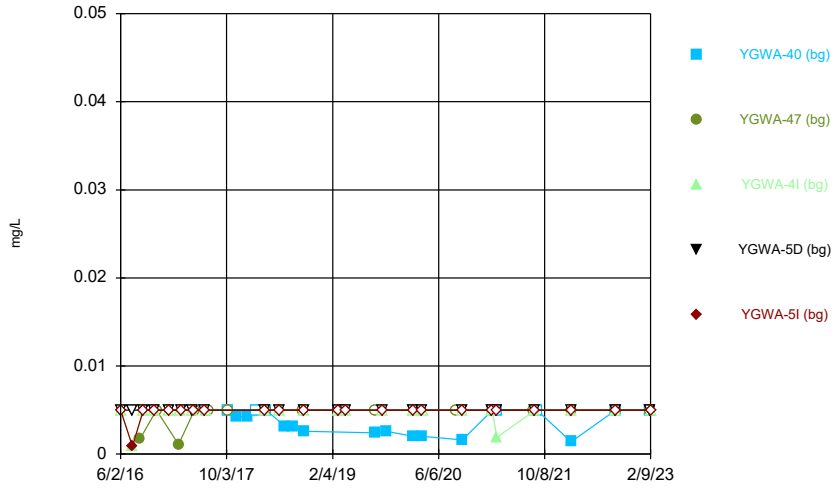
Time Series



Constituent: Selenium Analysis Run 5/2/2023 10:13 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

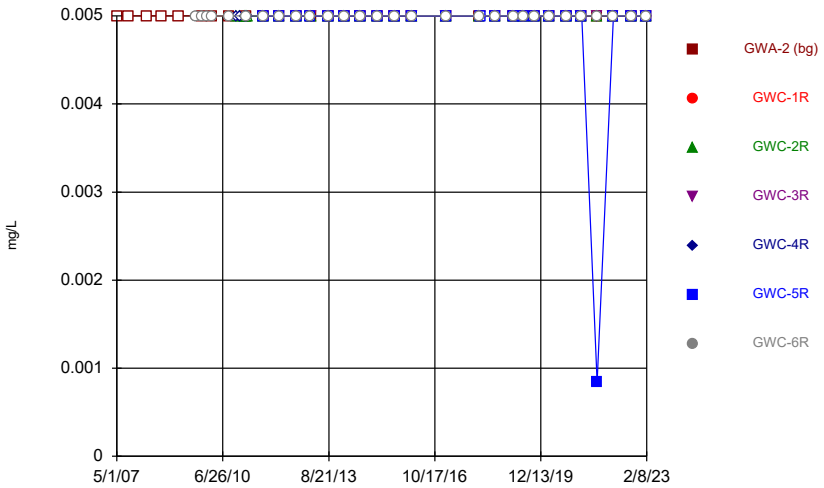
Time Series



Constituent: Selenium Analysis Run 5/2/2023 10:13 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

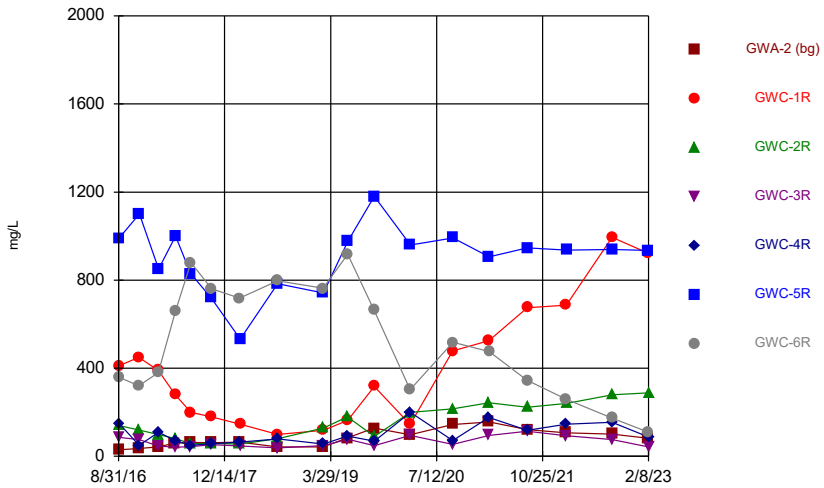
Time Series



Constituent: Silver Analysis Run 5/2/2023 10:13 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

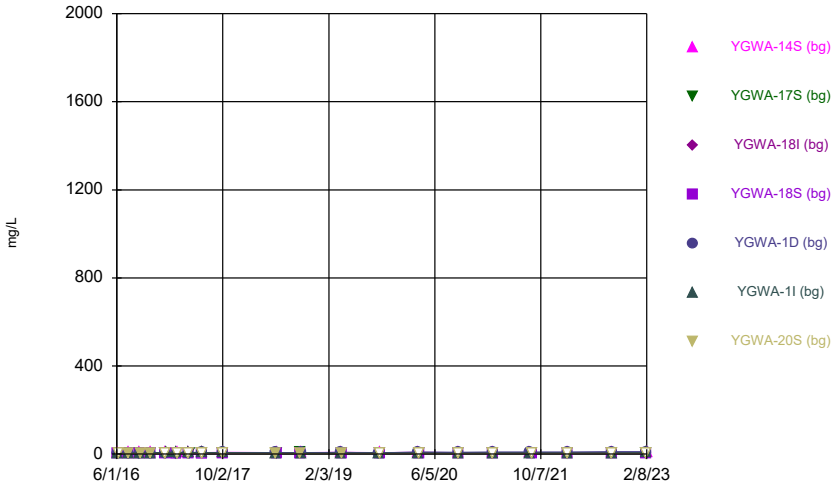
Time Series



Constituent: Sulfate Analysis Run 5/2/2023 10:13 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

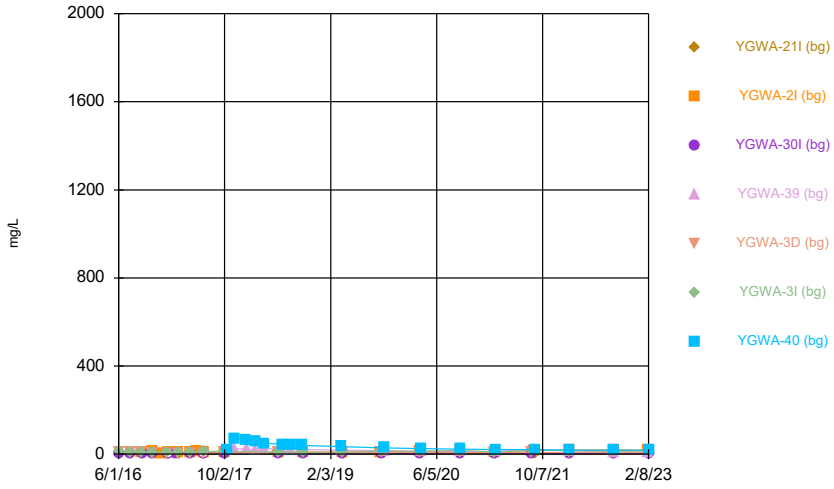
Time Series



Constituent: Sulfate Analysis Run 5/2/2023 10:13 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

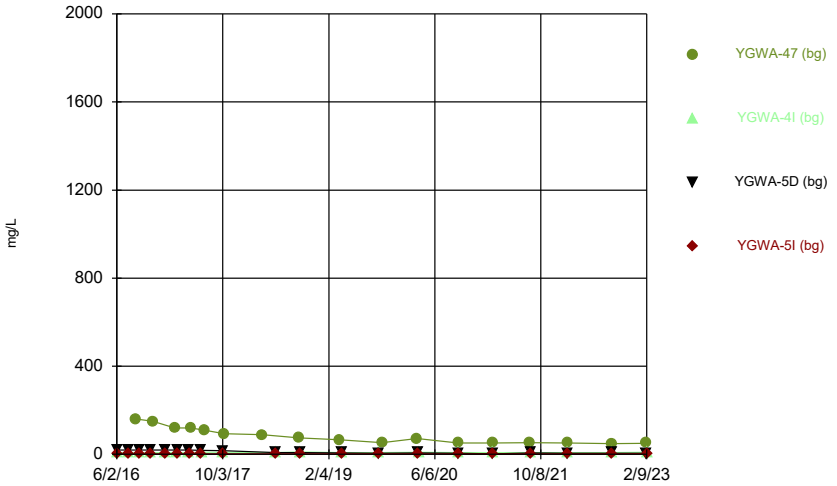
Time Series



Constituent: Sulfate Analysis Run 5/2/2023 10:13 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

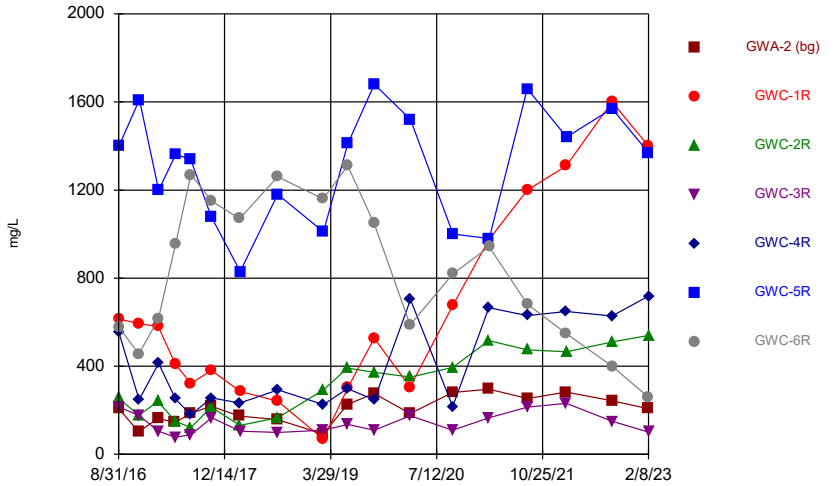


Constituent: Sulfate Analysis Run 5/2/2023 10:13 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

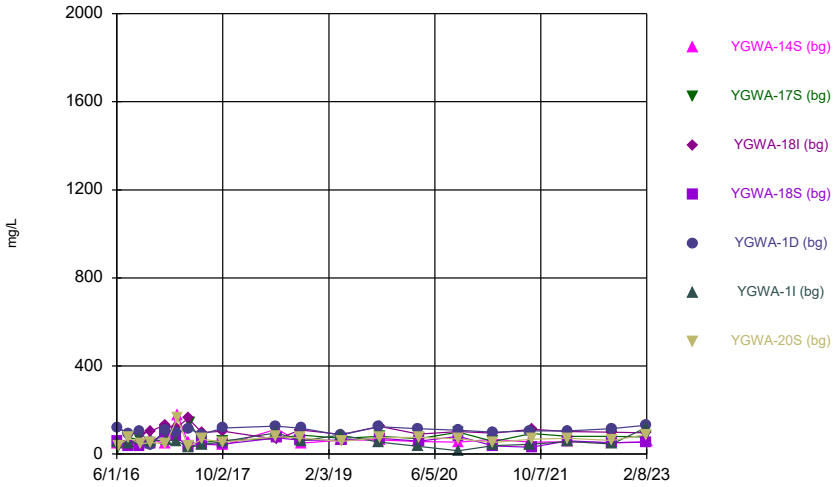


Constituent: TDS Analysis Run 5/2/2023 10:13 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series

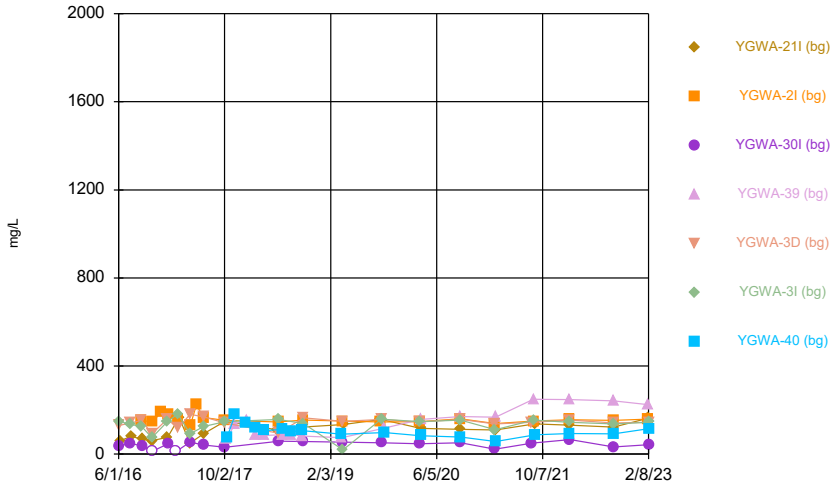


Constituent: TDS Analysis Run 5/2/2023 10:13 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series

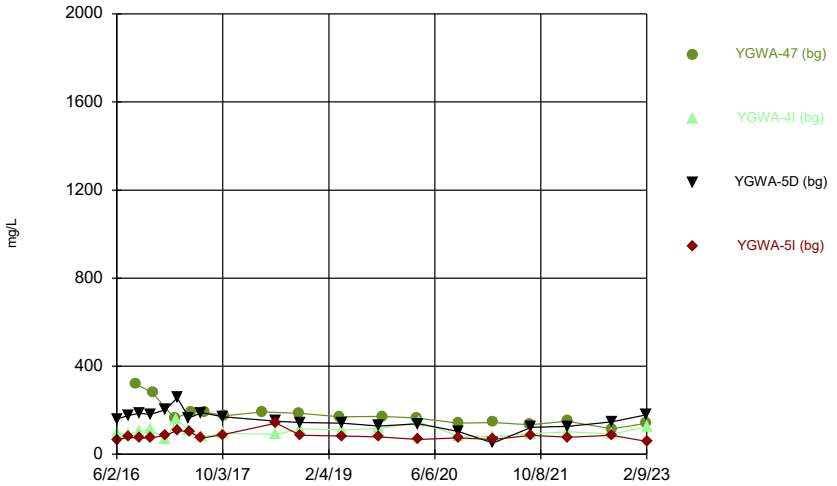


Constituent: TDS Analysis Run 5/2/2023 10:13 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Time Series



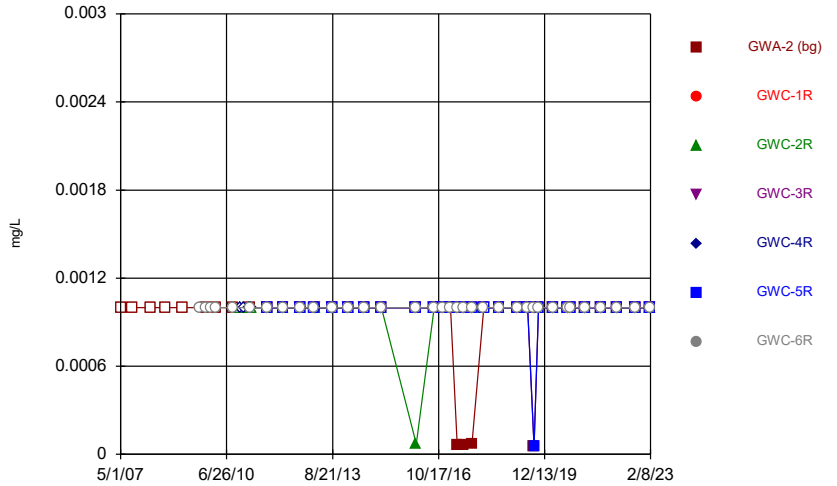
Constituent: TDS Analysis Run 5/2/2023 10:13 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



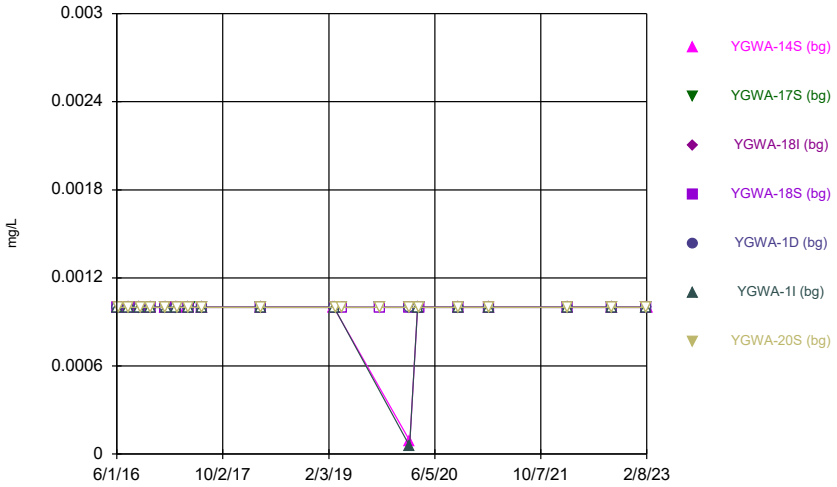
Constituent: Thallium Analysis Run 5/2/2023 10:13 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



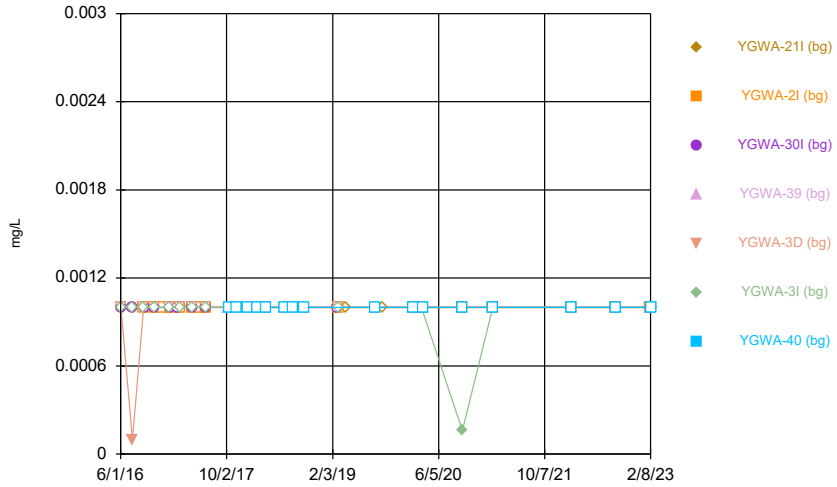
Constituent: Thallium Analysis Run 5/2/2023 10:13 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series

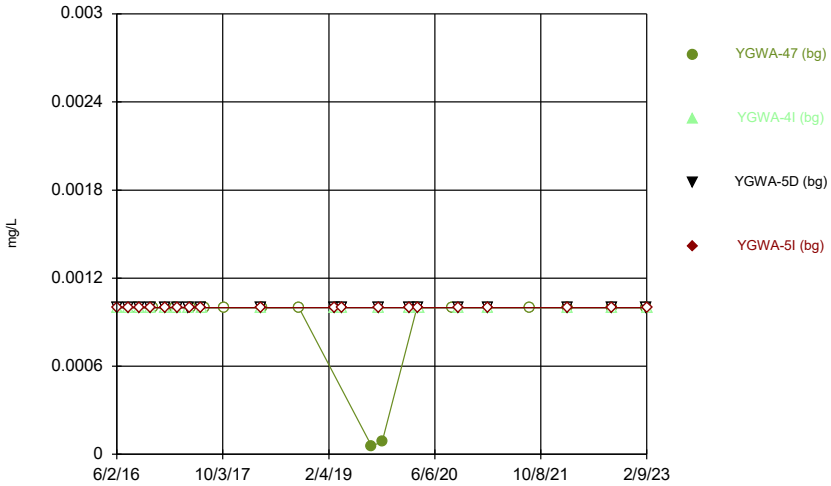


Constituent: Thallium Analysis Run 5/2/2023 10:13 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

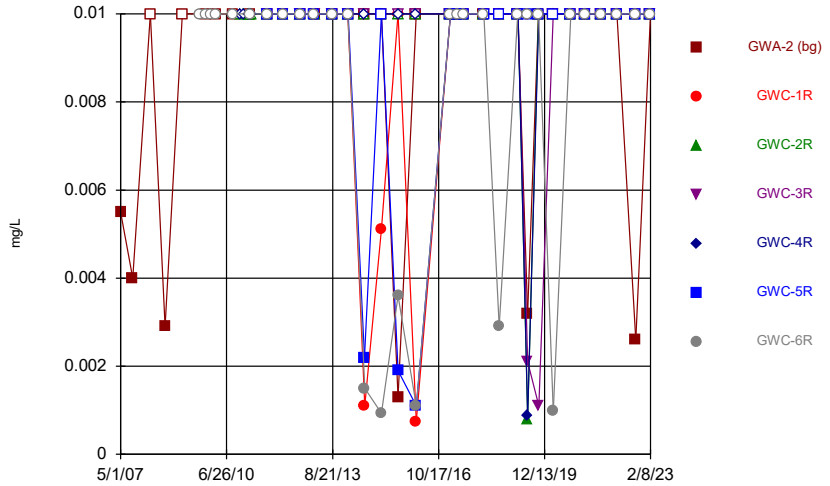
Time Series



Constituent: Thallium Analysis Run 5/2/2023 10:13 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

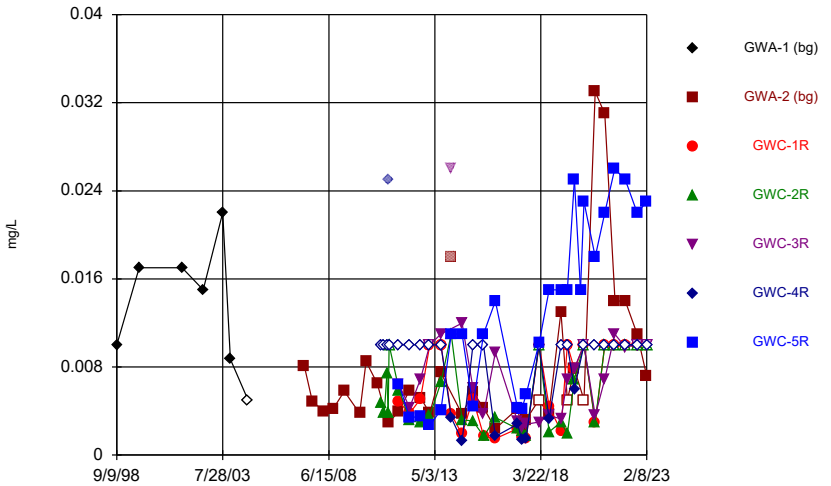
Time Series



Constituent: Vanadium Analysis Run 5/2/2023 10:13 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

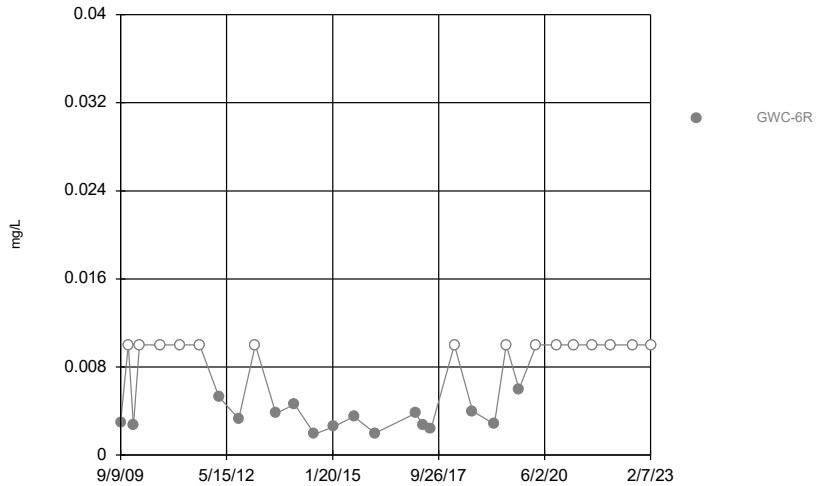
Time Series



Constituent: Zinc Analysis Run 5/2/2023 10:13 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Zinc Analysis Run 5/2/2023 10:13 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/2/2023 10:14 AM

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	<0.003						
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				
8/31/2016	<0.003	<0.003	<0.003	<0.003			
9/1/2016					0.0014 (J)	<0.003	<0.003
11/28/2016	0.0014 (J)		<0.003				
11/29/2016		<0.003					<0.003
11/30/2016				<0.003	<0.003		
12/1/2016						<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	
5/8/2017	<0.003						
5/9/2017		<0.003		<0.003			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
5/10/2017			<0.003		<0.003	<0.003	<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	
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	
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)	
10/8/2019	<0.003						<0.003
10/9/2019		<0.003	<0.003			<0.003	
10/10/2019				<0.003	<0.003		
3/17/2020	<0.003	<0.003		<0.003			<0.003
3/18/2020			<0.003		<0.003	<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)		
9/23/2020						0.00031 (J)	<0.003
3/1/2021		<0.003	<0.003		<0.003		
3/2/2021	<0.003			<0.003		<0.003	
3/3/2021							<0.003
8/18/2021		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
8/20/2021	<0.003						
2/8/2022	<0.003	<0.003		<0.003	0.0017 (J)		<0.003
2/9/2022			<0.003			<0.003	
8/30/2022	<0.003	<0.003		<0.003	0.00094 (J)	<0.003	<0.003
8/31/2022			<0.003				
2/7/2023	<0.003	<0.003				<0.003	<0.003
2/8/2023			<0.003	<0.003	<0.003		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (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	
7/26/2016	0.0005 (J)				0.001 (J)		
7/27/2016		<0.003	0.0005 (J)	<0.003			<0.003
9/13/2016					0.001 (J)	<0.003	
9/15/2016	<0.003						
9/16/2016		<0.003		<0.003			
9/19/2016			<0.003				<0.003
11/1/2016					0.0015 (J)		
11/2/2016	<0.003						<0.003
11/3/2016		<0.003	<0.003	<0.003			
11/4/2016						<0.003	
1/10/2017	<0.003						
1/11/2017		<0.003	<0.003	<0.003	<0.003		
1/13/2017							<0.003
1/16/2017						<0.003	
3/1/2017			<0.003	<0.003			
3/2/2017		<0.003			0.0004 (J)	<0.003	
3/6/2017							<0.003
3/8/2017	<0.003						
4/26/2017	<0.003		<0.003	<0.003			<0.003
4/27/2017					0.0004 (J)	0.0017 (J)	
5/2/2017		<0.003					
6/27/2017					<0.003	<0.003	
6/28/2017			<0.003	<0.003			
6/29/2017		<0.003					<0.003
6/30/2017	<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
2/26/2019	<0.003						
2/27/2019					<0.003	<0.003	
3/5/2019		<0.003		<0.003			<0.003
3/6/2019			<0.003				
4/2/2019		<0.003					
4/3/2019			<0.003	<0.003			<0.003
9/25/2019		<0.003					<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	<0.003			
2/12/2020	<0.003						<0.003
3/18/2020	<0.003					0.0004 (J)	
3/19/2020					<0.003		
3/24/2020		<0.003	<0.003	<0.003			<0.003
9/23/2020		<0.003	<0.003	<0.003	<0.003	<0.003	
9/24/2020							<0.003
9/25/2020	<0.003						
2/9/2021			<0.003	<0.003			0.00032 (J)
2/10/2021	<0.003						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
2/12/2021					<0.003	<0.003	
3/2/2021	<0.003						
3/3/2021		<0.003	<0.003	0.00067 (J)	<0.003	<0.003	<0.003
8/19/2021	<0.003				<0.003	<0.003	
8/26/2021				<0.003			
8/27/2021		<0.003	<0.003				<0.003
2/9/2022		<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/10/2022	<0.003						
8/30/2022		<0.003	<0.003	<0.003	<0.003		
8/31/2022	<0.003					<0.003	<0.003
2/7/2023		0.0013 (J)	<0.003	<0.003	<0.003	<0.003	<0.003
2/8/2023	<0.003						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						<0.003	
6/2/2016			<0.003		<0.003		
6/7/2016	<0.003						
7/25/2016			<0.003			<0.003	
7/26/2016					0.002 (J)		
7/28/2016	<0.003						
9/14/2016		<0.003				<0.003	
9/15/2016					0.0027 (J)		
9/19/2016	0.001 (J)		<0.003				
11/1/2016			<0.003		<0.003	<0.003	
11/3/2016	<0.003						
11/4/2016		<0.003					
12/15/2016		0.0012 (J)					
1/11/2017					<0.003	<0.003	
1/13/2017	<0.003						
1/16/2017		<0.003	<0.003				
2/21/2017			<0.003				
3/1/2017						<0.003	
3/2/2017					0.0008 (J)		
3/3/2017		<0.003					
3/6/2017	0.0005 (J)						
4/26/2017	<0.003		<0.003		<0.003	<0.003	
4/28/2017		0.0015 (J)					
5/26/2017		0.0005 (J)					
6/28/2017		<0.003			<0.003	<0.003	
6/29/2017	<0.003						
6/30/2017			<0.003				
10/11/2017				0.0006 (J)			
10/12/2017							<0.003
11/20/2017				<0.003			<0.003
1/10/2018							<0.003
1/11/2018				<0.003			
2/19/2018							<0.003
2/20/2018				<0.003			
3/27/2018			<0.003				
3/28/2018		<0.003			<0.003	<0.003	
3/29/2018	<0.003						
4/3/2018				<0.003			<0.003
6/28/2018				<0.003			<0.003
8/7/2018				<0.003			<0.003
9/24/2018				<0.003			<0.003
2/26/2019			<0.003				
2/27/2019		<0.003			<0.003	<0.003	
3/5/2019	0.0011 (J)						
4/2/2019	0.0011 (J)						
8/21/2019				<0.003			<0.003
9/24/2019	0.0035						
2/11/2020		0.00036 (J)				<0.003	
2/12/2020	0.0015 (J)		<0.003	<0.003	<0.003		<0.003
3/19/2020		0.0003 (J)	<0.003		0.00064 (J)	<0.003	
3/24/2020	0.0017 (J)						<0.003
3/25/2020				0.0014 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
9/23/2020		<0.003			<0.003	<0.003	
9/24/2020	0.0047		<0.003	<0.003			<0.003
2/9/2021	0.0013 (J)						
2/10/2021		0.0013 (J)		<0.003	<0.003	<0.003	<0.003
2/11/2021			<0.003				
3/1/2021			<0.003				
3/3/2021		<0.003			<0.003	<0.003	
3/4/2021	0.0014 (J)			<0.003			<0.003
8/19/2021			<0.003		<0.003		
8/26/2021				<0.003			
8/27/2021		<0.003				<0.003	
9/1/2021	<0.003						
9/3/2021							<0.003
2/8/2022				<0.003			<0.003
2/9/2022	<0.003	<0.003			0.0018 (J)	<0.003	
2/11/2022			<0.003				
8/30/2022	0.0046	<0.003					
8/31/2022			<0.003	<0.003	<0.003	<0.003	<0.003
2/7/2023	<0.003	<0.003		<0.003			
2/8/2023			<0.003		<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		<0.003	<0.003	<0.003
7/26/2016		0.0003 (J)	<0.003	<0.003
8/30/2016	0.0028 (J)			
9/14/2016		<0.003	<0.003	<0.003
11/2/2016		<0.003	<0.003	
11/4/2016				<0.003
11/14/2016	<0.003			
1/12/2017			<0.003	<0.003
1/13/2017		<0.003		
2/24/2017	<0.003			
3/6/2017		<0.003		
3/7/2017			<0.003	<0.003
5/1/2017		<0.003	<0.003	
5/2/2017				<0.003
5/8/2017	0.0004 (J)			
6/27/2017			<0.003	<0.003
6/29/2017		<0.003		
7/11/2017	0.0006 (J)			
10/10/2017	<0.003			
3/29/2018		<0.003	<0.003	<0.003
4/2/2018	<0.003			
9/19/2018	<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			
9/24/2019			<0.003	<0.003
9/25/2019		<0.003		
2/12/2020		<0.003	<0.003	<0.003
3/24/2020			<0.003	<0.003
3/25/2020		<0.003		
8/27/2020	0.00048 (J)			
9/22/2020	<0.003	<0.003	<0.003	<0.003
2/8/2021			<0.003	<0.003
2/9/2021		<0.003		
3/1/2021	0.00048 (J)			
3/2/2021			<0.003	<0.003
3/3/2021		<0.003		
8/19/2021	<0.003			
8/26/2021		<0.003	<0.003	<0.003
2/8/2022	<0.003			
2/10/2022			<0.003	<0.003
2/11/2022		<0.003		
8/30/2022			<0.003	<0.003
8/31/2022	<0.003	<0.003		
2/7/2023			<0.003	
2/8/2023	<0.003			
2/9/2023		<0.003		<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/2/2023 10:14 AM

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
9/9/1998	<0.009						
9/20/1999	<0.009						
9/12/2001	<0.009						
9/3/2002	<0.009						
7/29/2003	<0.009						
12/5/2003	<0.009						
9/22/2004	<0.009						
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					
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					
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				
3/4/2012						<0.005	
3/5/2012		<0.005	<0.005		<0.005		<0.005
3/6/2012				<0.005			
9/5/2012			<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
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		
8/14/2013						<0.005	<0.005
2/4/2014			<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			
2/2/2015			<0.005	<0.005		<0.005	
2/3/2015					<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			
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	<0.005		
9/1/2016						<0.005	<0.005
11/28/2016		<0.005		<0.005			
11/29/2016			<0.005				
11/30/2016					<0.005	<0.005	
12/1/2016							<0.005
2/22/2017		<0.005		<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/2/2023 10:14 AM

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
2/23/2017			<0.005		<0.005		
2/24/2017						<0.005	<0.005
5/8/2017		<0.005					
5/9/2017			0.0005 (J)		<0.005		
5/10/2017				<0.005		<0.005	0.0011 (J)
7/17/2017		<0.005					0.0013 (J)
7/18/2017			<0.005	<0.005	<0.005	<0.005	
10/16/2017		<0.005					0.0011 (J)
10/17/2017			0.0009 (J)	<0.005		<0.005	
10/18/2017					<0.005		
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		<0.005					
8/7/2018			<0.005		<0.005		0.0021 (J)
8/8/2018				<0.005		<0.005	
2/25/2019		<0.005					
2/26/2019			<0.005	<0.005	<0.005	<0.005	0.00069 (J)
6/12/2019		0.00038 (J)		<0.005		0.00037 (J)	
6/13/2019			<0.005		0.0016 (J)		0.0012 (J)
8/19/2019		0.00095 (J)				0.00059 (J)	
8/20/2019			0.00044 (J)	0.00075 (J)			
8/21/2019					0.00061 (J)		0.00094 (J)
10/8/2019		<0.005					
10/9/2019			<0.005	<0.005			0.0012 (J)
10/10/2019					<0.005	<0.005	
3/17/2020		<0.005	<0.005		0.0016 (J)		
3/18/2020				<0.005		<0.005	0.0008 (J)
8/26/2020		<0.005					
8/27/2020			0.0011 (J)				0.0016 (J)
8/28/2020				<0.005	<0.005	<0.005	
9/22/2020		<0.005	<0.005	<0.005	<0.005	<0.005	
9/23/2020							0.00092 (J)
3/1/2021			0.0022 (J)	0.0011 (J)		<0.005	
3/2/2021		<0.005			0.0017 (J)		0.0024 (J)
8/18/2021			0.0016 (J)	<0.005	0.0028 (J)	<0.005	0.0021 (J)
8/20/2021		<0.005					
2/8/2022		0.0033 (J)	0.0026 (J)		0.0015 (J)	0.0013 (J)	
2/9/2022				<0.005			0.0034 (J)
8/30/2022		0.0024 (J)	0.0035 (J)		<0.005	<0.005	0.0035 (J)
8/31/2022				<0.005			
2/7/2023		<0.005	0.0047 (J)				0.0054
2/8/2023				<0.005	<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
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						
6/1/2016						0.0021	<0.005
6/2/2016		<0.005					
6/6/2016				<0.005	<0.005		
6/7/2016			<0.005				
7/25/2016							<0.005
7/26/2016		<0.005				0.0016 (J)	
7/27/2016			<0.005	<0.005	<0.005		
9/1/2016	<0.005						
9/13/2016						<0.005	<0.005
9/15/2016		<0.005					
9/16/2016			<0.005		<0.005		
9/19/2016				<0.005			
11/1/2016						<0.005	
11/2/2016		<0.005					
11/3/2016			<0.005	<0.005	<0.005		
11/4/2016							<0.005
11/29/2016	<0.005						
1/10/2017		<0.005					
1/11/2017			<0.005	<0.005	<0.005	0.0017 (J)	
1/16/2017							<0.005
2/23/2017	<0.005						
3/1/2017				<0.005	<0.005		
3/2/2017			<0.005			0.0014 (J)	<0.005
3/8/2017		<0.005					
4/26/2017		<0.005		<0.005	<0.005		
4/27/2017						0.0018 (J)	<0.005
5/2/2017			<0.005				
5/10/2017	0.0007 (J)						
6/27/2017						0.0018 (J)	<0.005
6/28/2017				<0.005	<0.005		
6/29/2017			<0.005				
6/30/2017		<0.005					
7/18/2017	0.001 (J)						
10/18/2017	0.0011 (J)						
2/19/2018	<0.005						
3/27/2018		<0.005					<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
3/28/2018			<0.005	<0.005	0.00061 (J)		
3/29/2018						0.0017 (J)	
6/5/2018						0.0013 (J)	
6/6/2018							<0.005
6/7/2018				0.00066 (J)			
6/8/2018		<0.005					
6/11/2018			<0.005		<0.005		
8/6/2018	0.0023 (J)						
9/25/2018			<0.005	<0.005	<0.005		
10/1/2018		<0.005				0.0016 (J)	<0.005
2/25/2019	0.00073 (J)						
2/26/2019		<0.005					
2/27/2019						0.0015 (J)	<0.005
3/5/2019			<0.005		<0.005		
3/6/2019				<0.005			
3/28/2019						0.00072 (J)	<0.005
3/29/2019		<0.005					
4/2/2019			<0.005				
4/3/2019				<0.005	<0.005		
6/13/2019	0.00068 (J)						
8/20/2019	0.00072 (J)						
9/24/2019						0.0014 (J)	<0.005
9/25/2019		<0.005	<0.005				
9/26/2019				<0.005	<0.005		
10/8/2019	0.00056 (J)						
2/10/2020						0.0026 (J)	0.0005 (J)
2/11/2020			0.0022 (J)	0.0014 (J)	0.0026 (J)		
2/12/2020		<0.005					
3/17/2020	<0.005						
3/18/2020		<0.005					<0.005
3/19/2020						0.00095 (J)	
3/24/2020			<0.005	<0.005	<0.005		
8/27/2020	0.0011 (J)						
9/23/2020	<0.005		<0.005	<0.005	<0.005	0.0011 (J)	<0.005
9/25/2020		<0.005					
2/9/2021				<0.005	<0.005		
2/10/2021		<0.005					
2/12/2021						<0.005	<0.005
3/2/2021		<0.005					
3/3/2021	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
8/18/2021	<0.005						
8/19/2021		<0.005				<0.005	<0.005
8/26/2021					<0.005		
8/27/2021			<0.005	<0.005			
2/8/2022	<0.005						
2/9/2022			0.0024 (J)	0.0022 (J)	0.0024 (J)	0.0031 (J)	0.0033 (J)
2/10/2022		0.0016 (J)					
8/30/2022	<0.005		<0.005	<0.005	<0.005	<0.005	
8/31/2022		<0.005					<0.005
2/7/2023	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2023		<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016							<0.005
6/2/2016				<0.005		<0.005	
6/7/2016	<0.005	<0.005					
7/25/2016				<0.005			<0.005
7/26/2016						<0.005	
7/27/2016	<0.005						
7/28/2016		<0.005					
9/14/2016			<0.005				<0.005
9/15/2016						<0.005	
9/19/2016	<0.005	<0.005		<0.005			
11/1/2016				<0.005		<0.005	<0.005
11/2/2016	<0.005						
11/3/2016		<0.005					
11/4/2016			0.0017 (J)				
12/15/2016			0.0023 (J)				
1/11/2017						<0.005	<0.005
1/13/2017	<0.005	<0.005					
1/16/2017			0.0018 (J)	<0.005			
2/21/2017				<0.005			
3/1/2017							0.0004 (J)
3/2/2017						<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
4/28/2017			0.002 (J)				
5/26/2017			0.0005 (J)				
6/28/2017			0.0016 (J)			0.0007 (J)	0.0011 (J)
6/29/2017	<0.005	<0.005					
6/30/2017				<0.005			
10/11/2017					0.0009 (J)		
11/20/2017					<0.005		
1/11/2018					<0.005		
2/20/2018					<0.005		
3/27/2018				<0.005			
3/28/2018			0.0013 (J)			<0.005	<0.005
3/29/2018	<0.005	0.0015 (J)					
4/3/2018					<0.005		
6/5/2018		0.0013 (J)					
6/6/2018	<0.005						
6/7/2018			0.00082 (J)			<0.005	
6/8/2018							<0.005
6/11/2018				<0.005			
6/28/2018					<0.005		
8/7/2018					<0.005		
9/24/2018					<0.005		
9/25/2018	<0.005	0.0022 (J)					
10/1/2018			0.0011 (J)			<0.005	<0.005
10/2/2018				<0.005			
2/26/2019				<0.005			
2/27/2019			0.001 (J)			<0.005	<0.005
3/5/2019	<0.005	0.0013 (J)					
3/29/2019			0.00063 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
4/1/2019				<0.005		<0.005	<0.005
4/2/2019		0.00096 (J)					
4/3/2019	<0.005						
8/21/2019					0.00058 (J)		
9/24/2019		0.0026 (J)	<0.005				
9/25/2019	<0.005			<0.005		<0.005	<0.005
10/9/2019					0.00063 (J)		
2/11/2020			0.0044 (J)				0.0041 (J)
2/12/2020	<0.005	0.0025 (J)		0.0032 (J)	0.00058 (J)	0.0038 (J)	
3/19/2020			0.00066 (J)	<0.005		<0.005	<0.005
3/24/2020	<0.005	0.0013 (J)					
3/25/2020					0.0012 (J)		
9/23/2020			0.001 (J)			<0.005	<0.005
9/24/2020	<0.005	0.0014 (J)		<0.005	<0.005		
2/9/2021	<0.005	0.001 (J)					
2/10/2021			<0.005		<0.005	0.00094 (J)	0.00078 (J)
2/11/2021				<0.005			
3/1/2021				<0.005			
3/3/2021	<0.005		0.00098 (J)			<0.005	<0.005
3/4/2021		0.00078 (J)			<0.005		
8/19/2021				<0.005		<0.005	
8/26/2021					<0.005		
8/27/2021	<0.005		<0.005				<0.005
9/1/2021		<0.005					
2/8/2022					0.0034 (J)		
2/9/2022	0.0021 (J)	0.0036 (J)	0.0037 (J)			0.002 (J)	0.0018 (J)
2/11/2022				0.0014 (J)			
8/30/2022		0.0022 (J)	0.0027 (J)				
8/31/2022	<0.005			<0.005	0.0029 (J)	0.0028 (J)	<0.005
2/7/2023	<0.005	0.0028 (J)	<0.005		0.0029 (J)		
2/8/2023				<0.005		0.003 (J)	0.0024 (J)

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016			<0.005	0.00071 (J)	<0.005
7/26/2016			<0.005	0.001 (J)	<0.005
8/30/2016		<0.005			
9/14/2016			<0.005	<0.005	<0.005
11/2/2016			<0.005	<0.005	
11/4/2016					<0.005
11/14/2016		<0.005			
1/12/2017				<0.005	<0.005
1/13/2017			<0.005		
2/24/2017		<0.005			
3/6/2017			<0.005		
3/7/2017				0.0012 (J)	<0.005
5/1/2017			<0.005	<0.005	
5/2/2017					<0.005
5/8/2017		<0.005			
6/27/2017				0.0019 (J)	<0.005
6/29/2017			<0.005		
7/11/2017		<0.005			
10/10/2017		0.0007 (J)			
10/12/2017	<0.005				
11/20/2017	<0.005				
1/10/2018	<0.005				
2/19/2018	<0.005				
3/29/2018			<0.005	0.0006 (J)	<0.005
4/2/2018		<0.005			
4/3/2018	<0.005				
6/6/2018				0.0013 (J)	
6/7/2018			0.00059 (J)		<0.005
6/28/2018	<0.005				
8/7/2018	<0.005				
9/19/2018		0.00072 (J)			
9/24/2018	<0.005				
9/26/2018			<0.005	0.0014 (J)	<0.005
3/4/2019			<0.005	<0.005	<0.005
4/3/2019			<0.005	<0.005	<0.005
8/20/2019		<0.005			
8/21/2019	<0.005				
9/24/2019				0.00043 (J)	<0.005
9/25/2019			<0.005		
10/8/2019		<0.005			
10/9/2019	<0.005				
2/12/2020	0.0034 (J)		<0.005	0.0046 (J)	0.002 (J)
3/17/2020		<0.005			
3/24/2020	<0.005			0.00065 (J)	<0.005
3/25/2020			<0.005		
8/27/2020		<0.005			
9/22/2020		<0.005	<0.005	0.001 (J)	<0.005
9/24/2020	<0.005				
2/8/2021				<0.005	<0.005
2/9/2021			<0.005		
2/10/2021	<0.005				
3/1/2021		<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
3/2/2021				<0.005	<0.005
3/3/2021			<0.005		
3/4/2021	<0.005				
8/19/2021		<0.005			
8/26/2021			<0.005	0.0016 (J)	<0.005
9/3/2021	<0.005				
2/8/2022	0.003 (J)	0.0027 (J)			
2/10/2022				0.004 (J)	0.0016 (J)
2/11/2022			0.0014 (J)		
8/30/2022				0.0031 (J)	<0.005
8/31/2022	<0.005	<0.005	<0.005		
2/7/2023				0.003 (J)	
2/8/2023	<0.005	<0.005			
2/9/2023			<0.005		<0.005

Time Series

Constituent: Barium (mg/L) Analysis Run 5/2/2023 10:14 AM

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
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					
11/18/2009		0.05					
3/3/2010		0.061					
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					
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				
3/4/2012						0.046	
3/5/2012		0.061	0.044		0.014		0.048
3/6/2012				0.049			
9/5/2012			0.034		0.0095		0.07
9/10/2012		0.055				0.084	
9/11/2012				0.045			
2/5/2013			0.03				0.068
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		
8/14/2013						0.042	0.036
2/4/2014			0.037	0.08		0.046	
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			
2/2/2015			0.069	0.066		0.02	
2/3/2015					0.031		0.033
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			
2/16/2016		0.045	0.044		0.038	0.032	0.04
2/17/2016				0.059			
8/31/2016		0.0542	0.0711	0.0601	0.0286		
9/1/2016						0.0377	0.0345
11/28/2016		0.0529		0.0562			
11/29/2016			0.0754				
11/30/2016					0.0258	0.0148	
12/1/2016							0.0342
2/22/2017		0.0607		0.0481			

Time Series

Constituent: Barium (mg/L) Analysis Run 5/2/2023 10:14 AM

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
2/23/2017			0.0646		0.0278		
2/24/2017						0.029	0.0347
5/8/2017		0.065					
5/9/2017			0.0463		0.0308		
5/10/2017				0.0563		0.0182	0.0363
7/17/2017		0.06					0.0274
7/18/2017			0.039	0.049	0.0407	0.0187	
10/16/2017		0.0542					0.0151
10/17/2017			0.0349	0.047		0.0157	
10/18/2017					0.049		
2/19/2018		0.0533					
2/20/2018				0.0467		0.0151	
2/21/2018			0.0322		0.0285		0.0174
8/6/2018		0.044					
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		0.063		0.046		0.017	
6/13/2019			0.033		0.021		0.014
8/19/2019		0.065				0.02	
8/20/2019			0.07	0.05			
8/21/2019					0.02		0.014
10/8/2019		0.058					
10/9/2019			0.054	0.045			0.015
10/10/2019					0.018	0.018	
3/17/2020		0.047	0.031		0.024		
3/18/2020				0.04		0.038	0.015
8/26/2020		0.044					
8/27/2020			0.072				0.013
8/28/2020				0.044	0.014	0.026	
9/22/2020		0.045	0.068	0.04	0.014	0.026	
9/23/2020							0.012
3/1/2021			0.063	0.043		0.035	
3/2/2021		0.039			0.015		0.011
8/18/2021			0.076	0.033	0.014	0.04	0.013
8/20/2021		0.036					
2/8/2022		0.037	0.066		0.013	0.031	
2/9/2022				0.038			0.011
8/30/2022		0.031	0.058		0.01	0.022	0.01
8/31/2022				0.026			
2/7/2023		0.034	0.051				0.011
2/8/2023				0.027	0.0089	0.034	

Time Series

Constituent: Barium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
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						
6/1/2016						0.008	0.012
6/2/2016		0.0081					
6/6/2016				0.028	0.019		
6/7/2016			0.012				
7/25/2016							0.0091 (J)
7/26/2016		0.0082 (J)				0.006 (J)	
7/27/2016			0.0126	0.0294	0.0167		
9/1/2016	0.0536						
9/13/2016						0.0084 (J)	0.008 (J)
9/15/2016		0.0087 (J)					
9/16/2016			0.0127		0.0168		
9/19/2016				0.0247			
11/1/2016						0.0062 (J)	
11/2/2016		0.0082 (J)					
11/3/2016			0.0128	0.0248	0.0159		
11/4/2016							0.0067 (J)
11/29/2016	0.0459						
1/10/2017		0.0086 (J)					
1/11/2017			0.0142	0.0266	0.0162	0.0069 (J)	
1/16/2017							0.0096 (J)
2/23/2017	0.0581						
3/1/2017				0.0275	0.0195		
3/2/2017			0.0155			0.0071 (J)	0.0112
3/8/2017		0.0088 (J)					
4/26/2017		0.0085 (J)		0.024	0.0182		
4/27/2017						0.0064 (J)	0.0106
5/2/2017			0.0138				
5/10/2017	0.0873						
6/27/2017						0.0054 (J)	0.0092 (J)
6/28/2017				0.0237	0.018		
6/29/2017			0.0128				
6/30/2017		0.0081 (J)					
7/18/2017	0.0994						
10/18/2017	0.0757						
2/19/2018	0.0703						
3/27/2018		<0.01					<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
3/28/2018			0.014	0.024	0.021		
3/29/2018						<0.01	
6/5/2018						0.0069 (J)	
6/6/2018							0.0082 (J)
6/7/2018				0.023			
6/8/2018		0.007 (J)					
6/11/2018			0.013		0.019		
8/6/2018	0.076						
9/25/2018			0.014	0.023	0.019		
10/1/2018		0.007 (J)				0.0062 (J)	0.0084 (J)
2/25/2019	0.045						
2/26/2019		0.0067 (J)					
2/27/2019						0.0074 (J)	0.008 (J)
3/5/2019			0.015		0.02		
3/6/2019				0.024			
3/28/2019						0.0082 (J)	0.0082 (J)
3/29/2019		0.0066 (J)					
4/2/2019			0.016				
4/3/2019				0.025	0.017		
6/13/2019	0.062						
8/20/2019	0.06						
9/24/2019						0.0072 (J)	0.0086 (J)
9/25/2019		0.0071 (J)	0.015				
9/26/2019				0.021	0.017		
10/8/2019	0.054						
2/10/2020						0.0066 (J)	0.0091 (J)
2/11/2020			0.015	0.022	0.019		
2/12/2020		0.007 (J)					
3/17/2020	0.031						
3/18/2020		0.0076 (J)					0.0084 (J)
3/19/2020						0.0076 (J)	
3/24/2020			0.015	0.021	0.017		
8/27/2020	0.045						
9/23/2020	0.044		0.015	0.021	0.016	0.0068 (J)	0.0079 (J)
9/25/2020		0.0073 (J)					
2/9/2021				0.023	0.017		
2/10/2021		0.0078 (J)					
2/12/2021						0.0057 (J)	0.009 (J)
3/2/2021		0.0076					
3/3/2021	0.043		0.017	0.023	0.017	0.0068	0.0094
8/18/2021	0.035						
8/19/2021		0.0077				0.0065	0.0079
8/26/2021					0.015		
8/27/2021			0.016	0.02			
2/8/2022	0.03						
2/9/2022			0.017	0.021	0.014	0.0067	0.0088
2/10/2022		0.0088					
8/30/2022	0.028		0.017	0.017	0.012	0.0066	
8/31/2022		0.0075					0.0074
2/7/2023	0.032		0.017	0.019	0.012	0.14	0.21
2/8/2023		0.0089					

Time Series

Constituent: Barium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016							0.0038
6/2/2016				0.0064		0.01	
6/7/2016	0.014	0.0058					
7/25/2016				0.0071 (J)			0.0031 (J)
7/26/2016						0.0088 (J)	
7/27/2016	0.0141						
7/28/2016		0.0068 (J)					
9/14/2016			0.0037 (J)				0.0027 (J)
9/15/2016						0.009 (J)	
9/19/2016	0.0155	0.0071 (J)		0.0069 (J)			
11/1/2016				0.007 (J)		0.0079 (J)	0.0027 (J)
11/2/2016	0.0157						
11/3/2016		0.0092 (J)					
11/4/2016			0.0059 (J)				
12/15/2016			0.0056 (J)				
1/11/2017						0.0075 (J)	0.0036 (J)
1/13/2017	0.0158	0.0105					
1/16/2017			0.0049 (J)	0.0071 (J)			
2/21/2017				0.0077 (J)			
3/1/2017							0.0036 (J)
3/2/2017						0.009 (J)	
3/3/2017			0.0046 (J)				
3/6/2017	0.0163	0.0105					
4/26/2017	0.0177	0.011		0.0074 (J)		0.0078 (J)	0.0038 (J)
4/28/2017			0.0039 (J)				
5/26/2017			0.0034 (J)				
6/28/2017			0.003 (J)			0.0071 (J)	0.004 (J)
6/29/2017	0.017	0.0109					
6/30/2017				0.0076 (J)			
10/11/2017					0.0092 (J)		
11/20/2017					0.0081 (J)		
1/11/2018					0.0077 (J)		
2/20/2018					<0.01		
3/27/2018				<0.01			
3/28/2018			<0.01			<0.01	<0.01
3/29/2018	0.014	<0.01					
4/3/2018					<0.01		
6/5/2018		0.011					
6/6/2018	0.015						
6/7/2018			0.0037 (J)			0.0068 (J)	
6/8/2018							0.0034 (J)
6/11/2018				0.007 (J)			
6/28/2018					0.0078 (J)		
8/7/2018					0.0078 (J)		
9/24/2018					0.0071 (J)		
9/25/2018	0.015	0.011					
10/1/2018			0.0038 (J)			0.0065 (J)	0.0034 (J)
10/2/2018				0.0069 (J)			
2/26/2019				0.007 (J)			
2/27/2019			0.0035 (J)			0.0059 (J)	0.0034 (J)
3/5/2019	0.016	0.011					
3/29/2019			0.0039 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
4/1/2019				0.0072 (J)		0.0064 (J)	0.003 (J)
4/2/2019		0.011					
4/3/2019	0.018						
8/21/2019					0.015		
9/24/2019		0.011	0.0038 (J)				
9/25/2019	0.014			0.0066 (J)		0.0059 (J)	0.005 (J)
10/9/2019					0.013		
2/11/2020			0.0036 (J)				0.0031 (J)
2/12/2020	0.014	0.011		0.0073 (J)	0.011	0.0062 (J)	
3/19/2020			0.0036 (J)	0.0074 (J)		0.0072 (J)	0.0029 (J)
3/24/2020	0.015	0.011					
3/25/2020					0.014		
9/23/2020			0.0039 (J)			0.0051 (J)	0.0039 (J)
9/24/2020	0.015	0.01		0.0062 (J)	0.016		
2/9/2021	0.015	0.011					
2/10/2021			0.0032 (J)		0.027	0.0059 (J)	0.0029 (J)
2/11/2021				0.0077 (J)			
3/1/2021				0.007			
3/3/2021	0.015		0.0041 (J)			0.0064	0.0031 (J)
3/4/2021		0.011			0.028		
8/19/2021				0.0071		0.0052	
8/26/2021					0.038		
8/27/2021	0.013		0.003 (J)				0.0039 (J)
9/1/2021		0.0099					
2/8/2022					0.041		
2/9/2022	0.014	0.011	0.0029 (J)			0.0051	0.0031 (J)
2/11/2022				0.0077			
8/30/2022		0.0085	0.003 (J)				
8/31/2022	0.011			0.0068	0.035	0.0048 (J)	0.003 (J)
2/7/2023	0.014	0.01	0.0026 (J)		0.03		
2/8/2023				0.0066		0.0048 (J)	0.0029 (J)

Time Series

Constituent: Barium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016			0.013	0.0084	0.019
7/26/2016			0.0158	0.01	0.0179
8/30/2016		0.0413			
9/14/2016			0.0143	0.0085 (J)	0.0181
11/2/2016			0.0148	0.0091 (J)	
11/4/2016					0.0165
11/14/2016		0.0383			
1/12/2017				0.0089 (J)	0.0199
1/13/2017			0.0146		
2/24/2017		0.0351			
3/6/2017			0.0141		
3/7/2017				0.009 (J)	0.0196
5/1/2017			0.0149	0.0083 (J)	
5/2/2017					0.0202
5/8/2017		0.0251			
6/27/2017				0.0074 (J)	0.0184
6/29/2017			0.0154		
7/11/2017		0.0233			
10/10/2017		0.0207			
10/12/2017	0.0328				
11/20/2017	0.0671				
1/10/2018	0.0656				
2/19/2018	0.0598				
3/29/2018			0.014	<0.01	0.021
4/2/2018		0.022			
4/3/2018	0.045				
6/6/2018				0.008 (J)	
6/7/2018			0.014		0.019
6/28/2018	0.047				
8/7/2018	0.048				
9/19/2018		0.023			
9/24/2018	0.042				
9/26/2018			0.02	0.0075 (J)	0.019
3/4/2019			0.016	0.0077 (J)	0.019
4/3/2019			0.017	0.0087 (J)	0.023
8/20/2019		0.024			
8/21/2019	0.035				
9/24/2019				0.0075 (J)	0.019
9/25/2019			0.015		
10/8/2019		0.025			
10/9/2019	0.036				
2/12/2020	0.035		0.012	0.0079 (J)	0.021
3/17/2020		0.035			
3/24/2020	0.033			0.0076 (J)	0.021
3/25/2020			0.016		
8/27/2020		0.027			
9/22/2020		0.026	0.013	0.0076 (J)	0.019
9/24/2020	0.028				
2/8/2021				0.0079 (J)	0.02
2/9/2021			0.013		
2/10/2021	0.032				
3/1/2021		0.029			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
3/2/2021				0.014	0.019
3/3/2021			0.014		
3/4/2021	0.032				
8/19/2021		0.029			
8/26/2021			0.012	0.0092	0.019
9/3/2021	0.035				
2/8/2022	0.039	0.03			
2/10/2022				0.0084	0.02
2/11/2022			0.013		
8/30/2022				0.0079	0.017
8/31/2022	0.035	0.029	0.013		
2/7/2023				0.0075	
2/8/2023	0.037	0.031			
2/9/2023			0.014		0.019

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/2/2023 10:14 AM

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
9/9/1998	<0.001						
9/20/1999	<0.001						
9/12/2001	<0.001						
9/3/2002	<0.001						
7/29/2003	<0.001						
12/5/2003	<0.001						
9/22/2004	<0.001						
5/1/2007		<0.0005					
9/11/2007		<0.0005					
3/20/2008		<0.0005					
8/27/2008		<0.0005					
3/3/2009		<0.0005					
11/18/2009		<0.0005					
3/3/2010		<0.0005					
9/8/2010		<0.0005					
11/22/2010				<0.003		<0.003	
1/4/2011				<0.003		<0.003	
2/17/2011				<0.003		<0.003	
3/10/2011		<0.0005					
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		<0.0005	<0.003				
3/4/2012						<0.003	
3/5/2012		<0.0005	<0.003		<0.003		<0.003
3/6/2012				<0.003			
9/5/2012			<0.003		<0.003		<0.003
9/10/2012		<0.0005				<0.003	
9/11/2012				<0.003			
2/5/2013			<0.003				<0.003
2/6/2013		<0.0005		<0.003	<0.003	<0.003	
8/12/2013		<0.0005					
8/13/2013			<0.003	<0.003	<0.003		
8/14/2013						<0.003	<0.003
2/4/2014			<0.003	<0.003		<0.003	
2/5/2014		<0.0005			<0.003		<0.003
8/4/2014					0.0011 (J)	<0.003	0.00026 (J)
8/5/2014		<0.0005	7.5E-05 (J)	<0.003			
2/2/2015			0.00023 (J)	<0.003		<0.003	
2/3/2015					0.00061 (J)		0.00023 (J)
2/4/2015		<0.0005					
8/3/2015		<0.0005			0.00051 (JD)	<0.003 (D)	0.00046 (JD)
8/4/2015			<0.003 (D)	<0.003			
2/16/2016		<0.0005	<0.003		0.00084 (J)	<0.003	0.00048 (J)
2/17/2016				<0.003			
8/31/2016		<0.0005	0.0001 (J)	<0.003	0.0003 (J)		
9/1/2016						<0.003	0.0005 (J)
11/28/2016		<0.0005		<0.003			
11/29/2016			<0.003				
11/30/2016					0.0004 (J)	<0.003	
12/1/2016							0.0003 (J)
2/22/2017		<0.0005		<0.003			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/2/2023 10:14 AM

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
2/23/2017			<0.003		0.0003 (J)		
2/24/2017						<0.003	0.0002 (J)
5/8/2017		<0.0005					
5/9/2017			8E-05 (J)		0.0002 (J)		
5/10/2017				<0.003		<0.003	0.0003 (J)
7/17/2017		<0.0005					0.0004 (J)
7/18/2017			<0.003	<0.003	0.0002 (J)	<0.003	
10/16/2017		<0.0005					0.0006 (J)
10/17/2017			0.0001 (J)	<0.003		<0.003	
10/18/2017					0.0004 (J)		
2/19/2018		<0.0005					
2/20/2018				<0.003		<0.003	
2/21/2018			<0.003		<0.003		<0.003
8/6/2018		<0.0005					
8/7/2018			7.4E-05 (J)		0.00026 (J)		0.00096 (J)
8/8/2018				7E-05 (J)		<0.003	
2/25/2019		<0.0005					
2/26/2019			7.5E-05 (J)	5.3E-05 (J)	0.00038 (J)	<0.003	0.0015 (J)
6/12/2019		<0.0005		<0.003		<0.003	
6/13/2019			<0.003		0.00051 (J)		0.0015 (J)
8/19/2019		<0.0005				<0.003	
8/20/2019			0.0001 (J)	0.00017 (J)			
8/21/2019					0.00046 (J)		0.0028 (J)
10/8/2019		<0.0005					
10/9/2019			0.00013 (J)	0.00014 (J)			0.0022 (J)
10/10/2019					0.00039 (J)	<0.003	
3/17/2020		<0.0005	7.6E-05 (J)		0.00095 (J)		
3/18/2020				0.00012 (J)		<0.003	0.0028 (J)
8/26/2020		<0.0005					
8/27/2020			0.00024 (J)				0.0023 (J)
8/28/2020				0.0002 (J)	0.0005 (J)	<0.003	
9/22/2020		<0.0005	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		<0.0005			0.00081		0.0037
8/18/2021			0.0003 (J)	0.00022 (J)	0.0011	0.00011 (J)	0.0033
8/20/2021		<0.0005					
2/8/2022		<0.0005	0.00032 (J)		0.001	8.5E-05 (J)	
2/9/2022				0.00023 (J)			0.0036
8/30/2022		<0.0005	0.00037 (J)		0.00056	7.2E-05 (J)	0.0032
8/31/2022				0.00023 (J)			
2/7/2023		<0.0005	0.00037 (J)				0.0025
2/8/2023				0.00025 (J)	0.00033 (J)	0.00013 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
9/9/2009	<0.0005						
11/18/2009	<0.0005						
1/5/2010	<0.0005						
3/3/2010	<0.0005						
9/7/2010	<0.0005						
3/10/2011	<0.0005						
9/8/2011	<0.0005						
3/5/2012	<0.0005						
9/5/2012	<0.0005						
2/5/2013	<0.0005						
8/13/2013	<0.0005						
2/4/2014	<0.0005						
8/5/2014	<0.0005						
2/3/2015	<0.0005						
8/4/2015	<0.0005						
2/16/2016	<0.0005						
6/1/2016						<0.0005	<0.0025
6/2/2016		<0.003					
6/6/2016				<0.0005	<0.003		
6/7/2016			<0.003				
7/25/2016							<0.0025
7/26/2016		0.0002 (J)				<0.0005	
7/27/2016			<0.003	<0.0005	<0.003		
9/1/2016	<0.0005						
9/13/2016						<0.0005	<0.0025
9/15/2016		0.0002 (J)					
9/16/2016			<0.003		<0.003		
9/19/2016				<0.0005			
11/1/2016						<0.0005	
11/2/2016		0.0002 (J)					
11/3/2016			<0.003	<0.0005	<0.003		
11/4/2016							<0.0025
11/29/2016	<0.0005						
1/10/2017		0.0002 (J)					
1/11/2017			<0.003	<0.0005	<0.003	<0.0005	
1/16/2017							<0.0025
2/23/2017	<0.0005						
3/1/2017				<0.0005	<0.003		
3/2/2017			8E-05 (J)			<0.0005	<0.0025
3/8/2017		0.0002 (J)					
4/26/2017		0.0002 (J)		<0.0005	<0.003		
4/27/2017						<0.0005	<0.0025
5/2/2017			<0.003				
5/10/2017	<0.0005						
6/27/2017						<0.0005	<0.0025
6/28/2017				<0.0005	<0.003		
6/29/2017			<0.003				
6/30/2017		0.0002 (J)					
7/18/2017	<0.0005						
10/18/2017	<0.0005						
2/19/2018	<0.0005						
3/27/2018		<0.003					<0.0025

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
3/28/2018			<0.003	<0.0005	<0.003		
3/29/2018						<0.0005	
6/7/2018				<0.0005			
6/11/2018			9E-05 (J)		5.7E-05 (J)		
8/6/2018	<0.0005						
9/25/2018			8.9E-05 (J)	<0.0005	8.2E-05 (J)		
2/25/2019	<0.0005						
2/26/2019		0.00016 (J)					
2/27/2019						<0.0005	<0.0025
3/5/2019			9.1E-05 (J)		7.9E-05 (J)		
3/6/2019				<0.0005			
3/28/2019						<0.0005	<0.0025
3/29/2019		0.00017 (J)					
4/2/2019			9E-05 (J)				
4/3/2019				<0.0005	7.5E-05 (J)		
6/13/2019	<0.0005						
8/20/2019	<0.0005						
9/24/2019						<0.0005	<0.0025
9/25/2019		0.00018 (J)	8.1E-05 (J)				
9/26/2019				<0.0005	8.4E-05 (J)		
10/8/2019	<0.0005						
2/10/2020						<0.0005	<0.0025
2/11/2020			7.8E-05 (J)	<0.0005	7.6E-05 (J)		
2/12/2020		0.00019 (J)					
3/17/2020	<0.0005						
3/18/2020		0.00021 (J)					<0.0025
3/19/2020						<0.0005	
3/24/2020			8E-05 (J)	<0.0005	8.9E-05 (J)		
8/27/2020	<0.0005						
9/23/2020	<0.0005		8.1E-05 (J)	<0.0005	8.8E-05 (J)	<0.0005	<0.0025
9/25/2020		0.00018 (J)					
2/9/2021				<0.0005	9.8E-05 (J)		
2/10/2021		0.00019 (J)					
2/12/2021						<0.0005	<0.0025
3/2/2021		0.00018 (J)					
3/3/2021	<0.0005		9.9E-05 (J)	<0.0005	0.00011 (J)	<0.0005	<0.0025
8/18/2021	<0.0005						
8/19/2021		0.00022 (J)				<0.0005	<0.0025
8/26/2021					9.3E-05 (J)		
8/27/2021			0.0001 (J)	<0.0005			
2/8/2022	<0.0005						
2/9/2022			0.00011 (J)	<0.0005	8.9E-05 (J)	<0.0005	<0.0025
2/10/2022		0.00025 (J)					
8/30/2022	<0.0005		0.0001 (J)	<0.0005	8.2E-05 (J)	<0.0005	
8/31/2022		0.0002 (J)					<0.0025
2/7/2023	<0.0005		9.6E-05 (J)	<0.0005	7.1E-05 (J)	0.0011	0.00054
2/8/2023		0.00022 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016							<0.0005
6/2/2016				<0.0005		<0.0005	
6/7/2016	<0.0025	<0.0005					
7/25/2016				<0.0005			<0.0005
7/26/2016						<0.0005	
7/27/2016	<0.0025						
7/28/2016		<0.0005					
9/14/2016			<0.0005				<0.0005
9/15/2016						<0.0005	
9/19/2016	<0.0025	<0.0005		<0.0005			
11/1/2016				<0.0005		<0.0005	<0.0005
11/2/2016	<0.0025						
11/3/2016		<0.0005					
11/4/2016			<0.0005				
12/15/2016			<0.0005				
1/11/2017						<0.0005	<0.0005
1/13/2017	<0.0025	<0.0005					
1/16/2017			<0.0005	<0.0005			
2/21/2017				<0.0005			
3/1/2017							<0.0005
3/2/2017						<0.0005	
3/3/2017			<0.0005				
3/6/2017	<0.0025	<0.0005					
4/26/2017	<0.0025	<0.0005		<0.0005		<0.0005	<0.0005
4/28/2017			<0.0005				
5/26/2017			<0.0005				
6/28/2017			<0.0005			<0.0005	<0.0005
6/29/2017	<0.0025	<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			
3/28/2018			<0.0005			<0.0005	<0.0005
3/29/2018	<0.0025	<0.0005					
4/3/2018					<0.0005		
6/5/2018		<0.0005					
6/6/2018	8E-05 (J)						
6/28/2018					<0.0005		
8/7/2018					<0.0005		
9/24/2018					<0.0005		
9/25/2018	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	0.00011 (J)	<0.0005					
3/29/2019			<0.0005				
4/1/2019				<0.0005		<0.0005	<0.0005
4/2/2019		<0.0005					
4/3/2019	6.4E-05 (J)						
8/21/2019					<0.0005		
9/24/2019		<0.0005	<0.0005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
9/25/2019	<0.0025			<0.0005		<0.0005	<0.0005
10/9/2019					<0.0005		
2/11/2020			<0.0005				<0.0005
2/12/2020	7.8E-05 (J)	<0.0005		<0.0005	<0.0005	<0.0005	
3/19/2020			<0.0005	<0.0005		<0.0005	<0.0005
3/24/2020	7.6E-05 (J)	<0.0005					
3/25/2020					<0.0005		
9/23/2020			<0.0005			<0.0005	5.9E-05 (J)
9/24/2020	8.3E-05 (J)	<0.0005		<0.0005	<0.0005		
2/9/2021	6.8E-05 (J)	<0.0005					
2/10/2021			<0.0005		5.1E-05 (J)	<0.0005	<0.0005
2/11/2021				4.7E-05 (J)			
3/1/2021				<0.0005			
3/3/2021	6.8E-05 (J)		<0.0005			<0.0005	<0.0005
3/4/2021		<0.0005			<0.0005		
8/19/2021				<0.0005		<0.0005	
8/26/2021					<0.0005		
8/27/2021	5.9E-05 (J)		<0.0005				<0.0005
9/1/2021		<0.0005					
2/8/2022					<0.0005		
2/9/2022	7.7E-05 (J)	<0.0005	<0.0005			<0.0005	<0.0005
2/11/2022				<0.0005			
8/30/2022		<0.0005	<0.0005				
8/31/2022	<0.0025			<0.0005	<0.0005	<0.0005	<0.0005
2/7/2023	7.4E-05 (J)	<0.0005	<0.0005		<0.0005		
2/8/2023				<0.0005		<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016			<0.0005	<0.0005	<0.0005
7/26/2016			<0.0005	<0.0005	<0.0005
8/30/2016		<0.0005			
9/14/2016			<0.0005	<0.0005	<0.0005
11/2/2016			<0.0005	<0.0005	
11/4/2016					<0.0005
11/14/2016		<0.0005			
1/12/2017				<0.0005	<0.0005
1/13/2017			<0.0005		
2/24/2017		<0.0005			
3/6/2017			<0.0005		
3/7/2017				<0.0005	<0.0005
5/1/2017			<0.0005	<0.0005	
5/2/2017					<0.0005
5/8/2017		7E-05 (J)			
6/27/2017				<0.0005	<0.0005
6/29/2017			<0.0005		
7/11/2017		<0.0005			
10/10/2017		<0.0005			
10/12/2017	0.0002 (J)				
11/20/2017	0.0003 (J)				
1/10/2018	0.0003 (J)				
2/19/2018	<0.003				
3/29/2018			<0.0005	<0.0005	<0.0005
4/2/2018		<0.0005			
4/3/2018	<0.003				
6/6/2018				<0.0005	
6/7/2018			<0.0005		<0.0005
6/28/2018	0.00029 (J)				
8/7/2018	0.00024 (J)				
9/19/2018		5.7E-05 (J)			
9/24/2018	0.00019 (J)				
9/26/2018			<0.0005	<0.0005	<0.0005
3/4/2019			<0.0005	<0.0005	<0.0005
4/3/2019			<0.0005	<0.0005	<0.0005
8/20/2019		<0.0005			
8/21/2019	0.0002 (J)				
9/24/2019				<0.0005	<0.0005
9/25/2019			<0.0005		
10/9/2019	0.0002 (J)				
2/12/2020	0.00018 (J)		<0.0005	<0.0005	<0.0005
3/24/2020	0.00022 (J)			<0.0005	<0.0005
3/25/2020			<0.0005		
8/27/2020		4.7E-05 (J)			
9/22/2020		<0.0005	<0.0005	<0.0005	<0.0005
9/24/2020	0.0002 (J)				
2/8/2021				<0.0005	<0.0005
2/9/2021			<0.0005		
2/10/2021	0.00021 (J)				
3/1/2021		5.5E-05 (J)			
3/2/2021				<0.0005	<0.0005
3/3/2021			<0.0005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
3/4/2021	0.00021 (J)				
8/19/2021		<0.0005			
8/26/2021			<0.0005	<0.0005	<0.0005
9/3/2021	0.00024 (J)				
2/8/2022	0.00028 (J)	5.6E-05 (J)			
2/10/2022				<0.0005	<0.0005
2/11/2022			<0.0005		
8/30/2022				<0.0005	<0.0005
8/31/2022	0.00025 (J)	<0.0005	<0.0005		
2/7/2023				<0.0005	
2/8/2023	0.00026 (J)	<0.0005			
2/9/2023			<0.0005		<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	0.0315 (J)	0.0553 (J)	0.0305 (J)	0.0315 (J)			
9/1/2016					3.25	0.0191 (J)	0.0108 (J)
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)	
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)	
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
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)
10/16/2017	<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)	
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		
2/25/2019	<0.04						<0.04
2/26/2019		0.062	0.017 (J)	0.0053 (J)	0.75	0.033 (J)	
6/12/2019	<0.04		0.013 (J)		1.5		
6/13/2019		0.057		<0.04		0.03 (J)	<0.04
10/8/2019	<0.04						<0.04
10/9/2019		0.029 (J)	0.018 (J)			0.013 (J)	
10/10/2019				0.0061 (J)	0.78		
3/17/2020	0.0051 (J)	0.092 (J)		0.0099 (J)			<0.04
3/18/2020			0.026 (J)		5.4	0.034 (J)	
9/22/2020	0.0079 (J)	0.025 (J)	0.046 (J)	0.0066 (J)	1		
9/23/2020						0.028 (J)	0.0055 (J)
3/1/2021		0.046	0.087		5.1		
3/2/2021	<0.04			0.0071 (J)		0.023 (J)	
3/3/2021							<0.04
8/18/2021		0.029 (J)	0.14	<0.04	4.5	0.021 (J)	<0.04
8/20/2021	<0.04						
2/8/2022	<0.04	0.021 (J)		<0.04	5.3		<0.04
2/9/2022			0.23			0.043	
8/30/2022	<0.04	0.015 (J)		0.014 (J)	4.4	0.058	0.0092 (J)
8/31/2022			0.19				
2/7/2023	<0.04	0.015 (J)				0.017 (J)	<0.04
2/8/2023			0.22	<0.04	2.7		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					<0.04	<0.04	
6/2/2016	<0.1						
6/6/2016			<0.04	<0.04			
6/7/2016		<0.04					<0.04
7/25/2016						<0.04	
7/26/2016	0.0177 (J)				0.0055 (J)		
7/27/2016		0.008 (J)	<0.04	0.0059 (J)			<0.04
9/13/2016					<0.04	<0.04	
9/15/2016	0.0214 (J)						
9/16/2016		0.0086 (J)		0.0079 (J)			
9/19/2016			<0.04				<0.04
11/1/2016					0.0086 (J)		
11/2/2016	<0.1						<0.04
11/3/2016		0.0077 (J)	<0.04	0.0082 (J)			
11/4/2016						<0.04	
1/10/2017	0.0198 (J)						
1/11/2017		0.0092 (J)	<0.04	0.0096 (J)	0.0074 (J)		
1/13/2017							<0.04
1/16/2017						<0.04	
3/1/2017			<0.04	<0.04			
3/2/2017		0.0095 (J)			0.008 (J)	<0.04	
3/6/2017							<0.04
3/8/2017	0.0189 (J)						
4/26/2017	0.0161 (J)		<0.04	0.0091 (J)			<0.04
4/27/2017					0.0066 (J)	<0.04	
5/2/2017		<0.04					
6/27/2017					0.0087 (J)	0.006 (J)	
6/28/2017			<0.04	0.0079 (J)			
6/29/2017		0.0074 (J)					<0.04
6/30/2017	0.0173 (J)						
10/3/2017					0.0072 (J)	0.0071 (J)	
10/4/2017		0.0077 (J)		0.009 (J)			<0.04
10/5/2017	0.0173 (J)		<0.04				
6/5/2018					0.0052 (J)		
6/6/2018						<0.04	0.0049 (J)
6/7/2018			<0.04				
6/8/2018	0.013 (J)						
6/11/2018		0.01 (J)		0.0093 (J)			
9/25/2018		0.0096 (J)	0.0046 (J)	0.007 (J)			<0.04
10/1/2018	0.015 (J)				0.021 (J)	0.0049 (J)	
3/28/2019					0.005 (J)	<0.04	
3/29/2019	0.014 (J)						
4/2/2019		0.0066 (J)					
4/3/2019			<0.04	0.0053 (J)			<0.04
9/24/2019					0.0064 (J)	0.0055 (J)	
9/25/2019	0.018 (J)	0.0081 (J)					<0.04
9/26/2019			0.0062 (J)	0.0072 (J)			
3/18/2020	0.02 (J)					0.0087 (J)	
3/19/2020					0.0085 (J)		
3/24/2020		0.0092 (J)	0.0054 (J)	0.01 (J)			<0.04
9/23/2020		0.0066 (J)	0.021 (J)	0.006 (J)	<0.04	<0.04	
9/24/2020							0.0094 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/25/2020	0.02 (J)						
3/2/2021	0.017 (J)						
3/3/2021		0.01 (J)	<0.04	0.0094 (J)	<0.04	<0.04	<0.04
8/19/2021	0.018 (J)				<0.04	<0.04	
8/26/2021				<0.04			
8/27/2021		0.011 (J)	<0.04				<0.04
2/9/2022		0.0098 (J)	<0.04	<0.04	<0.04	<0.04	<0.04
2/10/2022	0.02 (J)						
8/30/2022		0.013 (J)	<0.04	0.014 (J)	<0.04		
8/31/2022	0.015 (J)					<0.04	<0.04
2/7/2023		0.014 (J)	<0.04	<0.04	<0.04	<0.04	<0.04
2/8/2023	0.015 (J)						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						<0.04	
6/2/2016			<0.04		<0.04		
6/7/2016	<0.04						
7/25/2016			<0.04			<0.04	
7/26/2016					0.0097 (J)		
7/28/2016	<0.04						
9/14/2016		<0.04				<0.04	
9/15/2016					0.0102 (J)		
9/19/2016	<0.04		<0.04				
11/1/2016			<0.04		<0.04	<0.04	
11/3/2016	<0.04						
11/4/2016		<0.04					
12/15/2016		0.0107 (J)					
1/11/2017					<0.04	<0.04	
1/13/2017	<0.04						
1/16/2017		<0.04	<0.04				
2/21/2017			<0.04				
3/1/2017						<0.04	
3/2/2017					0.0084 (J)		
3/3/2017		<0.04					
3/6/2017	<0.04						
4/26/2017	<0.04		<0.04		<0.04	<0.04	
4/28/2017		<0.04					
5/26/2017		<0.04					
6/28/2017		<0.04			<0.04	<0.04	
6/29/2017	<0.04						
6/30/2017			<0.04				
10/3/2017	<0.04	<0.04					
10/4/2017			<0.04		<0.04	<0.04	
10/11/2017				0.0135 (J)			
10/12/2017							0.0401
11/20/2017				0.0251 (J)			0.156
1/10/2018							0.15
1/11/2018				0.0255 (J)			
2/19/2018							0.146
2/20/2018				<0.04			
4/3/2018				0.033 (J)			0.12
6/5/2018	0.0092 (J)						
6/7/2018		<0.04			0.004 (J)		
6/8/2018						<0.04	
6/11/2018			0.014 (J)				
6/28/2018				0.053			0.16
8/7/2018				0.024 (J)			0.12
9/24/2018				0.028 (J)			0.099
9/25/2018	0.0054 (J)						
10/1/2018		<0.04			<0.04	<0.04	
10/2/2018			<0.04				
3/26/2019							0.096
3/27/2019				0.017 (J)			
3/29/2019		0.0065 (J)					
4/1/2019			<0.04		<0.04	<0.04	
4/2/2019	0.011 (J)						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
9/24/2019	0.018 (J)	0.0076 (J)					
9/25/2019			<0.04		0.0054 (J)	<0.04	
10/9/2019				0.017 (J)			0.079
3/19/2020		0.0073 (J)	0.0052 (J)		0.0073 (J)	0.0053 (J)	
3/24/2020	0.016 (J)						0.088 (J)
3/25/2020				0.043 (J)			
9/23/2020		<0.04			0.012 (J)	0.0073 (J)	
9/24/2020	0.013 (J)		0.0075 (J)	0.037 (J)			0.087 (J)
3/1/2021			<0.04				
3/3/2021		<0.04			<0.04	<0.04	
3/4/2021	0.0079 (J)			0.033 (J)			0.078
8/19/2021			<0.04		<0.04		
8/26/2021				0.095			
8/27/2021		<0.04				<0.04	
9/1/2021	<0.04						
9/3/2021							0.077
2/8/2022				0.13			0.074
2/9/2022	<0.04	<0.04			0.01 (J)	<0.04	
2/11/2022			<0.04				
8/30/2022	0.012 (J)	<0.04					
8/31/2022			<0.04	0.14	<0.04	<0.04	0.062
2/7/2023	<0.04	<0.04		0.13			
2/8/2023			<0.04		<0.04	<0.04	0.057

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		<0.04	<0.04	<0.04
7/26/2016		0.0047 (J)	0.0052 (J)	<0.04
8/30/2016	0.0166 (J)			
9/14/2016		<0.04	0.0071 (J)	0.01 (J)
11/2/2016		<0.04	<0.04	
11/4/2016				<0.04
11/14/2016	0.0166 (J)			
1/12/2017			0.0076 (J)	<0.04
1/13/2017		<0.04		
2/24/2017	0.0145 (J)			
3/6/2017		<0.04		
3/7/2017			0.0089 (J)	<0.04
5/1/2017		<0.04	0.0061 (J)	
5/2/2017				<0.04
5/8/2017	0.0141 (J)			
6/27/2017			0.0079 (J)	<0.04
6/29/2017		<0.04		
7/11/2017	0.0131 (J)			
10/3/2017			0.0094 (J)	<0.04
10/5/2017		<0.04		
10/10/2017	0.0124 (J)			
4/2/2018	0.013 (J)			
6/6/2018			0.0098 (J)	
6/7/2018		0.0045 (J)		<0.04
9/19/2018	0.012 (J)			
9/26/2018		0.005 (J)	0.01 (J)	0.0057 (J)
3/27/2019	0.013 (J)			
4/3/2019		0.0055 (J)	0.0076 (J)	0.0044 (J)
9/24/2019			0.01 (J)	0.0049 (J)
9/25/2019		<0.04		
10/8/2019	0.012 (J)			
3/17/2020	0.023 (J)			
3/24/2020			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)
3/1/2021	0.013 (J)			
3/2/2021			0.0068 (J)	0.011 (J)
3/3/2021		0.0056 (J)		
8/19/2021	0.011 (J)			
8/26/2021		<0.04	0.009 (J)	<0.04
2/8/2022	0.015 (J)			
2/10/2022			0.011 (J)	<0.04
2/11/2022		<0.04		
8/30/2022			0.0098 (J)	<0.04
8/31/2022	0.0091 (J)	<0.04		
2/7/2023			<0.04	
2/8/2023	0.011 (J)			
2/9/2023		<0.04		<0.04

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/2/2023 10:14 AM

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	<0.0005						
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	<0.001	
9/8/2011	<0.0005	<0.0025					<0.0005
3/4/2012					<0.0005		
3/5/2012	<0.0005	<0.0025		<0.0005		<0.001	<0.0005
3/6/2012			<0.0005				
9/5/2012		<0.0025		<0.0005		<0.001	<0.0005
9/10/2012	<0.0005				<0.0005		
9/11/2012			<0.0005				
2/5/2013		<0.0025				<0.001	<0.0005
2/6/2013	<0.0005		<0.0005	<0.0005	<0.0005		
8/12/2013	<0.0005						
8/13/2013		<0.0025	<0.0005	<0.0005			<0.0005
8/14/2013					<0.0005	<0.001	
2/4/2014		<0.0025	<0.0005		<0.0005		<0.0005
2/5/2014	<0.0005			<0.0005		<0.001	
8/4/2014				0.00034 (J)	<0.0005	0.00045 (J)	
8/5/2014	<0.0005	<0.0025	<0.0005				<0.0005
2/2/2015		<0.0025	<0.0005		<0.0005		
2/3/2015				<0.0005		<0.001	<0.0005
2/4/2015	<0.0005						
8/3/2015	<0.0005			<0.0005 (D)	<0.0005 (D)	0.00046 (JD)	
8/4/2015		<0.0025 (D)	<0.0005				<0.0005
2/16/2016	<0.0005	<0.0025		0.00025 (J)	<0.0005	0.00097 (J)	<0.0005
2/17/2016			<0.0005				
8/31/2016	<0.0005	<0.0025	0.0001 (J)	<0.0005			
9/1/2016					0.0001 (J)	0.0005 (J)	<0.0005
11/28/2016	<0.0005		0.0001 (J)				
11/29/2016		8E-05 (J)					<0.0005
11/30/2016				<0.0005	<0.0005		
12/1/2016						0.0004 (J)	
2/22/2017	<0.0005		<0.0005				
2/23/2017		<0.0025		<0.0005			<0.0005
2/24/2017					<0.0005	0.0003 (J)	
5/8/2017	<0.0005						
5/9/2017		<0.0025		<0.0005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
5/10/2017			<0.0005		<0.0005	0.0003 (J)	<0.0005
7/17/2017	<0.0005					0.0004 (J)	
7/18/2017		<0.0025	<0.0005	<0.0005	<0.0005		<0.0005
10/16/2017	<0.0005					0.0006 (J)	
10/17/2017		<0.0025	<0.0005		<0.0005		
10/18/2017				<0.0005			<0.0005
2/19/2018	<0.0005						<0.0005
2/20/2018			<0.0005		<0.0005		
2/21/2018		<0.0025		<0.0005		<0.001	
8/6/2018	<0.0005						<0.0005
8/7/2018		<0.0025		<0.0005		0.00083 (J)	
8/8/2018			<0.0005		<0.0005		
2/25/2019	<0.0005						<0.0005
2/26/2019		<0.0025	<0.0005	0.00011 (J)	<0.0005	0.00081 (J)	
6/12/2019	<0.0005		<0.0005		<0.0005		
6/13/2019		<0.0025		0.00021 (J)		0.00073 (J)	<0.0005
8/19/2019	<0.0005				<0.0005		
8/20/2019		<0.0025	<0.0005				<0.0005
8/21/2019				<0.0005		0.0012 (J)	
10/8/2019	<0.0005						<0.0005
10/9/2019		<0.0025	<0.0005			0.0011 (J)	
10/10/2019				0.00018 (J)	<0.0005		
3/17/2020	<0.0005	<0.0025		0.00037 (J)			<0.0005
3/18/2020			<0.0005		<0.0005	0.0012 (J)	
8/26/2020	<0.0005						
8/27/2020		0.00012 (J)				0.00091 (J)	<0.0005
8/28/2020			0.00015 (J)	0.00014 (J)	<0.0005		
9/22/2020	<0.0005	0.00016 (J)	0.00016 (J)	0.00013 (J)	<0.0005		
9/23/2020						0.00094 (J)	<0.0005
3/1/2021		0.00013 (J)	0.00016 (J)		<0.0005		
3/2/2021	<0.0005			0.00021 (J)		0.0011	
3/3/2021							<0.0005
8/18/2021		0.00017 (J)	0.00016 (J)	0.00022 (J)	<0.0005	0.001	<0.0005
8/20/2021	<0.0005						
2/8/2022	<0.0005	0.00019 (J)		0.00018 (J)	<0.0005		<0.0005
2/9/2022			<0.0005			0.001	
8/30/2022	<0.0005	0.00026 (J)		0.00016 (J)	0.00011 (J)	0.00098	<0.0005
8/31/2022			0.00012 (J)				
2/7/2023	0.00012 (J)	0.0002 (J)				0.0013	<0.0005
2/8/2023			<0.0005	<0.0005	<0.0005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (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	
7/26/2016	<0.0005				<0.0005		
7/27/2016		<0.0005	<0.0005	<0.0005			<0.0005
9/13/2016					<0.0005	<0.0005	
9/15/2016	<0.0005						
9/16/2016		<0.0005		<0.0005			
9/19/2016			<0.0005				<0.0005
11/1/2016					<0.0005		
11/2/2016	<0.0005						<0.0005
11/3/2016		<0.0005	<0.0005	<0.0005			
11/4/2016						<0.0005	
1/10/2017	<0.0005						
1/11/2017		0.0001 (J)	<0.0005	0.0001 (J)	0.0002 (J)		
1/13/2017							<0.0005
1/16/2017						<0.0005	
3/1/2017			<0.0005	<0.0005			
3/2/2017		<0.0005			<0.0005	<0.0005	
3/6/2017							<0.0005
3/8/2017	7E-05 (J)						
4/26/2017	<0.0005		<0.0005	<0.0005			<0.0005
4/27/2017					<0.0005	<0.0005	
5/2/2017		<0.0005					
6/27/2017					<0.0005	<0.0005	
6/28/2017			<0.0005	<0.0005			
6/29/2017		<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			
3/29/2018					<0.0005		<0.0005
6/6/2018							<0.0005
6/7/2018			<0.0005				
6/11/2018		<0.0005		<0.0005			
9/25/2018		<0.0005	<0.0005	<0.0005			<0.0005
2/26/2019	<0.0005						
2/27/2019					<0.0005	<0.0005	
3/5/2019		<0.0005		<0.0005			<0.0005
3/6/2019			<0.0005				
3/28/2019					<0.0005	<0.0005	
3/29/2019	<0.0005						
4/2/2019		<0.0005					
4/3/2019			<0.0005	<0.0005			<0.0005
9/24/2019					<0.0005	<0.0005	
9/25/2019	<0.0005	<0.0005					<0.0005
9/26/2019			<0.0005	<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
3/18/2020	<0.0005					<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
3/19/2020					<0.0005		
3/24/2020		<0.0005	<0.0005	<0.0005			<0.0005
9/23/2020		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
9/24/2020							<0.0005
9/25/2020	<0.0005						
2/9/2021			<0.0005	<0.0005			<0.0005
2/10/2021	<0.0005						
2/12/2021					<0.0005	<0.0005	
3/2/2021	<0.0005						
3/3/2021		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/19/2021	<0.0005				<0.0005	<0.0005	
8/26/2021				<0.0005			
8/27/2021		<0.0005	<0.0005				<0.0005
2/9/2022		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/10/2022	<0.0005						
8/30/2022		<0.0005	<0.0005	<0.0005	<0.0005		
8/31/2022	<0.0005					<0.0005	<0.0005
2/7/2023		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/8/2023	<0.0005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						<0.0005	
6/2/2016			<0.0005		<0.0005		
6/7/2016	<0.0005						
7/25/2016			<0.0005			<0.0005	
7/26/2016					<0.0005		
7/28/2016	<0.0005						
9/14/2016		<0.0005				<0.0005	
9/15/2016					<0.0005		
9/19/2016	<0.0005		<0.0005				
11/1/2016			<0.0005		<0.0005	<0.0005	
11/3/2016	<0.0005						
11/4/2016		<0.0005					
12/15/2016		<0.0005					
1/11/2017					0.0001 (J)	8E-05 (J)	
1/13/2017	<0.0005						
1/16/2017		<0.0005	<0.0005				
2/21/2017			<0.0005				
3/1/2017						<0.0005	
3/2/2017					<0.0005		
3/3/2017		<0.0005					
3/6/2017	<0.0005						
4/26/2017	<0.0005		<0.0005		<0.0005	<0.0005	
4/28/2017		<0.0005					
5/26/2017		<0.0005					
6/28/2017		<0.0005			<0.0005	<0.0005	
6/29/2017	<0.0005						
6/30/2017			<0.0005				
10/11/2017				<0.0025			
10/12/2017							<0.0005
11/20/2017				<0.0025			<0.0005
1/10/2018							<0.0005
1/11/2018				<0.0025			
2/19/2018							<0.0005
2/20/2018				<0.0025			
3/27/2018			<0.0005				
3/28/2018		<0.0005			<0.0005	<0.0005	
3/29/2018	<0.0005						
4/3/2018				<0.0025			<0.0005
6/5/2018	<0.0005						
6/28/2018				<0.0025			<0.0005
8/7/2018				<0.0025			<0.0005
9/24/2018				<0.0025			<0.0005
9/25/2018	9.6E-05 (J)						
2/26/2019			<0.0005				
2/27/2019		<0.0005			<0.0005	<0.0005	
3/5/2019	<0.0005						
3/29/2019		<0.0005					
4/1/2019			<0.0005		<0.0005	<0.0005	
4/2/2019	<0.0005						
8/21/2019				<0.0025			<0.0005
9/24/2019	<0.0005	<0.0005					
9/25/2019			<0.0005		<0.0005	<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
10/9/2019				<0.0025			<0.0005
2/11/2020		<0.0005				<0.0005	
2/12/2020	<0.0005		<0.0005	<0.0025	<0.0005		<0.0005
3/19/2020		<0.0005	<0.0005		<0.0005	<0.0005	
3/24/2020	<0.0005						<0.0005
3/25/2020				<0.0025			
9/23/2020		<0.0005			<0.0005	<0.0005	
9/24/2020	<0.0005		<0.0005	<0.0025			<0.0005
2/9/2021	0.00041 (J)						
2/10/2021		<0.0005		0.00019 (J)	<0.0005	<0.0005	<0.0005
2/11/2021			<0.0005				
3/1/2021			<0.0005				
3/3/2021		<0.0005			<0.0005	<0.0005	
3/4/2021	<0.0005			0.0003 (J)			<0.0005
8/19/2021			<0.0005		<0.0005		
8/26/2021				0.00049 (J)			
8/27/2021		<0.0005				<0.0005	
9/1/2021	<0.0005						
9/3/2021							<0.0005
2/8/2022				0.00063			<0.0005
2/9/2022	<0.0005	<0.0005			<0.0005	<0.0005	
2/11/2022			<0.0005				
8/30/2022	<0.0005	<0.0005					
8/31/2022			<0.0005	0.00044 (J)	<0.0005	<0.0005	<0.0005
2/7/2023	0.00012 (J)	<0.0005		0.00014 (J)			
2/8/2023			<0.0005		<0.0005	0.00013 (J)	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		<0.0005	<0.0005	<0.0005
7/26/2016		<0.0005	<0.0005	<0.0005
8/30/2016	0.0001 (J)			
9/14/2016		<0.0005	<0.0005	<0.0005
11/2/2016		<0.0005	<0.0005	
11/4/2016				<0.0005
11/14/2016	0.0001 (J)			
1/12/2017			<0.0005	9E-05 (J)
1/13/2017		<0.0005		
2/24/2017	9E-05 (J)			
3/6/2017		<0.0005		
3/7/2017			<0.0005	<0.0005
5/1/2017		<0.0005	<0.0005	
5/2/2017				<0.0005
5/8/2017	0.0001 (J)			
6/27/2017			<0.0005	<0.0005
6/29/2017		<0.0005		
7/11/2017	<0.0005			
10/10/2017	<0.0005			
3/29/2018		<0.0005	<0.0005	<0.0005
4/2/2018	<0.0005			
6/6/2018			<0.0005	
6/7/2018		<0.0005		<0.0005
9/19/2018	<0.0005			
9/26/2018		<0.0005	<0.0005	<0.0005
3/4/2019		<0.0005	<0.0005	<0.0005
4/3/2019		<0.0005	<0.0005	<0.0005
8/20/2019	<0.0005			
9/24/2019			<0.0005	<0.0005
9/25/2019		<0.0005		
10/8/2019	<0.0005			
2/12/2020		<0.0005	<0.0005	<0.0005
3/17/2020	<0.0005			
3/24/2020			<0.0005	<0.0005
3/25/2020		<0.0005		
8/27/2020	<0.0005			
9/22/2020		<0.0005	<0.0005	<0.0005
2/8/2021			<0.0005	<0.0005
2/9/2021		<0.0005		
3/2/2021			<0.0005	<0.0005
3/3/2021		<0.0005		
8/19/2021	<0.0005			
8/26/2021		<0.0005	<0.0005	<0.0005
2/8/2022	<0.0005			
2/10/2022			<0.0005	<0.0005
2/11/2022		<0.0005		
8/30/2022			<0.0005	<0.0005
8/31/2022	<0.0005	<0.0005		
2/7/2023			<0.0005	
2/8/2023	0.00032 (J)			
2/9/2023		<0.0005		<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	9.31	69.4	19.9	7.23			
9/1/2016					37.1	113	56.8
11/28/2016	9.47 (B)		17.7 (B)				
11/29/2016		70.6 (B)					50.7 (B)
11/30/2016				6.43 (B)	13.4 (B)		
12/1/2016						141 (B)	
2/22/2017	10.4		16.2				
2/23/2017		62.4		4.25			63.5
2/24/2017					29.5	118	
5/8/2017	14.2						
5/9/2017		47.4		3.56			
5/10/2017			11.8		17	136	105
7/17/2017	14.1					125	
7/18/2017		33.2	8.69	4.16	16.8		157
10/16/2017	13.6					78.2	
10/17/2017		38.7	9.77		14.3		
10/18/2017				5.67			118
2/19/2018	<25						124
2/20/2018			<25		<25		
2/21/2018		34.3		4.76		64	
8/6/2018	11.4 (J)						173
8/7/2018		26.2		4.7		83	
8/8/2018			13.4 (J)		22.1 (J)		
2/25/2019	12.7 (J)						143
2/26/2019		24.7 (J)	20.9 (J)	7.1	15.1 (J)	94.4	
6/12/2019	18.9		26.6		24.2		
6/13/2019		33.8		15.7		127	146
10/8/2019	28.3						115
10/9/2019		59.1	27.8			128	
10/10/2019				4.3	18		
3/17/2020	24.3	36.7		20.3			66.8
3/18/2020			34.5		76.6	149	
9/22/2020	31	98.8	40.5	6.2	21.8		
9/23/2020						144	103
3/1/2021		117	54.1		69.5		
3/2/2021	34.2			17.9		145	
3/3/2021							105
8/18/2021		154	45.8	20.2	56.2	159	74.5
8/20/2021	26.5						
2/8/2022	25.6	166		17.9	66.5		61.5
2/9/2022			46.6			139	
8/30/2022	23.5	189		17.5	55.8	135	40.6
8/31/2022			46.9				
2/7/2023	22.3	179				112	30.8
2/8/2023			48	11.2	39		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					12	2.5	
6/2/2016	1.3						
6/6/2016			6.2	1.4			
6/7/2016		2.2					2.3
7/25/2016						2.16	
7/26/2016	1.24				11		
7/27/2016		2	4.73	1.19			2.08
9/13/2016					11.8	2.21	
9/15/2016	1.17						
9/16/2016		1.97		1.5			
9/19/2016			4.76				1.97
11/1/2016					11		
11/2/2016	1.23						2.13
11/3/2016		1.99	5.25	1.31			
11/4/2016						2.67	
1/10/2017	1.24						
1/11/2017		2.28	4.74	1.25	11.2		
1/13/2017							2.45
1/16/2017						2.45	
3/1/2017			5.37	1.26			
3/2/2017		2.15			11	2.57	
3/6/2017							2.48
3/8/2017	1.21						
4/26/2017	1.14		4.28	1.05			2.3
4/27/2017					11.1	2.38	
5/2/2017		1.95					
6/27/2017					13.8	2.36	
6/28/2017			4.95	1.06			
6/29/2017		2.02					2.54
6/30/2017	1.24						
10/3/2017					14	2.21	
10/4/2017		2.03		1.1			2.25
10/5/2017	1.11		5.28				
6/5/2018					15.2 (J)		
6/6/2018						2.3	2.3
6/7/2018			4.8				
6/8/2018	1.1						
6/11/2018		2.1		1.4			
9/25/2018		2.1	4.6	1			2.3
10/1/2018	0.99				15.1	1.8	
3/28/2019					13.3 (J)	2.2	
3/29/2019	1.1						
4/2/2019		2.5					
4/3/2019			5.3	1.2			2.9
9/24/2019					15.8	2.3	
9/25/2019	1.1	2.6					2.4
9/26/2019			4.9	1.1			
3/18/2020	1.1					2.1	
3/19/2020					15		
3/24/2020		2.7	5.3	1			2.6
9/23/2020		2.6	5.2	0.91 (J)	14.1	1.8	
9/24/2020							2.6

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/25/2020	1.3						
3/2/2021	1.2						
3/3/2021		2.5	5.2	0.96 (J)	14.1	1.8	2.4
8/19/2021	1.2				14.2	2	
8/26/2021				0.98 (J)			
8/27/2021		2.7	5.1				2.4
2/9/2022		2.8	5.1	0.87 (J)	14.9	2.1	2.3
2/10/2022	1.3						
8/30/2022		3	5.7	0.77 (J)	14.9		
8/31/2022	1.3					1.9	2.4
2/7/2023		2.9	5.5	0.79 (J)	15	2.2	2.4
2/8/2023	1.5						

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						21	
6/2/2016			1.3		28		
6/7/2016	3.7						
7/25/2016			1.17			20.3	
7/26/2016					24.5		
7/28/2016	3.15						
9/14/2016		23.5				19.7	
9/15/2016					27		
9/19/2016	3.17		1.05				
11/1/2016			1.14		25.6	18.4	
11/3/2016	3.4						
11/4/2016		23.7					
12/15/2016		23.1					
1/11/2017					27.5	20.3	
1/13/2017	4.98						
1/16/2017		23.3	1.23				
2/21/2017			1.25				
3/1/2017						18.6	
3/2/2017					27.5		
3/3/2017		25.1					
3/6/2017	6.28						
4/26/2017	6.65		1.03		30.4	25.6	
4/28/2017		30.7					
5/26/2017		26.2					
6/28/2017		26.1			29.8	23.9	
6/29/2017	6.04						
6/30/2017			1.13				
10/3/2017	8.28	26.7					
10/4/2017			1.09		29.7	22.1	
10/11/2017				2.74			
10/12/2017							2.9
11/20/2017				1.81			10.4
1/10/2018							10.2
1/11/2018				1.54			
2/19/2018							<25
2/20/2018				1.71			
4/3/2018				1.4			6.3
6/5/2018	9.1						
6/7/2018		25			29.1		
6/8/2018						21.9 (J)	
6/11/2018			1.1				
6/28/2018				1.4			6.7
8/7/2018				1.2			6.3
9/24/2018				1.1			5.7
9/25/2018	10.4 (J)						
10/1/2018		25			26.9	19.7	
10/2/2018			1.1				
3/26/2019							5.6
3/27/2019				1.5			
3/29/2019		23.5 (J)					
4/1/2019			1.3		30.1	20.4 (J)	
4/2/2019	8.8						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
9/24/2019	7.7	26.4					
9/25/2019			1.1		29.5	22.4	
10/9/2019				2.4			4.9
3/19/2020		27.4	1.2		31.5	21.9	
3/24/2020	6						4.8
3/25/2020				2.7			
9/23/2020		26.3			28.6	23.6	
9/24/2020	7.8		1.1	3.7			4.4
3/1/2021			1.2				
3/3/2021		25.6			29.8	20.6	
3/4/2021	8.7			8.2			4.6
8/19/2021			1.2		28.1		
8/26/2021				14.1			
8/27/2021		22.6				24.7	
9/1/2021	9.5						
9/3/2021							5.6
2/8/2022				15.2			6
2/9/2022	9.8	23.4			30.3	23.7	
2/11/2022			1.5				
8/30/2022	7.3	25.4					
8/31/2022			1.3	16.3	28.7	23.5	6.2
2/7/2023	7.5	25.6		16.1			
2/8/2023			1.3		28.9	23.3	5.9

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		8.8	33	2.4
7/26/2016		7.69	32.3	2.12
8/30/2016	20.9			
9/14/2016		8.49	31	2.18
11/2/2016		7.83	30.9	
11/4/2016				2.17 (J)
11/14/2016	18.6			
1/12/2017			35.7	2.37
1/13/2017		8.08		
2/24/2017	16.1			
3/6/2017		8.64		
3/7/2017			32.7	2.34
5/1/2017		13.4	37	
5/2/2017				2.17
5/8/2017	14.6			
6/27/2017			36.5	2.13
6/29/2017		8.81		
7/11/2017	14.3			
10/3/2017			30.9	2.15
10/5/2017		9.29		
10/10/2017	12.1			
4/2/2018	<25			
6/6/2018			26.2	
6/7/2018		8.2		2.3
9/19/2018	11.1 (J)			
9/26/2018		9.5 (J)	25.8	2.3
3/27/2019	10.8 (J)			
4/3/2019		8.4	24.7 (J)	2.8
9/24/2019			25.8	2.5
9/25/2019		9.5		
10/8/2019	9.7			
3/17/2020	14.8			
3/24/2020			26.1	2.5
3/25/2020		10.5		
9/22/2020	10.1	9.6	27.2	2.6
3/1/2021	10.3			
3/2/2021			1.6	2.6
3/3/2021		7.7		
8/19/2021	9.6			
8/26/2021		7.6	25.2	2.5
2/8/2022	9.4			
2/10/2022			24.8	2.5
2/11/2022		7.5		
8/30/2022			24.8	2.5
8/31/2022	9.6	8.9		
2/7/2023			26.6	
2/8/2023	9.2			
2/9/2023		9.6		2.8

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	4	7.6	6.3	6.7			
9/1/2016					190	6.6	4.4
11/28/2016	4.2		6.7				
11/29/2016		5.8					4.8
11/30/2016				7.8	48		
12/1/2016						6	
2/22/2017	3.7		5.7				
2/23/2017		6.2		6.5			4.4
2/24/2017					130	3.4	
5/8/2017	4.2						
5/9/2017		16		7.2			
5/10/2017			7.1		71	4.5	3.9
7/17/2017	3.8					3.2	
7/18/2017		18	6	7.7	46		4
10/16/2017	4.2					9	
10/17/2017		31	6.1		50		
10/18/2017				6.5			4.1
2/19/2018	4.3						4.4
2/20/2018			5.8		53.1		
2/21/2018		27		6.7		5.6	
8/6/2018	3.8						3.9
8/7/2018		35.4		6.3		4.7	
8/8/2018			4.7		69.3		
2/25/2019	4.1						4.4
2/26/2019		20	5.7	5.7	42.2	4.2	
6/12/2019	4.7		9.1		69.5		
6/13/2019		16.4		5		5.5	6.2
10/8/2019	5.1						4.9
10/9/2019		6.9	9.8			4.5	
10/10/2019				5.3	42.8		
3/17/2020	4.8	15.5		5.2			4.4
3/18/2020			11.7		233	3.8	
9/22/2020	4.2	5.5	24.7	4.2	60.2		
9/23/2020						3	4.7
3/1/2021		8.6	49.6		194		
3/2/2021	4.1			5.5		2.9	
3/3/2021							5
8/18/2021		5.2	26.2	4.6	150	2.3	5.4
8/20/2021	5.2						
2/8/2022	5.7	5.6		4.5	162		6.9
2/9/2022			21.2			2	
8/30/2022	6.3	5.6		3.1	146	1.8	7.5
8/31/2022			14.5				
2/7/2023	6.1	6.2				2.1	7.9
2/8/2023			12.3	3.4	121		

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					1.3	1.6	
6/2/2016	4.1						
6/6/2016			6.8	6.4			
6/7/2016		4.5					1.9
7/25/2016						1.4	
7/26/2016	4				1.2		
7/27/2016		4.5	6.7	6.2			1.9
9/13/2016					1.1	1.3	
9/15/2016	4.2						
9/16/2016		4.5		6.1			
9/19/2016			7				1.9
11/1/2016					1.3		
11/2/2016	4.9						2.6
11/3/2016		5.4	7.5	7.4			
11/4/2016						1.6	
1/10/2017	4.1						
1/11/2017		4.7	6.5	6.1	1.1		
1/13/2017							2.3
1/16/2017						1.4	
3/1/2017			6.9	6			
3/2/2017		4.8			1	1.3	
3/6/2017							1.9
3/8/2017	4.2						
4/26/2017	4.1		7	6.5			2
4/27/2017					1	1.3	
5/2/2017		4.6					
6/27/2017					1.1	1.4	
6/28/2017			7	6.4			
6/29/2017		4.5					2.6
6/30/2017	3.7						
10/3/2017					1.1	1.7	
10/4/2017		4.7		6.8			2.6
10/5/2017	3.8		7				
6/5/2018					1.1		
6/6/2018						1.4	2.7
6/7/2018			6.8				
6/8/2018	3.4						
6/11/2018		4.9		6.8			
9/25/2018		5.6	7.9	7.8			3.6
10/1/2018	3.8				1.1	1.4	
3/28/2019					1.4	1.5	
3/29/2019	4.2						
4/2/2019		4.8					
4/3/2019			6.9	6.3			3.1
9/24/2019					1.1	1.3	
9/25/2019	4.8	5.7					2.8
9/26/2019			7	7.1			
3/18/2020	5.2					1.4	
3/19/2020					1.1		
3/24/2020		5	7	6.8			2.7
9/23/2020		6.6	7.2	7.2	0.99 (J)	1.2	
9/24/2020							2.7

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/25/2020	5.3						
3/2/2021	4.9						
3/3/2021		7.1	7	7.2	0.96 (J)	1.2	2.7
8/19/2021	5				1.1	1.3	
8/26/2021				7.3			
8/27/2021		8.5	7.4				2.8
2/9/2022		10.9	7.5	7	1	1.3	2.8
2/10/2022	4.7						
8/30/2022		12	7.9	7	1.3		
8/31/2022	4.6					1.5	2.9
2/7/2023		11.4	7.4	6.4	1.3	1.5	2.9
2/8/2023	4.9						

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						1.3	
6/2/2016			1.9		1.4		
6/7/2016	2.8						
7/25/2016			1.7			1.3	
7/26/2016					1.6		
7/28/2016	2.6						
9/14/2016		1.1				1.3	
9/15/2016					1.5		
9/19/2016	2.4		1.6				
11/1/2016			1.8		1.7	1.4	
11/3/2016	2.9						
11/4/2016		1.4					
12/15/2016		2.9					
1/11/2017					1.2	1.1	
1/13/2017	2.5						
1/16/2017		0.98	1.7				
2/21/2017			1.7				
3/1/2017						1.1	
3/2/2017					1.2		
3/3/2017		1.1					
3/6/2017	2.1						
4/26/2017	2.1		1.7		1.2	1.1	
4/28/2017		0.91					
5/26/2017		0.93					
6/28/2017		1			1.3	1.2	
6/29/2017	2.8						
6/30/2017			1.8				
10/3/2017	2.2	1.2					
10/4/2017			1.8		1.5	1.2	
10/11/2017				2.4			
10/12/2017							3.8
11/20/2017				1.8			4.4
1/10/2018							4.6
1/11/2018				1.6			
2/19/2018							4.6
2/20/2018				2			
4/3/2018				3.3			5.9
6/5/2018	1.7						
6/7/2018		1			1.2		
6/8/2018						1.2	
6/11/2018			2				
6/28/2018				2.1			5
8/7/2018				1.2			4.3
9/24/2018				1.3			4.9
9/25/2018	2.2						
10/1/2018		1.1			1.5	1.2	
10/2/2018			1.8				
3/26/2019							4.4
3/27/2019				1.4			
3/29/2019		1.2					
4/1/2019			1.7		1.2	1.1	
4/2/2019	2.5						

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
9/24/2019	3.1	0.95 (J)					
9/25/2019			1.6		1.1	1.1	
10/9/2019				2.1			5.1
3/19/2020		0.97 (J)	1.8		1.2	1.1	
3/24/2020	2.8						4.7
3/25/2020				1.9			
9/23/2020		0.88 (J)			1.1	1	
9/24/2020	2		1.5	2.7			5
3/1/2021			1.6				
3/3/2021		0.86 (J)			1.1	0.99 (J)	
3/4/2021	1.8			4.9			4.9
8/19/2021			1.6		1.1		
8/26/2021				7.2			
8/27/2021		0.99 (J)				1.1	
9/1/2021	1.8						
9/3/2021							5.5
2/8/2022				7.4			6.2
2/9/2022	1.7	1 (J)			1.1	1.1	
2/11/2022			2.1				
8/30/2022	2.4	1.2					
8/31/2022			1.8	6.7	1.3	1.3	6.3
2/7/2023	2.4	1.1		5.6			
2/8/2023			1.6		1.2	1.1	6.9

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		3.7	7.2	4.3
7/26/2016		3.6	6.6	4.4
8/30/2016	5.2			
9/14/2016		3.4	6.6	3.8
11/2/2016		4.5	7.6	
11/4/2016				4.8
11/14/2016	6.4			
1/12/2017			6.8	3.8
1/13/2017		4.2		
2/24/2017	5.5			
3/6/2017		3.6		
3/7/2017			6.8	4.5
5/1/2017		4.3	7.2	
5/2/2017				4.6
5/8/2017	5.8			
6/27/2017			7	4.3
6/29/2017		4.2		
7/11/2017	5.8			
10/3/2017			6.5	4.2
10/5/2017		4.7		
10/10/2017	5.9			
4/2/2018	4.8			
6/6/2018			4.7	
6/7/2018		4.4		4.5
9/19/2018	4			
9/26/2018		4.8	4.8	5.1
3/27/2019	4.3			
4/3/2019		4.3	4	4.2
9/24/2019			3.7	4.5
9/25/2019		4.5		
10/8/2019	4.4			
3/17/2020	4.1			
3/24/2020			3.5	4.3
3/25/2020		3.9		
9/22/2020	4.2	4.5	3.6	4.2
3/1/2021	3.7			
3/2/2021			3.2	4.3
3/3/2021		4.1		
8/19/2021	3.5			
8/26/2021		4.4	3.4	4.3
2/8/2022	3.2			
2/10/2022			3.2	4.4
2/11/2022		4.1		
8/30/2022			3.5	4.4
8/31/2022	3.5	4.4		
2/7/2023			3.3	
2/8/2023	3.5			
2/9/2023		4.5		5

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/2/2023 10:14 AM

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
9/9/1998	<0.007						
9/20/1999	0.01						
9/12/2001	<0.007						
9/3/2002	<0.007						
7/29/2003	<0.007						
12/5/2003	<0.007						
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					
11/18/2009		0.0036					
3/3/2010		<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					
3/11/2011				<0.005		<0.005	
3/28/2011				<0.005		<0.005	
9/7/2011				<0.005	<0.005	<0.005	<0.01
9/8/2011		<0.005	<0.01				
3/4/2012						<0.005	
3/5/2012		<0.005	<0.01		<0.005		<0.01
3/6/2012				<0.005			
9/5/2012			<0.01		<0.005		<0.01
9/10/2012		<0.005				<0.005	
9/11/2012				<0.005			
2/5/2013			<0.01				<0.01
2/6/2013		<0.005		<0.005	<0.005	<0.005	
8/12/2013		<0.005					
8/13/2013			<0.01	0.0017	0.0019		
8/14/2013						<0.005	0.0016
2/4/2014			<0.01	<0.005		<0.005	
2/5/2014		0.0059			0.0023		0.0018
8/4/2014					0.002	<0.005	0.0029
8/5/2014		<0.005	<0.01	<0.005			
2/2/2015			0.0028	<0.005		<0.005	
2/3/2015					0.0014		0.0017
2/4/2015		<0.005					
8/3/2015		0.0011 (J)			0.0012 (JD)	<0.005 (D)	0.0028 (D)
8/4/2015			<0.01 (D)	<0.005			
2/16/2016		<0.005	<0.01		0.0017	<0.005	0.0028
2/17/2016				<0.005			
8/31/2016		<0.005	0.0012 (J)	<0.005	0.0013 (J)		
9/1/2016						<0.005	0.0021 (J)
11/28/2016		<0.005		<0.005			
11/29/2016			0.0009 (J)				
11/30/2016					0.001 (J)	0.0013 (J)	
12/1/2016							0.0017 (J)
2/22/2017		<0.005		<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/2/2023 10:14 AM

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
2/23/2017			0.001 (J)		0.0012 (J)		
2/24/2017						<0.005	0.0018 (J)
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)
7/17/2017		<0.005					0.0017 (J)
7/18/2017			0.0008 (J)	<0.005	0.0009 (J)	0.0011 (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)		
2/19/2018		<0.005					
2/20/2018				<0.005		<0.005	
2/21/2018			<0.01		<0.005		<0.01
8/6/2018		<0.005					
8/7/2018			<0.01		<0.005		0.0024 (J)
8/8/2018				<0.005		<0.005	
2/25/2019		<0.005					
2/26/2019			<0.01	<0.005	<0.005	<0.005	0.0019 (J)
6/12/2019		<0.005		<0.005		<0.005	
6/13/2019			0.0009 (J)		0.00073 (J)		0.0018 (J)
8/19/2019		<0.005				0.00051 (J)	
8/20/2019			0.0011 (J)	<0.005			
8/21/2019					0.001 (J)		0.0024 (J)
10/8/2019		<0.005					
10/9/2019			0.0012 (J)	0.00059 (J)			0.0024 (J)
10/10/2019					0.0014 (J)	0.00057 (J)	
3/17/2020		<0.005	0.001 (J)		0.0013 (J)		
3/18/2020				0.0004 (J)		<0.005	0.0023 (J)
8/26/2020		<0.005					
8/27/2020			0.0013 (J)				0.0022 (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)
3/1/2021			0.0012 (J)	<0.005		<0.005	
3/2/2021		<0.005			0.001 (J)		0.0021 (J)
8/18/2021			0.0015 (J)	<0.005	<0.005	<0.005	0.0023 (J)
8/20/2021		<0.005					
2/8/2022		<0.005	0.002 (J)		0.0011 (J)	<0.005	
2/9/2022				<0.005			0.0022 (J)
8/30/2022		<0.005	0.0015 (J)		<0.005	<0.005	0.0019 (J)
8/31/2022				<0.005			
2/7/2023		<0.005	0.002 (J)				0.0028 (J)
2/8/2023				<0.005	0.0017 (J)	0.0012 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
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)						
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				
7/25/2016							<0.005
7/26/2016		<0.005				<0.005	
7/27/2016			0.0008 (J)	0.0007 (J)	0.0006 (J)		
9/1/2016	0.0015 (J)						
9/13/2016						<0.005	<0.005
9/15/2016		<0.005					
9/16/2016			<0.005		<0.005		
9/19/2016				<0.005			
11/1/2016						<0.005	
11/2/2016		<0.005					
11/3/2016			<0.005	<0.005	<0.005		
11/4/2016							<0.005
11/29/2016	0.0014 (J)						
1/10/2017		<0.005					
1/11/2017			<0.005	<0.005	<0.005	<0.005	
1/16/2017							<0.005
2/23/2017	0.0017 (J)						
3/1/2017				0.0012 (J)	<0.005		
3/2/2017			0.001 (J)			0.0009 (J)	0.0004 (J)
3/8/2017		<0.005					
4/26/2017		<0.005		0.0005 (J)	0.0003 (J)		
4/27/2017						<0.005	<0.005
5/2/2017			0.0007 (J)				
5/10/2017	0.0015 (J)						
6/27/2017						<0.005	<0.005
6/28/2017				0.0006 (J)	<0.005		
6/29/2017			0.0006 (J)				
6/30/2017		<0.005					
7/18/2017	0.0012 (J)						
10/18/2017	0.0012 (J)						
2/19/2018	<0.01						
3/27/2018		<0.005					<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
3/28/2018			<0.005	<0.005	<0.005		
3/29/2018						<0.005	
8/6/2018	<0.01						
2/25/2019	<0.01						
2/26/2019		<0.005					
2/27/2019						<0.005	<0.005
3/5/2019			<0.005		<0.005		
3/6/2019				<0.005			
3/28/2019						<0.005	0.0021 (J)
3/29/2019		<0.005					
6/13/2019	0.00089 (J)						
8/20/2019	0.0017 (J)						
9/24/2019						0.00072 (J)	0.0028 (J)
9/25/2019		<0.005					
10/8/2019	0.0014 (J)						
2/10/2020						0.00042 (J)	<0.005
2/11/2020			0.00087 (J)	0.001 (J)	0.00088 (J)		
2/12/2020		<0.005					
3/17/2020	0.0013 (J)						
3/18/2020		<0.005					0.00044 (J)
3/19/2020						0.00084 (J)	
3/24/2020			0.00087 (J)	0.00095 (J)	0.0011 (J)		
8/27/2020	0.0012 (J)						
9/23/2020	0.0015 (J)		0.00098 (J)	0.00092 (J)	0.0012 (J)	0.00062 (J)	0.00058 (J)
9/25/2020		<0.005					
2/9/2021				0.00083 (J)	0.0013 (J)		
2/10/2021		<0.005					
2/12/2021						<0.005	<0.005
3/2/2021		<0.005					
3/3/2021	0.0014 (J)		0.00082 (J)	0.00087 (J)	0.001 (J)	<0.005	<0.005
8/18/2021	0.0015 (J)						
8/19/2021		<0.005				<0.005	<0.005
8/26/2021					<0.005		
8/27/2021			<0.005	<0.005			
2/8/2022	0.0017 (J)						
2/9/2022			<0.005	<0.005	0.0014 (J)	<0.005	<0.005
2/10/2022		<0.005					
8/30/2022	0.0016 (J)		<0.005	<0.005	0.0015 (J)	0.0011 (J)	
8/31/2022		<0.005					<0.005
2/7/2023	0.0025 (J)		<0.005	<0.005	0.0016 (J)	<0.005	0.0013 (J)
2/8/2023		<0.005					

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016							<0.005
6/2/2016				<0.005		0.0013 (J)	
6/7/2016	<0.005	<0.005					
7/25/2016				<0.005			<0.005
7/26/2016						<0.005	
7/27/2016	0.0005 (J)						
7/28/2016		<0.005					
9/14/2016			<0.005				<0.005
9/15/2016						<0.005	
9/19/2016	<0.005	<0.005		<0.005			
11/1/2016				<0.005		<0.005	<0.005
11/2/2016	<0.005						
11/3/2016		<0.005					
11/4/2016			<0.005				
12/15/2016			<0.005				
1/11/2017						<0.005	<0.005
1/13/2017	<0.005	<0.005					
1/16/2017			<0.005	<0.005			
2/21/2017				<0.005			
3/1/2017							0.0004 (J)
3/2/2017						0.0006 (J)	
3/3/2017			0.0005 (J)				
3/6/2017	<0.005	<0.005					
4/26/2017	0.0007 (J)	<0.005		0.0016 (J)		<0.005	<0.005
4/28/2017			0.0004 (J)				
5/26/2017			<0.005				
6/28/2017			<0.005			<0.005	<0.005
6/29/2017	0.0005 (J)	<0.005					
6/30/2017				<0.005			
10/11/2017					<0.005		
11/20/2017					<0.005		
1/11/2018					<0.005		
2/20/2018					<0.005		
3/27/2018				<0.005			
3/28/2018			<0.005			<0.005	<0.005
3/29/2018	<0.005	<0.005					
4/3/2018					<0.005		
6/28/2018					<0.005		
8/7/2018					<0.005		
9/24/2018					<0.005		
2/26/2019				<0.005			
2/27/2019			<0.005			<0.005	<0.005
3/5/2019	<0.005	<0.005					
3/29/2019			<0.005				
4/1/2019				<0.005		<0.005	<0.005
8/21/2019					<0.005		
9/24/2019			<0.005				
9/25/2019				<0.005		0.0014 (J)	0.0019 (J)
10/9/2019					<0.005		
2/11/2020			<0.005				<0.005
2/12/2020	0.00045 (J)	<0.005		<0.005	<0.005	<0.005	
3/19/2020			0.00048 (J)	<0.005		<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
3/24/2020	0.00077 (J)	<0.005					
3/25/2020					<0.005		
9/23/2020			<0.005			<0.005	<0.005
9/24/2020	0.00076 (J)	<0.005		<0.005	<0.005		
2/9/2021	0.00056 (J)	<0.005					
2/10/2021			<0.005		<0.005	<0.005	<0.005
2/11/2021				<0.005			
3/1/2021				<0.005			
3/3/2021	<0.005		<0.005			<0.005	<0.005
3/4/2021		<0.005			<0.005		
8/19/2021				<0.005		<0.005	
8/26/2021					<0.005		
8/27/2021	<0.005		<0.005				<0.005
9/1/2021		<0.005					
2/8/2022					<0.005		
2/9/2022	<0.005	<0.005	<0.005			<0.005	<0.005
2/11/2022				<0.005			
8/30/2022		<0.005	<0.005				
8/31/2022	<0.005			<0.005	<0.005	<0.005	<0.005
2/7/2023	<0.005	<0.005	<0.005		<0.005		
2/8/2023				0.0021 (J)		<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016			<0.005	<0.005	<0.005
7/26/2016			<0.005	<0.005	<0.005
8/30/2016		<0.005			
9/14/2016			<0.005	<0.005	<0.005
11/2/2016			<0.005	<0.005	
11/4/2016					<0.005
11/14/2016		0.0093 (J)			
1/12/2017				<0.005	<0.005
1/13/2017			<0.005		
2/24/2017		<0.005			
3/6/2017			<0.005		
3/7/2017				<0.005	<0.005
5/1/2017			<0.005	0.0004 (J)	
5/2/2017					<0.005
5/8/2017		<0.005			
6/27/2017				<0.005	<0.005
6/29/2017			<0.005		
7/11/2017		<0.005			
10/10/2017		<0.005			
10/12/2017	<0.005				
11/20/2017	<0.005				
1/10/2018	<0.005				
2/19/2018	<0.005				
3/29/2018			<0.005	<0.005	<0.005
4/2/2018		<0.005			
4/3/2018	<0.005				
6/28/2018	<0.005				
8/7/2018	<0.005				
9/19/2018		<0.005			
9/24/2018	<0.005				
3/4/2019			<0.005	<0.005	<0.005
8/20/2019		<0.005			
8/21/2019	0.00053 (J)				
10/9/2019	0.0012 (J)				
2/12/2020	0.00065 (J)		<0.005	<0.005	0.00043 (J)
3/24/2020	0.00055 (J)			<0.005	0.0014 (J)
3/25/2020			0.00058 (J)		
8/27/2020		<0.005			
9/22/2020		<0.005	<0.005	0.0011 (J)	<0.005
9/24/2020	<0.005				
2/8/2021				<0.005	<0.005
2/9/2021			<0.005		
2/10/2021	<0.005				
3/1/2021		<0.005			
3/2/2021				<0.005	<0.005
3/3/2021			0.0013 (J)		
3/4/2021	<0.005				
8/19/2021		<0.005			
8/26/2021			<0.005	<0.005	<0.005
9/3/2021	<0.005				
2/8/2022	<0.005	<0.005			
2/10/2022				<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
2/11/2022			<0.005		
8/30/2022				<0.005	<0.005
8/31/2022	<0.005	<0.005	<0.005		
2/7/2023				<0.005	
2/8/2023	<0.005	<0.005			
2/9/2023			<0.005		0.0012 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/2/2023 10:14 AM

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
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					
11/18/2009		<0.005					
3/3/2010		0.0027					
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					
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				
3/4/2012						0.0032	
3/5/2012		0.0032	<0.005		<0.005		<0.005
3/6/2012				0.021			
9/5/2012			0.0018		<0.005		<0.005
9/10/2012		<0.005				0.0067	
9/11/2012				0.017			
2/5/2013			0.0013				<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		
8/14/2013						0.0014	<0.005
2/4/2014			<0.005	0.019		<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			
2/2/2015			0.0015	0.022		<0.005	
2/3/2015					<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			
2/16/2016		0.0027	<0.005		<0.005	0.0082	<0.005
2/17/2016				0.024			
8/31/2016		0.0053 (J)	0.0006 (J)	0.0239	<0.005		
9/1/2016						0.0023 (J)	<0.005
11/28/2016		0.0036 (J)		0.0189			
11/29/2016			<0.005				
11/30/2016					<0.005	0.0008 (J)	
12/1/2016							<0.005
2/22/2017		0.0049 (J)		0.0184			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/2/2023 10:14 AM

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
2/23/2017			0.0009 (J)		<0.005		
2/24/2017						0.0025 (J)	<0.005
5/8/2017		0.0059 (J)					
5/9/2017			0.0008 (J)		<0.005		
5/10/2017				0.0213		<0.005	<0.005
7/17/2017		0.0046 (J)					<0.005
7/18/2017			0.0032 (J)	0.0261	<0.005	0.0005 (J)	
10/16/2017		0.0034 (J)					<0.005
10/17/2017			0.0007 (J)	0.0182		0.0006 (J)	
10/18/2017					<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		0.003 (J)					
8/7/2018			<0.005		<0.005		<0.005
8/8/2018				0.014		0.001 (J)	
2/25/2019		0.001 (J)					
2/26/2019			<0.005	0.029	<0.005	<0.005	<0.005
6/12/2019		0.003 (J)		0.013		0.00078 (J)	
6/13/2019			0.00033 (J)		0.01		<0.005
8/19/2019		0.0035 (J)				0.001 (J)	
8/20/2019			0.00079 (J)	0.014			
8/21/2019					0.0016 (J)		0.00034 (J)
10/8/2019		0.0039 (J)					
10/9/2019			0.00064 (J)	0.024			0.00031 (J)
10/10/2019					<0.005	0.00099 (J)	
3/17/2020		0.003 (J)	0.00054 (J)		0.011		
3/18/2020				0.019		0.0031 (J)	0.00044 (J)
8/26/2020		0.2 (o)					
8/27/2020			0.00081 (J)				<0.005
8/28/2020				0.0072	0.0041 (J)	0.00049 (J)	
9/22/2020		0.16 (o)	0.0008 (J)	0.0054	0.0021 (J)	0.00039 (J)	
9/23/2020							<0.005
3/1/2021			0.00083 (J)	0.00074 (J)		0.0016 (J)	
3/2/2021		0.21 (o)			0.0086		0.00039 (J)
8/18/2021			0.0014 (J)	0.00066 (J)	0.01	0.0027 (J)	0.00053 (J)
8/20/2021		0.074 (o)					
2/8/2022		0.072 (o)	0.0019 (J)		0.0074	0.0034 (J)	
2/9/2022				0.00085 (J)			0.00064 (J)
8/30/2022		0.075 (o)	0.00087 (J)		0.0021 (J)	0.002 (J)	0.00077 (J)
8/31/2022				0.0036 (J)			
2/7/2023		0.034	0.00086 (J)				0.00085 (J)
2/8/2023				0.00052 (J)	0.00085 (J)	0.0006 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
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						
6/1/2016						<0.005	0.00082 (J)
6/2/2016		<0.005					
6/6/2016				<0.005	0.00061 (J)		
6/7/2016			<0.005				
7/25/2016							0.0008 (J)
7/26/2016		<0.005				<0.005	
7/27/2016			<0.005	<0.005	0.0004 (J)		
9/1/2016	<0.005						
9/13/2016						<0.005	0.0009 (J)
9/15/2016		<0.005					
9/16/2016			<0.005		0.0008 (J)		
9/19/2016				<0.005			
11/1/2016						<0.005	
11/2/2016		<0.005					
11/3/2016			<0.005	<0.005	<0.005		
11/4/2016							0.0025 (J)
11/29/2016	<0.005						
1/10/2017		<0.005					
1/11/2017			<0.005	<0.005	<0.005	<0.005	
1/16/2017							0.0027 (J)
2/23/2017	<0.005						
3/1/2017				<0.005	<0.005		
3/2/2017			<0.005			<0.005	0.0022 (J)
3/8/2017		<0.005					
4/26/2017		<0.005		<0.005	<0.005		
4/27/2017						<0.005	0.0018 (J)
5/2/2017			<0.005				
5/10/2017	<0.005						
6/27/2017						<0.005	0.0023 (J)
6/28/2017				<0.005	<0.005		
6/29/2017			<0.005				
6/30/2017		<0.005					
7/18/2017	<0.005						
10/18/2017	<0.005						
2/19/2018	<0.005						
3/27/2018		<0.005					<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
3/28/2018			<0.005	<0.005	<0.005		
3/29/2018						<0.005	
6/5/2018						<0.005	
6/6/2018							<0.005
6/7/2018				<0.005			
6/8/2018		<0.005					
6/11/2018			<0.005		<0.005		
8/6/2018	<0.005						
9/25/2018			<0.005	<0.005	<0.005		
10/1/2018		<0.005				<0.005	0.00059 (J)
2/25/2019	<0.005						
2/26/2019		<0.005					
2/27/2019						<0.005	0.00064 (J)
3/5/2019			<0.005		<0.005		
3/6/2019				<0.005			
3/28/2019						<0.005	0.00091 (J)
3/29/2019		<0.005					
4/2/2019			<0.005				
4/3/2019				<0.005	<0.005		
6/13/2019	<0.005						
8/20/2019	<0.005						
9/24/2019						<0.005	0.0013 (J)
9/25/2019		<0.005	<0.005				
9/26/2019				<0.005	<0.005		
10/8/2019	<0.005						
2/10/2020						<0.005	0.0016 (J)
2/11/2020			<0.005	<0.005	<0.005		
2/12/2020		<0.005					
3/17/2020	<0.005						
3/18/2020		<0.005					0.00087 (J)
3/19/2020						<0.005	
3/24/2020			<0.005	<0.005	<0.005		
8/27/2020	<0.005						
9/23/2020	<0.005		<0.005	<0.005	<0.005	<0.005	0.0013 (J)
9/25/2020		<0.005					
2/9/2021				<0.005	<0.005		
2/10/2021		<0.005					
2/12/2021						0.00086 (J)	0.0028 (J)
3/2/2021		<0.005					
3/3/2021	<0.005		<0.005	<0.005	<0.005	<0.005	0.003 (J)
8/18/2021	<0.005						
8/19/2021		<0.005				0.00055 (J)	0.0017 (J)
8/26/2021					<0.005		
8/27/2021			<0.005	<0.005			
2/8/2022	<0.005						
2/9/2022			<0.005	<0.005	<0.005	0.00072 (J)	0.0023 (J)
2/10/2022		<0.005					
8/30/2022	<0.005		<0.005	<0.005	<0.005	<0.005	
8/31/2022		<0.005					0.00085 (J)
2/7/2023	<0.005		<0.005	<0.005	<0.005	0.00097 (J)	0.0048 (J)
2/8/2023		<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016							<0.005
6/2/2016				0.035		<0.005	
6/7/2016	<0.005	0.0056					
7/25/2016				0.0312			<0.005
7/26/2016						<0.005	
7/27/2016	<0.005						
7/28/2016		0.0032 (J)					
9/14/2016			<0.005				<0.005
9/15/2016						<0.005	
9/19/2016	<0.005	0.0047 (J)		0.0275			
11/1/2016				0.0255		<0.005	<0.005
11/2/2016	<0.005						
11/3/2016		0.013					
11/4/2016			<0.005				
12/15/2016			<0.005				
1/11/2017						<0.005	<0.005
1/13/2017	<0.005	0.011					
1/16/2017			<0.005	0.0245			
2/21/2017				0.0272			
3/1/2017							<0.005
3/2/2017						<0.005	
3/3/2017			<0.005				
3/6/2017	<0.005	0.011					
4/26/2017	<0.005	0.009 (J)		0.0244		<0.005	<0.005
4/28/2017			<0.005				
5/26/2017			<0.005				
6/28/2017			<0.005			<0.005	<0.005
6/29/2017	<0.005	0.0093 (J)					
6/30/2017				0.0233			
10/11/2017					<0.005		
11/20/2017					<0.005		
1/11/2018					<0.005		
2/20/2018					<0.005		
3/27/2018				0.023			
3/28/2018			<0.005			<0.005	<0.005
3/29/2018	<0.005	<0.005					
4/3/2018					<0.005		
6/5/2018		0.0041 (J)					
6/6/2018	<0.005						
6/7/2018			<0.005			<0.005	
6/8/2018							<0.005
6/11/2018				0.023			
6/28/2018					<0.005		
8/7/2018					<0.005		
9/24/2018					<0.005		
9/25/2018	<0.005	0.0044 (J)					
10/1/2018			<0.005			<0.005	<0.005
10/2/2018				0.022			
2/26/2019				0.021			
2/27/2019			<0.005			<0.005	<0.005
3/5/2019	<0.005	0.0039 (J)					
3/29/2019			<0.005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
4/1/2019				0.022		<0.005	<0.005
4/2/2019		0.0039 (J)					
4/3/2019	<0.005						
8/21/2019					0.00034 (J)		
9/24/2019		0.0032 (J)	<0.005				
9/25/2019	<0.005			0.016		<0.005	<0.005
10/9/2019					<0.005		
2/11/2020			<0.005				<0.005
2/12/2020	<0.005	0.0081		0.014	0.00034 (J)	<0.005	
3/19/2020			<0.005	0.014		<0.005	<0.005
3/24/2020	<0.005	0.0061					
3/25/2020					0.00034 (J)		
9/23/2020			<0.005			<0.005	<0.005
9/24/2020	<0.005	0.0079		0.0064	0.00053 (J)		
2/9/2021	<0.005	0.009					
2/10/2021			<0.005		0.00098 (J)	<0.005	<0.005
2/11/2021				0.0078			
3/1/2021				0.0061			
3/3/2021	<0.005		<0.005			<0.005	<0.005
3/4/2021		0.0065			0.00071 (J)		
8/19/2021				0.0052		<0.005	
8/26/2021					0.0011 (J)		
8/27/2021	<0.005		<0.005				<0.005
9/1/2021		0.0068					
2/8/2022					0.0012 (J)		
2/9/2022	<0.005	0.0078	<0.005			<0.005	<0.005
2/11/2022				0.0038 (J)			
8/30/2022		0.0066	<0.005				
8/31/2022	<0.005			0.004 (J)	0.00085 (J)	<0.005	<0.005
2/7/2023	<0.005	0.014	<0.005		0.00066 (J)		
2/8/2023				0.0031 (J)		<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016			0.00082 (J)	<0.005	<0.005
7/26/2016			0.0012 (J)	<0.005	<0.005
8/30/2016		0.0073 (J)			
9/14/2016			0.0006 (J)	<0.005	<0.005
11/2/2016			<0.005	<0.005	
11/4/2016					<0.005
11/14/2016		0.0115			
1/12/2017				<0.005	<0.005
1/13/2017			0.0029 (J)		
2/24/2017		0.0106			
3/6/2017			0.0006 (J)		
3/7/2017				<0.005	<0.005
5/1/2017			<0.005	<0.005	
5/2/2017					<0.005
5/8/2017		0.0099 (J)			
6/27/2017				<0.005	<0.005
6/29/2017			0.0005 (J)		
7/11/2017		0.0096 (J)			
10/10/2017		0.0036 (J)			
10/12/2017	<0.005				
11/20/2017	<0.005				
1/10/2018	<0.005				
2/19/2018	<0.005				
3/29/2018			<0.005	<0.005	<0.005
4/2/2018		<0.005			
4/3/2018	<0.005				
6/6/2018				<0.005	
6/7/2018			0.00058 (J)		<0.005
6/28/2018	<0.005				
8/7/2018	<0.005				
9/19/2018		0.0036 (J)			
9/24/2018	<0.005				
9/26/2018			<0.005	<0.005	<0.005
3/4/2019			<0.005	<0.005	<0.005
4/3/2019			0.00083 (J)	<0.005	<0.005
8/20/2019		0.00092 (J)			
8/21/2019	<0.005				
9/24/2019				<0.005	<0.005
9/25/2019			<0.005		
10/8/2019		0.0014 (J)			
10/9/2019	<0.005				
2/12/2020	<0.005		<0.005	0.00037 (J)	<0.005
3/17/2020		0.0017 (J)			
3/24/2020	<0.005			0.00035 (J)	<0.005
3/25/2020			0.00056 (J)		
8/27/2020		0.0011 (J)			
9/22/2020		0.00097 (J)	<0.005	<0.005	<0.005
9/24/2020	<0.005				
2/8/2021				<0.005	<0.005
2/9/2021			<0.005		
2/10/2021	<0.005				
3/1/2021		0.001 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
3/2/2021				<0.005	<0.005
3/3/2021			<0.005		
3/4/2021	<0.005				
8/19/2021		0.00099 (J)			
8/26/2021			0.00042 (J)	<0.005	<0.005
9/3/2021	<0.005				
2/8/2022	<0.005	0.0013 (J)			
2/10/2022				<0.005	<0.005
2/11/2022			<0.005		
8/30/2022				<0.005	<0.005
8/31/2022	<0.005	0.00096 (J)	<0.005		
2/7/2023				<0.005	
2/8/2023	<0.005	0.0011 (J)			
2/9/2023			<0.005		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	1.2						
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)	
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)	
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)
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)	
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)		
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	
10/8/2019	1.32 (U)						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 (U)	1.4		2.84			2.5
3/18/2020			1.3		0.866 (U)	0.788 (U)	
8/26/2020	1.75 (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	0.688 (U)	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	0.948 (U)			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)
8/20/2021	0.528 (U)						
2/8/2022	0.462 (U)	0.649 (U)		0.389 (U)	0.319 (U)		0.413 (U)
2/9/2022			0.42 (U)			0.48 (U)	
8/30/2022	1.52	0.476 (U)		0.884 (U)	0.433 (U)	1.36	0.861 (U)
8/31/2022			1.55				
2/7/2023	1	1.17				0.871 (U)	0.72 (U)
2/8/2023			0.453 (U)	0.0452 (U)	0.453 (U)		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					0.321 (U)	0.42	
6/2/2016	0.329 (U)						
6/6/2016			0.0804 (U)	0.301 (U)			
6/7/2016		0.158 (U)					0.0191 (U)
7/25/2016						1.83	
7/26/2016	1.51				0.707 (U)		
7/27/2016		0.0354 (U)	0.206 (U)	0.196 (U)			0.541 (U)
9/13/2016					1.22	0.841	
9/15/2016	1.04 (U)						
9/16/2016		1.04		0.915 (U)			
9/19/2016			1.58				0.826 (U)
11/1/2016					0.805 (U)		
11/2/2016	0.496 (U)						0.791 (U)
11/3/2016		0.314 (U)	0.342 (U)	0.928 (U)			
11/4/2016						0.166 (U)	
1/10/2017	0.376 (U)						
1/11/2017		0.34 (U)	0.365 (U)	0.502 (U)	0.705 (U)		
1/13/2017							0.296 (U)
1/16/2017						0	
3/1/2017			0.395 (U)	0.202 (U)			
3/2/2017		0.746 (U)			0.251 (U)	0.504 (U)	
3/6/2017							0.518 (U)
3/8/2017	0.0745 (U)						
4/26/2017	0.282 (U)		0.507 (U)	0.264 (U)			0.282 (U)
4/27/2017					1.08	0.593 (U)	
5/2/2017		0.111 (U)					
6/27/2017					1.02 (U)	0.657 (U)	
6/28/2017			0.892	0.636 (U)			
6/29/2017		0.576 (U)					1.12
6/30/2017	0.994						
3/27/2018	0.189 (U)					0.39 (U)	
3/28/2018		0.438 (U)	0.92 (U)	0.56 (U)			
3/29/2018					0.503 (U)		1.73
6/5/2018					0.771 (U)		
6/6/2018						2.8	0.694 (U)
6/7/2018			0.668 (U)				
6/8/2018	0.218 (U)						
6/11/2018		0.901 (U)		0.649 (U)			
9/25/2018		0.68 (U)	0.141 (U)	0.574 (U)			0.772 (U)
10/1/2018	1.24				0.783 (U)	1.06 (U)	
2/26/2019	0.202 (U)						
2/27/2019					1.21 (U)	0.637 (U)	
3/5/2019		0.272 (U)		0.474 (U)			0.84 (U)
3/6/2019			0.714 (U)				
3/28/2019					1.13 (U)	0.125 (U)	
3/29/2019	0 (U)						
4/2/2019		0.847 (U)					
4/3/2019			0.385 (U)	0.429 (U)			1.01
9/24/2019					1.22 (U)	0.949 (U)	
9/25/2019	0.707 (U)	0.412 (U)					1.18 (U)
9/26/2019			0.386 (U)	0.222 (U)			
2/10/2020					1.41	1.25 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
2/11/2020		0.461 (U)	1.48	0.597 (U)			
2/12/2020	1.07 (U)						1.11 (U)
3/18/2020	0.207 (U)					0.458 (U)	
3/19/2020					1.1		
3/24/2020		0.534 (U)	0.632 (U)	0.262 (U)			1.88
9/23/2020		0.466 (U)	0.887 (U)	0.43 (U)	1.35 (U)	0.00884 (U)	
9/24/2020							0.611 (U)
9/25/2020	0.603 (U)						
2/9/2021		0.529 (U)	0.314 (U)	0.259 (U)			0.284 (U)
2/10/2021	0.353 (U)						
2/12/2021					0.366 (U)	0.458 (U)	
3/2/2021	0.71 (U)						
3/3/2021		0.59 (U)	0.565 (U)	0.352 (U)	0.492 (U)	0.105 (U)	0.133 (U)
8/19/2021	0.786 (U)				1.17 (U)	0.0732 (U)	
8/26/2021				0.686 (U)			
8/27/2021		0.9 (U)	0.761 (U)				0.779 (U)
2/9/2022		0.133 (U)	0.571 (U)	0.0618 (U)	1.19	0.422 (U)	0.504 (U)
2/10/2022	0 (U)						
8/30/2022		1.08	1.01	0.611 (U)	0.827		
8/31/2022	0.421 (U)					0.49 (U)	0.184 (U)
2/7/2023		0.367 (U)	0.485 (U)	0.656 (U)	0.92 (U)	0.661 (U)	0.794 (U)
2/8/2023	0.83 (U)						

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						0.896	
6/2/2016			0.0652 (U)		2.51		
6/7/2016	0.347						
7/25/2016			3.01			2.28	
7/26/2016					3.82		
7/28/2016	0.815 (U)						
9/14/2016		0.98 (U)				0.821 (U)	
9/15/2016					4.24		
9/19/2016	0.862 (U)		0.871 (U)				
11/1/2016			0.307 (U)		3.92	0.585 (U)	
11/3/2016	0.797 (U)						
11/4/2016		0.277 (U)					
12/15/2016		0.071 (U)					
1/11/2017					2.52	1.22	
1/13/2017	0.72 (U)						
1/16/2017		0.44 (U)	0.284 (U)				
2/21/2017			0.503 (U)				
3/1/2017						0.877 (U)	
3/2/2017					3.13		
3/3/2017		0.448 (U)					
3/6/2017	0.518 (U)						
4/26/2017	1.13 (U)		0.204 (U)		2.35	0.672 (U)	
4/28/2017		0.548 (U)					
5/26/2017		0 (U)					
6/28/2017		0.608 (U)			2.6	1.07 (U)	
6/29/2017	0.841 (U)						
6/30/2017			0.738 (U)				
10/11/2017				0.586 (U)			
10/12/2017							1.49
11/20/2017				0.816 (U)			0.918 (U)
1/10/2018							1.05
1/11/2018				0.841 (U)			
2/19/2018							2.05
2/20/2018				1.58			
3/27/2018			0.31 (U)				
3/28/2018		0.412 (U)			3	0.65 (U)	
3/29/2018	1.91						
4/3/2018				0.385 (U)			0.68 (U)
6/5/2018	1.39						
6/7/2018		0.73 (U)			2.79		
6/8/2018						1.89	
6/11/2018			0.608 (U)				
6/28/2018				0.283 (U)			1.28
8/7/2018				0.332 (U)			1.16
9/24/2018				0.767 (U)			0.965 (U)
9/25/2018	1.62						
10/1/2018		0.756 (U)			3.14	1.58	
10/2/2018			0.97 (U)				
2/26/2019			0.524 (U)				
2/27/2019		0.635 (U)			3.79	3.67	
3/5/2019	0.985 (U)						
3/29/2019		0.224 (U)					

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
4/1/2019			1.02 (U)		4.33	2.28	
4/2/2019	1.42						
8/21/2019				1.01 (U)			1.24 (U)
9/24/2019	1.35	0.429 (U)					
9/25/2019			1.02 (U)		4.2	1.6	
10/8/2019				1.02 (U)			0.866 (U)
2/11/2020		0.817 (U)			3.87	1.85	
2/12/2020	1.61		0.301 (U)	0.45 (U)			1.83
3/19/2020		0.715 (U)	1		3.96	2.2	
3/24/2020	1.24 (U)						1.27 (U)
3/25/2020				0.377 (U)			
9/23/2020		0.565 (U)			4.14	1.14 (U)	
9/24/2020	1.8		0.684 (U)	0.568 (U)			0.634 (U)
2/9/2021	1.24						
2/10/2021		1.04 (U)		0.518 (U)	3.65	2.46	0.783 (U)
2/11/2021			0.678 (U)				
3/1/2021			0.412 (U)				
3/3/2021	1.2	0.459 (U)			3.58	2.03	
3/4/2021				0.636 (U)			0.818 (U)
8/19/2021			0.234 (U)		3.53		
8/26/2021				0.674 (U)			
8/27/2021		0.409 (U)				1.34	
9/1/2021	1.86						
9/3/2021							0.971 (U)
2/8/2022				0.834			0.534 (U)
2/9/2022	1.94	0.894 (U)			3.28	1.91	
2/10/2022			0.268 (U)				
8/30/2022	1.27	0.699 (U)					
8/31/2022			0.506 (U)	0.937	2.12	1.33	0.513 (U)
2/7/2023	1.53	0.536 (U)		1.41			
2/8/2023			0.417 (U)		2.74	1.18	1.56

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		0.721	5.11	0.614
7/26/2016		1.26	6.92	1.47
8/30/2016	1.09			
9/14/2016		0.901 (U)	3.96	1.27
11/2/2016		1.09 (U)	4.53	
11/4/2016				0.434 (U)
12/15/2016	1 (U)			
1/12/2017			4.43	0.202 (U)
1/13/2017		1.19		
2/24/2017	0.504 (U)			
3/6/2017		0.669 (U)		
3/7/2017			4.8	0.0674 (U)
5/1/2017		0.803 (U)	4.16	
5/2/2017				0.444 (U)
5/8/2017	0.455 (U)			
6/27/2017			2.8	0.77 (U)
6/29/2017		1.35		
7/11/2017	0.471 (U)			
10/10/2017	0.649 (U)			
3/29/2018		0.703 (U)	3.42	0.648 (U)
4/2/2018	0.512 (U)			
6/6/2018			3.99	
6/7/2018		0.628 (U)		0.745 (U)
9/19/2018	0.789 (U)			
9/26/2018		0.756 (U)	2.73	0.377 (U)
3/4/2019		1.21 (U)	4.43	1 (U)
4/3/2019		1.07 (U)	4.79	0.43 (U)
8/20/2019	2.44			
9/24/2019			4.06	0.699 (U)
9/25/2019		1.86		
10/8/2019	1.72			
2/12/2020		1.25	4.02	0.913 (U)
3/17/2020	1.22 (U)			
3/24/2020			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)
2/8/2021			2.89	0.613 (U)
2/9/2021		0.626 (U)		
3/1/2021	1.2			
3/2/2021			1.67	0.579 (U)
3/3/2021		1		
8/19/2021	1.07 (U)			
8/26/2021		1.17 (U)	4.68	0.798 (U)
2/8/2022	0.4 (U)			
2/10/2022			3.33	0.375 (U)
2/11/2022		0.996		
8/30/2022			5.34	0.72 (U)
8/31/2022	0.714 (U)	0.962		
2/7/2023			3.99	
2/8/2023	0.375 (U)			
2/9/2023		1.12		0.0815 (U)

Time Series

Constituent: Copper (mg/L) Analysis Run 5/2/2023 10:14 AM

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
9/9/1998	<0.006						
9/20/1999	<0.006						
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					
11/18/2009		0.0029					
3/3/2010		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					
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				
3/4/2012						<0.005	
3/5/2012		<0.005	<0.005		<0.005		<0.005
3/6/2012				<0.005			
9/5/2012			<0.005		0.016		<0.005
9/10/2012		<0.005				<0.005	
9/11/2012				<0.005			
2/5/2013			<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		
8/14/2013						<0.005	<0.005
2/4/2014			<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			
2/2/2015			0.0031 (J)	<0.005		<0.005	
2/3/2015					<0.005		<0.005
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			
2/16/2016		0.0011 (J)	<0.005		0.00082 (J)	0.00088 (J)	<0.005
2/17/2016				<0.005			
2/22/2017		0.0011 (J)		<0.005			
2/23/2017			<0.005		<0.005		
2/24/2017						<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					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Copper (mg/L) Analysis Run 5/2/2023 10:14 AM

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
8/7/2018			<0.005		<0.005		<0.005
8/8/2018				<0.005		<0.005	
2/25/2019		<0.005					
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)
10/8/2019		0.00041 (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)		
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
3/1/2021			<0.005	<0.005		<0.005	
3/2/2021		0.0027 (J)			<0.005		<0.005
8/18/2021			0.00067 (J)	<0.005	<0.005	<0.005	0.0022 (J)
8/20/2021		0.0012 (J)					
2/8/2022		0.0012 (J)	0.00072 (J)		<0.005	<0.005	
2/9/2022				<0.005			0.0014 (J)
8/30/2022		<0.005	<0.005		<0.005	<0.005	<0.005
8/31/2022				<0.005			
2/7/2023		<0.005	<0.005				<0.005
2/8/2023				<0.005	<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Copper (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	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)
2/8/2022	0.0008 (J)
8/30/2022	<0.005
2/7/2023	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	0.14 (J)	0.05 (J)	0.08 (J)	0.07 (J)			
9/1/2016					0.15 (J)	0.03 (J)	0.28 (J)
11/28/2016	0.12 (J)		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	0.09 (J)		0.04 (J)				
2/23/2017		0.06 (J)		0.04 (J)			0.07 (J)
2/24/2017					0.08 (J)	0.03 (J)	
5/8/2017	0.05 (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	0.14 (J)					0.37	
7/18/2017		<0.1	<0.1	<0.1	<0.1		<0.1
10/16/2017	0.12 (J)					<0.1	
10/17/2017		<0.1	<0.1		<0.1		
10/18/2017				0.22 (J)			<0.1
2/19/2018	0.17						<0.1
2/20/2018			<0.1		<0.1		
2/21/2018		<0.1		<0.1		<0.1	
8/6/2018	0.087 (J)						<0.1
8/7/2018		<0.1		<0.1		<0.1	
8/8/2018			<0.1		<0.1		
2/25/2019	0.14 (J)						<0.1
2/26/2019		<0.1	<0.1	<0.1	<0.1	0.035 (J)	
6/12/2019	0.12 (J)		0.58		<0.1		
6/13/2019		<0.1		0.58		<0.1	<0.1
8/19/2019	<0.3				<0.1		
8/20/2019		<0.1	<0.1				<0.1
8/21/2019				0.037 (J)		<0.1	
10/8/2019	0.052 (J)						<0.1
10/9/2019		<0.1	<0.1			0.35	
10/10/2019				<0.1	<0.1		
3/17/2020	0.053 (J)	<0.1		0.1 (J)			<0.1
3/18/2020			<0.1		<0.1	<0.1	
8/26/2020	0.068 (J)						
8/27/2020		<0.1				0.064 (J)	<0.1
8/28/2020			<0.1	0.097 (J)	<0.1		
9/22/2020	0.058 (J)	<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	0.073 (J)			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
8/20/2021	0.06 (J)						
2/8/2022	0.064 (J)	<0.1		0.16	<0.1		<0.1
2/9/2022			<0.1			0.053 (J)	
8/30/2022	0.086 (J)	<0.1		0.14	0.05 (J)	0.11	0.064 (J)
8/31/2022			<0.1				
2/7/2023	0.095 (J)	<0.1				0.077 (J)	0.07 (J)
2/8/2023			<0.1	0.12	0.05 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (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)	
7/26/2016	0.02 (J)				0.08 (J)		
7/27/2016		<0.1	<0.1	<0.1			<0.1
9/13/2016					0.11 (J)	<0.1	
9/15/2016	<0.1						
9/16/2016		<0.1		<0.1			
9/19/2016			<0.1				<0.1
11/1/2016					<0.3		
11/2/2016	<0.1						<0.1
11/3/2016		<0.1	<0.1	<0.1			
11/4/2016						<0.1	
1/10/2017	<0.1						
1/11/2017		<0.1	<0.1	<0.1	0.05 (J)		
1/13/2017							<0.1
1/16/2017						<0.1	
3/1/2017			<0.1	<0.1			
3/2/2017		<0.1			<0.3	<0.1	
3/6/2017							<0.1
3/8/2017	<0.1						
4/26/2017	<0.1		<0.1	<0.1			<0.1
4/27/2017					0.04 (J)	0.01 (J)	
5/2/2017		<0.1					
6/27/2017					<0.3	<0.1	
6/28/2017			<0.1	<0.1			
6/29/2017		<0.1					<0.1
6/30/2017	<0.1						
10/3/2017					<0.3	<0.1	
10/4/2017		<0.1		<0.1			<0.1
10/5/2017	<0.1		<0.1				
3/27/2018	<0.1					<0.1	
3/28/2018		<0.1	<0.1	<0.1			
3/29/2018					<0.3		<0.1
6/5/2018					0.055 (J)		
6/6/2018						<0.1	<0.1
6/7/2018			<0.1				
6/8/2018	<0.1						
6/11/2018		<0.1		<0.1			
9/25/2018		<0.1	<0.1	<0.1			<0.1
10/1/2018	<0.1				<0.3	<0.1	
2/26/2019	<0.1						
2/27/2019					0.052 (J)	<0.1	
3/5/2019		<0.1		<0.1			<0.1
3/6/2019			<0.1				
3/28/2019					0.036 (J)	<0.1	
3/29/2019	<0.1						
4/2/2019		<0.1					
4/3/2019			<0.1	<0.1			<0.1
9/24/2019					0.063 (J)	<0.1	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/25/2019	<0.1	<0.1					<0.1
9/26/2019			<0.1	<0.1			
2/10/2020					0.061 (J)	<0.1	
2/11/2020		<0.1	<0.1	<0.1			
2/12/2020	<0.1						<0.1
3/18/2020	<0.1					<0.1	
3/19/2020					0.064 (J)		
3/24/2020		<0.1	<0.1	<0.1			<0.1
9/23/2020		<0.1	<0.1	<0.1	0.058 (J)	<0.1	
9/24/2020							<0.1
9/25/2020	<0.1						
2/9/2021			<0.1	<0.1			<0.1
2/10/2021	<0.1						
2/12/2021					0.068 (J)	<0.1	
3/2/2021	<0.1						
3/3/2021		<0.1	<0.1	<0.1	0.078 (J)	<0.1	<0.1
8/19/2021	<0.1				0.074 (J)	<0.1	
8/26/2021				<0.1			
8/27/2021		<0.1	<0.1				<0.1
2/9/2022		<0.1	<0.1	<0.1	0.057 (J)	<0.1	<0.1
2/10/2022	<0.1						
8/30/2022		<0.1	<0.1	<0.1	0.093 (J)		
8/31/2022	0.053 (J)					0.065 (J)	<0.1
2/7/2023		<0.1	<0.1	<0.1	0.093 (J)	0.071 (J)	<0.1
2/8/2023	0.059 (J)						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						0.15 (J)	
6/2/2016			<0.1		0.62		
6/7/2016	<0.3						
7/25/2016			0.06 (J)			0.14 (J)	
7/26/2016					0.49		
7/28/2016	0.02 (J)						
9/14/2016		0.08 (J)				0.18 (J)	
9/15/2016					0.54		
9/19/2016	0.02 (J)		<0.1				
11/1/2016			<0.1		0.68	<0.1	
11/3/2016	<0.3						
11/4/2016		<0.3					
12/15/2016		0.06 (J)					
1/11/2017					0.49	0.09 (J)	
1/13/2017	<0.3						
1/16/2017		0.1 (J)	<0.1				
2/21/2017			<0.1				
3/1/2017						<0.1	
3/2/2017					0.48		
3/3/2017		<0.3					
3/6/2017	<0.3						
4/26/2017	0.04 (J)		<0.1		0.48	0.08 (J)	
4/28/2017		0.06 (J)					
5/26/2017		0.09 (J)					
6/28/2017		0.11 (J)			0.47	0.12 (J)	
6/29/2017	<0.3						
6/30/2017			<0.1				
10/3/2017	<0.3	<0.3					
10/4/2017			<0.1		<0.47	<0.1	
10/11/2017				<0.1			
10/12/2017							<0.1
11/20/2017				<0.1			<0.1
1/10/2018							<0.1
1/11/2018				<0.1			
2/19/2018							<0.1
2/20/2018				0.23			
3/27/2018			<0.1				
3/28/2018		0.31			0.56	<0.1	
3/29/2018	<0.3						
4/3/2018				<0.1			<0.1
6/5/2018	0.13 (J)						
6/7/2018		0.11 (J)			0.48		
6/8/2018						0.2 (J)	
6/11/2018			<0.1				
6/28/2018				<0.1			<0.1
8/7/2018				0.048 (J)			<0.1
9/24/2018				<0.1			<0.1
9/25/2018	0 (J)						
10/1/2018		<0.3			0.44	<0.1	
10/2/2018			<0.1				
2/26/2019			<0.1				
2/27/2019		0.12 (J)			0.53	0.13 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
3/5/2019	0.32						
3/26/2019							<0.1
3/27/2019				<0.1			
3/29/2019		0.13 (J)					
4/1/2019			<0.1		0.45	0.1 (J)	
4/2/2019	0.12 (J)						
8/21/2019				<0.1			<0.1
9/24/2019	0.15 (J)	0.081 (J)					
9/25/2019			<0.1		0.46	0.1 (J)	
10/9/2019				<0.1			<0.1
2/11/2020		0.075 (J)				0.094 (J)	
2/12/2020	0.1 (J)		<0.1	<0.1	0.4		<0.1
3/19/2020		0.093 (J)	<0.1		0.51	0.11 (J)	
3/24/2020	0.081 (J)						<0.1
3/25/2020				<0.1			
9/23/2020		0.08 (J)			0.47	0.098 (J)	
9/24/2020	0.079 (J)		<0.1	<0.1			<0.1
2/9/2021	0.092 (J)						
2/10/2021		0.094 (J)		<0.1	0.43	<0.1	<0.1
2/11/2021			<0.1				
3/1/2021			<0.1				
3/3/2021		0.085 (J)			0.44	0.1	
3/4/2021	0.091 (J)			<0.1			<0.1
8/19/2021			<0.1		0.47		
8/26/2021				0.063 (J)			
8/27/2021		0.12				0.12	
9/1/2021	0.11						
9/3/2021							<0.1
2/8/2022				0.052 (J)			<0.1
2/9/2022	0.1	0.094 (J)			0.43	0.097 (J)	
2/11/2022			<0.1				
8/30/2022	0.1	0.12					
8/31/2022			0.06 (J)	0.065 (J)	0.42	0.13	0.05 (J)
2/7/2023	0.1	0.12		0.076 (J)			
2/8/2023			0.064 (J)		0.56	0.16	<0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		<0.1	0.11 (J)	<0.1
7/26/2016		<0.1	0.05 (J)	<0.1
8/30/2016	0.09 (J)			
9/14/2016		<0.1	0.04 (J)	<0.1
11/2/2016		<0.1	<0.1	
11/4/2016				<0.1
11/14/2016	0.18 (J)			
1/12/2017			0.04 (J)	<0.1
1/13/2017		<0.1		
2/24/2017	0.05 (J)			
3/6/2017		<0.1		
3/7/2017			<0.1	<0.1
5/1/2017		<0.1	<0.1	
5/2/2017				<0.1
5/8/2017	0.03 (J)			
6/27/2017			<0.1	<0.1
6/29/2017		<0.1		
7/11/2017	0.07 (J)			
10/3/2017			<0.1	<0.1
10/5/2017		<0.1		
10/10/2017	<0.1			
3/29/2018		<0.1	<0.1	<0.1
4/2/2018	<0.1			
6/6/2018			0.15 (J)	
6/7/2018		<0.1		<0.1
9/19/2018	<0.1			
9/26/2018		<0.1	<0.1	<0.1
3/4/2019		<0.1	0.19 (J)	<0.1
3/27/2019	0.081 (J)			
4/3/2019		<0.1	0.047 (J)	<0.1
8/20/2019	<0.1			
9/24/2019			0.05 (J)	<0.1
9/25/2019		<0.1		
10/8/2019	0.034 (J)			
2/12/2020		<0.1	<0.1	<0.1
3/17/2020	<0.1			
3/24/2020			<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
2/8/2021			0.055 (J)	<0.1
2/9/2021		<0.1		
3/1/2021	<0.1			
3/2/2021			<0.1	<0.1
3/3/2021		<0.1		
8/19/2021	<0.1			
8/26/2021		<0.1	0.061 (J)	<0.1
2/8/2022	<0.1			
2/10/2022			0.055 (J)	<0.1
2/11/2022		<0.1		
8/30/2022			0.085 (J)	<0.1
8/31/2022	0.065 (J)	0.061 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
2/7/2023			0.082 (J)	
2/8/2023	0.077 (J)			
2/9/2023		0.067 (J)		<0.1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/2/2023 10:14 AM

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
9/9/1998	0.006						
9/20/1999	<0.01						
9/12/2001	0.0042						
9/3/2002	<0.01						
7/29/2003	0.015						
12/5/2003	<0.01						
9/22/2004	<0.01						
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					
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					
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				
3/4/2012						<0.001	
3/5/2012		<0.001	<0.001		<0.001		<0.001
3/6/2012				<0.001			
9/5/2012			<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
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		
8/14/2013						<0.001	<0.001
2/4/2014			<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
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			
2/16/2016		<0.001	<0.001		<0.001	<0.001	<0.001
2/17/2016				<0.001			
8/31/2016		<0.001	<0.001	<0.001	0.0001 (J)		
9/1/2016						<0.001	<0.001
11/28/2016		<0.001		<0.001			
11/29/2016			<0.001				
11/30/2016					<0.001	<0.001	
12/1/2016							<0.001
2/22/2017		<0.001		<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/2/2023 10:14 AM

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
2/23/2017			<0.001		<0.001		
2/24/2017						<0.001	<0.001
5/8/2017		<0.001					
5/9/2017			<0.001		<0.001		
5/10/2017				0.0001 (J)		<0.001	<0.001
7/17/2017		<0.001					<0.001
7/18/2017			<0.001	7E-05 (J)	<0.001	<0.001	
10/16/2017		<0.001					<0.001
10/17/2017			<0.001	<0.001		<0.001	
10/18/2017					8E-05 (J)		
2/19/2018		<0.001					
2/20/2018				<0.001		<0.001	
2/21/2018			<0.001		<0.001		<0.001
8/6/2018		<0.001					
8/7/2018			<0.001		<0.001		<0.001
8/8/2018				<0.001		<0.001	
2/25/2019		<0.001					
2/26/2019			<0.001	<0.001	<0.001	<0.001	<0.001
6/12/2019		<0.001		<0.001		<0.001	
6/13/2019			<0.001		<0.001		<0.001
8/19/2019		<0.001				<0.001	
8/20/2019			<0.001	6.1E-05 (J)			
8/21/2019					8.2E-05 (J)		7E-05 (J)
10/8/2019		<0.001					
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	<0.001		0.00015 (J)		
3/18/2020				<0.001		<0.001	7.9E-05 (J)
8/26/2020		<0.001					
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		0.0001 (J)	<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		<0.001			9.6E-05 (J)		5.4E-05 (J)
8/18/2021			<0.001	<0.001	<0.001	<0.001	<0.001
8/20/2021		<0.001					
2/8/2022		<0.001	<0.001		<0.001	<0.001	
2/9/2022				<0.001			<0.001
8/30/2022		<0.001	<0.001		<0.001	<0.001	<0.001
8/31/2022				<0.001			
2/7/2023		<0.001	<0.001				<0.001
2/8/2023				<0.001	<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
9/9/2009	<0.001						
11/18/2009	<0.001						
1/5/2010	<0.001						
3/3/2010	<0.001						
9/7/2010	<0.001						
3/10/2011	<0.001						
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						
2/3/2015	<0.001						
8/4/2015	<0.001						
2/16/2016	<0.001						
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				
7/25/2016							<0.001
7/26/2016		<0.001				<0.001	
7/27/2016			<0.001	<0.001	<0.001		
9/1/2016	<0.001						
9/13/2016						0.0001 (J)	<0.001
9/15/2016		<0.001					
9/16/2016			<0.001		<0.001		
9/19/2016				<0.001			
11/1/2016						<0.001	
11/2/2016		<0.001					
11/3/2016			<0.001	<0.001	<0.001		
11/4/2016							<0.001
11/29/2016	<0.001						
1/10/2017		<0.001					
1/11/2017			<0.001	<0.001	<0.001	<0.001	
1/16/2017							<0.001
2/23/2017	<0.001						
3/1/2017				<0.001	<0.001		
3/2/2017			8E-05 (J)			0.0001 (J)	<0.001
3/8/2017		0.0001 (J)					
4/26/2017		<0.001		<0.001	<0.001		
4/27/2017						<0.001	<0.001
5/2/2017			<0.001				
5/10/2017	<0.001						
6/27/2017						<0.001	<0.001
6/28/2017				<0.001	0.0001 (J)		
6/29/2017			8E-05 (J)				
6/30/2017		<0.001					
7/18/2017	<0.001						
10/18/2017	<0.001						
2/19/2018	<0.001						
3/27/2018		<0.001					<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
3/28/2018			<0.001	<0.001	<0.001		
3/29/2018						<0.001	
8/6/2018	<0.001						
2/25/2019	<0.001						
2/26/2019		<0.001					
2/27/2019						<0.001	<0.001
3/5/2019			<0.001		<0.001		
3/6/2019				<0.001			
4/2/2019			<0.001				
4/3/2019				<0.001	<0.001		
6/13/2019	<0.001						
8/20/2019	<0.001						
9/25/2019			<0.001				
9/26/2019				<0.001	<0.001		
10/8/2019	<0.001						
2/10/2020						4.9E-05 (J)	<0.001
2/11/2020			<0.001	<0.001	<0.001		
2/12/2020		<0.001					
3/17/2020	<0.001						
3/18/2020		<0.001					<0.001
3/19/2020						0.00012 (J)	
3/24/2020			6.4E-05 (J)	7.1E-05 (J)	5.4E-05 (J)		
8/27/2020	<0.001						
9/23/2020	<0.001		4.1E-05 (J)	6E-05 (J)	9.7E-05 (J)	<0.001	0.00021 (J)
9/25/2020		<0.001					
2/9/2021				5E-05 (J)	9.4E-05 (J)		
2/10/2021		4.8E-05 (J)					
2/12/2021						4.4E-05 (J)	0.00038 (J)
3/2/2021		<0.001					
3/3/2021	<0.001		<0.001	<0.001	7.6E-05 (J)	5.6E-05 (J)	<0.001
8/18/2021	<0.001						
8/19/2021		<0.001				<0.001	<0.001
8/26/2021					<0.001		
8/27/2021			<0.001	<0.001			
2/8/2022	<0.001						
2/9/2022			<0.001	<0.001	<0.001	<0.001	<0.001
2/10/2022		<0.001					
8/30/2022	<0.001		<0.001	<0.001	<0.001	<0.001	
8/31/2022		<0.001					<0.001
2/7/2023	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
2/8/2023		<0.001					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016							<0.001
6/2/2016				<0.001		0.00056 (J)	
6/7/2016	<0.001	<0.001					
7/25/2016				<0.001			<0.001
7/26/2016						0.0001 (J)	
7/27/2016	<0.001						
7/28/2016		<0.001					
9/14/2016			<0.001				<0.001
9/15/2016						0.0002 (J)	
9/19/2016	<0.001	<0.001		<0.001			
11/1/2016				<0.001		<0.001	<0.001
11/2/2016	0.0013 (J)						
11/3/2016		<0.001					
11/4/2016			<0.001				
12/15/2016			<0.001				
1/11/2017						<0.001	<0.001
1/13/2017	<0.001	<0.001					
1/16/2017			<0.001	<0.001			
2/21/2017				<0.001			
3/1/2017							<0.001
3/2/2017						0.0002 (J)	
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
4/28/2017			<0.001				
5/26/2017			<0.001				
6/28/2017			<0.001			<0.001	<0.001
6/29/2017	<0.001	<0.001					
6/30/2017				<0.001			
10/11/2017					0.0001 (J)		
11/20/2017					<0.001		
1/11/2018					0.0002 (J)		
2/20/2018					<0.001		
3/27/2018				<0.001			
3/28/2018			<0.001			<0.001	<0.001
3/29/2018	<0.001	<0.001					
4/3/2018					<0.001		
6/28/2018					<0.001		
8/7/2018					<0.001		
9/24/2018					<0.001		
2/26/2019				<0.001			
2/27/2019			<0.001			<0.001	<0.001
3/5/2019	<0.001	<0.001					
4/2/2019		<0.001					
4/3/2019	<0.001						
8/21/2019					<0.001		
9/24/2019		<0.001					
9/25/2019	<0.001						
10/9/2019					<0.001		
2/11/2020			<0.001				<0.001
2/12/2020	<0.001	<0.001		<0.001	<0.001	<0.001	
3/19/2020			<0.001	<0.001		0.00017 (J)	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
3/24/2020	0.00011 (J)	<0.001					
3/25/2020					5.1E-05 (J)		
9/23/2020			0.0011 (J)			<0.001	0.00015 (J)
9/24/2020	9.2E-05 (J)	4.6E-05 (J)		<0.001	<0.001		
2/9/2021	6.3E-05 (J)	<0.001					
2/10/2021			0.00015 (J)		<0.001	<0.001	<0.001
2/11/2021				4.6E-05 (J)			
3/1/2021				<0.001			
3/3/2021	4.5E-05 (J)		<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		
8/27/2021	<0.001		<0.001				<0.001
9/1/2021		<0.001					
2/8/2022					<0.001		
2/9/2022	<0.001	<0.001	<0.001			<0.001	<0.001
2/11/2022				<0.001			
8/30/2022		<0.001	<0.001				
8/31/2022	<0.001			<0.001	<0.001	<0.001	<0.001
2/7/2023	<0.001	<0.001	<0.001		<0.001		
2/8/2023				<0.001		<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016			<0.001	<0.001	<0.001
7/26/2016			<0.001	<0.001	<0.001
8/30/2016		<0.001			
9/14/2016			<0.001	<0.001	<0.001
11/2/2016			<0.001	<0.001	
11/4/2016					<0.001
11/14/2016		<0.001			
1/12/2017				<0.001	<0.001
1/13/2017			<0.001		
2/24/2017		<0.001			
3/6/2017			<0.001		
3/7/2017				0.0001 (J)	7E-05 (J)
5/1/2017			<0.001	<0.001	
5/2/2017					<0.001
5/8/2017		<0.001			
6/27/2017				<0.001	<0.001
6/29/2017			<0.001		
7/11/2017		<0.001			
10/10/2017		<0.001			
10/12/2017	9E-05 (J)				
11/20/2017	<0.001				
1/10/2018	<0.001				
2/19/2018	<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				
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				
9/24/2019				<0.001	9E-05 (J)
9/25/2019			<0.001		
10/9/2019	<0.001				
2/12/2020	<0.001		<0.001	<0.001	<0.001
3/24/2020	<0.001			5.4E-05 (J)	6.8E-05 (J)
3/25/2020			<0.001		
8/27/2020		<0.001			
9/22/2020		<0.001	<0.001	4.5E-05 (J)	4.2E-05 (J)
9/24/2020	3.8E-05 (J)				
2/8/2021				0.00013 (J)	3.7E-05 (J)
2/9/2021			<0.001		
2/10/2021	<0.001				
3/1/2021		<0.001			
3/2/2021				5.1E-05 (J)	9.2E-05 (J)
3/3/2021			<0.001		
3/4/2021	<0.001				
8/19/2021		<0.001			
8/26/2021			<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
9/3/2021	<0.001				
2/8/2022	<0.001	<0.001			
2/10/2022				<0.001	<0.001
2/11/2022			<0.001		
8/30/2022				<0.001	<0.001
8/31/2022	<0.001	<0.001	<0.001		
2/7/2023				<0.001	
2/8/2023	<0.001	<0.001			
2/9/2023			<0.001		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	<0.25	0.0024 (J)	<0.05	<0.03			
9/1/2016					<0.03	<0.05	<0.25
11/28/2016	<0.25		<0.05				
11/29/2016		<0.05					<0.25
11/30/2016				<0.03	<0.03		
12/1/2016						<0.05	
2/22/2017	<0.25		0.0036 (J)				
2/23/2017		<0.05		<0.03			0.0028 (J)
2/24/2017					<0.03	<0.05	
5/8/2017	0.0014 (J)						
5/9/2017		0.002 (J)		<0.03			
5/10/2017			0.0035 (J)		<0.03	<0.05	0.0054 (J)
7/17/2017	<0.25					<0.05	
7/18/2017		<0.05	0.0035 (J)	<0.03	<0.03		0.002 (J)
10/16/2017	0.0016 (J)					<0.05	
10/17/2017		0.0016 (J)	0.0035 (J)		<0.03		
10/18/2017				<0.03			0.0026 (J)
2/19/2018	<0.25						<0.25
2/20/2018			<0.05		<0.03		
2/21/2018		0.0014 (J)		<0.03		<0.05	
8/6/2018	<0.25						<0.25
8/7/2018		0.001 (J)		<0.03		<0.05	
8/8/2018			0.0031 (J)		<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)	
10/8/2019	0.0015 (J)						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	0.0017 (J)	0.00094 (J)		0.0012 (J)			0.0018 (J)
3/18/2020			0.0053 (J)		<0.03	0.0017 (J)	
8/26/2020	0.0032 (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	0.0029 (J)	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	0.0033 (J)			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)
8/20/2021	0.0028 (J)						
2/8/2022	0.0031 (J)	0.0018 (J)		0.00094 (J)	<0.03		0.0016 (J)
2/9/2022			0.0042 (J)			0.0018 (J)	
8/30/2022	0.0025 (J)	0.0019 (J)		<0.03	<0.03	0.0014 (J)	0.0013 (J)
8/31/2022			0.0042 (J)				
2/7/2023	0.0022 (J)	0.0023 (J)				0.0014 (J)	0.0017 (J)
2/8/2023			0.0038 (J)	<0.03	0.00098 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					0.015	<0.15	
6/2/2016	<0.03						
6/6/2016			0.0088	0.015			
6/7/2016		<0.03					<0.03
7/25/2016						0.002 (J)	
7/26/2016	<0.03				0.0135 (J)		
7/27/2016		<0.03	0.0087 (J)	0.0049 (J)			<0.03
9/13/2016					0.0112 (J)	<0.15	
9/15/2016	<0.03						
9/16/2016		<0.03		0.0031 (J)			
9/19/2016			0.0043 (J)				<0.03
11/1/2016					0.0163 (J)		
11/2/2016	<0.03						<0.03
11/3/2016		<0.03	<0.05	0.0021 (J)			
11/4/2016						<0.15	
1/10/2017	<0.03						
1/11/2017		0.0035 (J)	0.0052 (J)	0.0025 (J)	0.0166 (J)		
1/13/2017							<0.03
1/16/2017						0.0023 (J)	
3/1/2017			0.0053 (J)	0.0029 (J)			
3/2/2017		<0.03			0.0159 (J)	0.0025 (J)	
3/6/2017							<0.03
3/8/2017	<0.03						
4/26/2017	<0.03		0.0041 (J)	0.0019 (J)			<0.03
4/27/2017					0.0137 (J)	0.0027 (J)	
5/2/2017		<0.03					
6/27/2017					0.0094 (J)	0.0024 (J)	
6/28/2017			0.0039 (J)	0.0016 (J)			
6/29/2017		<0.03					<0.03
6/30/2017	<0.03						
3/27/2018	<0.03					0.0023 (J)	
3/28/2018		<0.03	0.0041 (J)	0.0024 (J)			
3/29/2018					0.0078 (J)		<0.03
6/5/2018					0.0079 (J)		
6/6/2018						0.0024 (J)	<0.03
6/7/2018			0.0032 (J)				
6/8/2018	<0.03						
6/11/2018		<0.03		0.0014 (J)			
9/25/2018		<0.03	0.0036 (J)	0.0016 (J)			<0.03
10/1/2018	<0.03				0.0053 (J)	0.0023 (J)	
2/26/2019	<0.03						
2/27/2019					0.0093 (J)	0.0023 (J)	
3/5/2019		<0.03		0.0031 (J)			<0.03
3/6/2019			0.0033 (J)				
3/28/2019					0.013 (J)	0.0022 (J)	
3/29/2019	<0.03						
4/2/2019		<0.03					
4/3/2019			0.0035 (J)	0.0028 (J)			<0.03
9/24/2019					0.0046 (J)	0.0023 (J)	
9/25/2019	<0.03	<0.03					<0.03
9/26/2019			0.0032 (J)	0.0029 (J)			
2/10/2020					0.011 (J)	0.0023 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
2/11/2020		<0.03	0.0033 (J)	0.005 (J)			
2/12/2020	<0.03						<0.03
3/18/2020	<0.03					0.0024 (J)	
3/19/2020					0.013 (J)		
3/24/2020		0.0034 (J)	0.0033 (J)	0.0035 (J)			<0.03
9/23/2020		<0.03	0.003 (J)	0.0022 (J)	0.014 (J)	0.0024 (J)	
9/24/2020							<0.03
9/25/2020	<0.03						
2/9/2021			0.0031 (J)	0.0019 (J)			<0.03
2/10/2021	<0.03						
2/12/2021					0.01 (J)	0.0025 (J)	
3/2/2021	<0.03						
3/3/2021		<0.03	0.0034 (J)	0.0021 (J)	0.012 (J)	0.0025 (J)	<0.03
8/19/2021	<0.03				0.013 (J)	0.0023 (J)	
8/26/2021				0.0019 (J)			
8/27/2021		<0.03	0.0032 (J)				<0.03
2/9/2022		<0.03	0.0032 (J)	0.0015 (J)	0.013 (J)	0.0027 (J)	0.00082 (J)
2/10/2022	<0.03						
8/30/2022		<0.03	0.0036 (J)	0.0014 (J)	0.013 (J)		
8/31/2022	<0.03					<0.15	<0.03
2/7/2023		<0.03	0.003 (J)	0.0012 (J)	0.006 (J)	0.0029 (J)	<0.03
2/8/2023	<0.03						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						0.01	
6/2/2016			<0.05		0.018		
6/7/2016	0.0055						
7/25/2016			<0.05			0.0132 (J)	
7/26/2016					0.0221 (J)		
7/28/2016	0.0045 (J)						
9/14/2016		0.004 (J)				0.012 (J)	
9/15/2016					0.0197 (J)		
9/19/2016	0.0054 (J)		<0.05				
11/1/2016			<0.05		0.0194 (J)	0.0115 (J)	
11/3/2016	<0.05						
11/4/2016		<0.25					
12/15/2016		0.0026 (J)					
1/11/2017					0.0177 (J)	0.0085 (J)	
1/13/2017	0.0062 (J)						
1/16/2017		0.0023 (J)	<0.05				
2/21/2017			<0.05				
3/1/2017						0.0114 (J)	
3/2/2017					0.0185 (J)		
3/3/2017		0.0013 (J)					
3/6/2017	0.0059 (J)						
4/26/2017	0.0054 (J)		<0.05		0.0183 (J)	0.0092 (J)	
4/28/2017		0.0031 (J)					
5/26/2017		0.0038 (J)					
6/28/2017		0.0026 (J)			0.0173 (J)	0.0085 (J)	
6/29/2017	0.0047 (J)						
6/30/2017			<0.05				
10/11/2017				0.0018 (J)			
10/12/2017							<0.03
11/20/2017				0.0018 (J)			<0.03
1/10/2018							<0.03
1/11/2018				0.0019 (J)			
2/19/2018							<0.03
2/20/2018				<0.05			
3/27/2018			0.0011 (J)				
3/28/2018		0.0025 (J)			0.02 (J)	0.013 (J)	
3/29/2018	0.0062 (J)						
4/3/2018				0.0022 (J)			<0.03
6/5/2018	0.0061 (J)						
6/7/2018		0.0017 (J)			0.02 (J)		
6/8/2018						0.012 (J)	
6/11/2018			0.0012 (J)				
6/28/2018				0.0026 (J)			<0.03
8/7/2018				0.0024 (J)			<0.03
9/24/2018				0.0022 (J)			<0.03
9/25/2018	0.0062 (J)						
10/1/2018		<0.25			0.02 (J)	0.011 (J)	
10/2/2018			<0.05				
2/26/2019			0.0011 (J)				
2/27/2019		0.0011 (J)			0.021 (J)	0.014 (J)	
3/5/2019	0.0053 (J)						
3/29/2019		0.0016 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
4/1/2019			0.001 (J)		0.021 (J)	0.013 (J)	
4/2/2019	0.0051 (J)						
8/21/2019				0.0035 (J)			<0.03
9/24/2019	0.0068 (J)	0.0011 (J)					
9/25/2019			0.0011 (J)		0.02 (J)	0.01 (J)	
10/9/2019				0.0036 (J)			<0.03
2/11/2020		0.0012 (J)				0.013 (J)	
2/12/2020	0.0065 (J)		0.0013 (J)	0.0041 (J)	0.019 (J)		<0.03
3/19/2020		0.0022 (J)	0.0012 (J)		0.023 (J)	0.014 (J)	
3/24/2020	0.0064 (J)						<0.03
3/25/2020				0.0049 (J)			
9/23/2020		0.0016 (J)			0.023 (J)	0.013 (J)	
9/24/2020	0.0069 (J)		0.0011 (J)	0.0054 (J)			<0.03
2/9/2021	0.006 (J)						
2/10/2021		0.0039 (J)		0.0071 (J)	0.023 (J)	0.015 (J)	<0.03
2/11/2021			0.0012 (J)				
3/1/2021			0.0011 (J)				
3/3/2021		0.0016 (J)			0.024 (J)	0.017 (J)	
3/4/2021	0.0062 (J)			0.0084 (J)			<0.03
8/19/2021			0.0012 (J)		0.023 (J)		
8/26/2021				0.0082 (J)			
8/27/2021		0.0058 (J)				0.026 (J)	
9/1/2021	0.0057 (J)						
9/3/2021							<0.03
2/8/2022				0.008 (J)			0.00076 (J)
2/9/2022	0.0061 (J)	0.006 (J)			0.026 (J)	0.021 (J)	
2/11/2022			0.0014 (J)				
8/30/2022	0.0079 (J)	0.0044 (J)					
8/31/2022			0.0012 (J)	0.0065 (J)	0.021 (J)	0.022 (J)	<0.03
2/7/2023	0.0059 (J)	0.0047 (J)		0.0065 (J)			
2/8/2023			0.0011 (J)		0.023 (J)	0.018 (J)	0.00074 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		0.013	0.0049 (J)	<0.05
7/26/2016		0.0123 (J)	0.0063 (J)	0.0027 (J)
8/30/2016	0.0061 (J)			
9/14/2016		0.0137 (J)	0.0058 (J)	0.0029 (J)
11/2/2016		0.0136 (J)	0.0053 (J)	
11/4/2016				<0.05
11/14/2016	0.0064 (J)			
1/12/2017			0.0054 (J)	0.0032 (J)
1/13/2017		0.0121 (J)		
2/24/2017	0.0049 (J)			
3/6/2017		0.0143 (J)		
3/7/2017			0.0056 (J)	0.0035 (J)
5/1/2017		0.0132 (J)	0.0031 (J)	
5/2/2017				0.0031 (J)
5/8/2017	0.0053 (J)			
6/27/2017			0.0018 (J)	0.0029 (J)
6/29/2017		0.0145 (J)		
7/11/2017	0.0051 (J)			
10/10/2017	0.0043 (J)			
3/29/2018		0.014 (J)	0.0058 (J)	0.0034 (J)
4/2/2018	0.0045 (J)			
6/6/2018			0.0068 (J)	
6/7/2018		0.013 (J)		0.0032 (J)
9/19/2018	0.0043 (J)			
9/26/2018		0.014 (J)	0.0065 (J)	0.0032 (J)
3/4/2019		0.015 (J)	0.0065 (J)	0.0032 (J)
4/3/2019		0.014 (J)	0.007 (J)	0.0035 (J)
8/20/2019	0.0036 (J)			
9/24/2019			0.0065 (J)	0.0031 (J)
9/25/2019		0.014 (J)		
10/8/2019	0.0036 (J)			
2/12/2020		0.011 (J)	0.0066 (J)	0.0032 (J)
3/17/2020	0.0046 (J)			
3/24/2020			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)
2/8/2021			0.0063 (J)	0.0032 (J)
2/9/2021		0.011 (J)		
3/1/2021	0.0037 (J)			
3/2/2021			0.0018 (J)	0.0031 (J)
3/3/2021		0.012 (J)		
8/19/2021	0.0038 (J)			
8/26/2021		0.0094 (J)	0.0075 (J)	0.0032 (J)
2/8/2022	0.0039 (J)			
2/10/2022			0.0076 (J)	0.0036 (J)
2/11/2022		0.012 (J)		
8/30/2022			0.0068 (J)	0.0035 (J)
8/31/2022	0.0037 (J)	0.013 (J)		
2/7/2023			0.0059 (J)	
2/8/2023	0.0037 (J)			
2/9/2023		0.014 (J)		0.0036 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/2/2023 10:14 AM

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	<0.0002						
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				
8/31/2016	<0.0002	<0.0002	<0.0002	<0.0002			
9/1/2016					<0.0002	<0.0002	<0.0002
11/28/2016	<0.0002		<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		<0.0002				
2/23/2017		<0.0002		<0.0002			<0.0002
2/24/2017					<0.0002	<0.0002	
5/8/2017	<0.0002						
5/9/2017		<0.0002		<0.0002			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
5/10/2017			<0.0002		<0.0002	<0.0002	<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	
8/6/2018	<0.0002						<0.0002
8/7/2018		<0.0002		<0.0002		<0.0002	
8/8/2018			<0.0002		<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)	
6/12/2019	<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	
10/8/2019	<0.0002						<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					<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		
9/23/2020						<0.0002	<0.0002
3/1/2021		<0.0002	<0.0002		<0.0002		
3/2/2021	<0.0002			<0.0002		<0.0002	
3/3/2021							<0.0002
8/18/2021		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/20/2021	<0.0002						
2/8/2022	<0.0002	<0.0002		<0.0002	<0.0002		<0.0002
2/9/2022			<0.0002			<0.0002	
8/30/2022	<0.0002	<0.0002		<0.0002	0.00014 (J)	<0.0002	<0.0002
8/31/2022			<0.0002				
2/7/2023	0.00013 (J)	<0.0002				<0.0002	<0.0002
2/8/2023			<0.0002	<0.0002	0.0002 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					<0.0002	<0.0002	
6/2/2016	<0.0002						
6/6/2016			<0.0002	<0.0002			
6/7/2016		9.5E-05 (J)					9.6E-05 (J)
7/25/2016						<0.0002	
7/26/2016	<0.0002				<0.0002		
7/27/2016		<0.0002	<0.0002	<0.0002			<0.0002
9/13/2016					<0.0002	<0.0002	
9/15/2016	<0.0002						
9/16/2016		<0.0002		<0.0002			
9/19/2016			<0.0002				<0.0002
11/1/2016					<0.0002		
11/2/2016	<0.0002						<0.0002
11/3/2016		<0.0002	<0.0002	<0.0002			
11/4/2016						<0.0002	
1/10/2017	<0.0002						
1/11/2017		<0.0002	<0.0002	<0.0002	<0.0002		
1/13/2017							<0.0002
1/16/2017						<0.0002	
3/1/2017			<0.0002	<0.0002			
3/2/2017		<0.0002			<0.0002	<0.0002	
3/6/2017							<0.0002
3/8/2017	<0.0002						
4/26/2017	<0.0002		<0.0002	<0.0002			<0.0002
4/27/2017					<0.0002	<0.0002	
5/2/2017		<0.0002					
6/27/2017					<0.0002	<0.0002	
6/28/2017			<0.0002	<0.0002			
6/29/2017		<0.0002					<0.0002
6/30/2017	<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
9/25/2018		<0.0002	<0.0002	<0.0002			<0.0002
2/26/2019	6.1E-05 (J)						
2/27/2019					5.1E-05 (J)	5.4E-05 (J)	
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						
9/24/2019					<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
2/9/2021			<0.0002	<0.0002			<0.0002
2/10/2021	<0.0002						
2/12/2021					<0.0002	<0.0002	
3/3/2021		<0.0002	<0.0002	<0.0002			<0.0002
8/26/2021				<0.0002			
8/27/2021		<0.0002	<0.0002				<0.0002
2/9/2022		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
2/10/2022	<0.0002						
8/30/2022		<0.0002	<0.0002	<0.0002	<0.0002		
8/31/2022	<0.0002					<0.0002	<0.0002
2/7/2023		0.00018 (J)	0.00013 (J)	0.00017 (J)	<0.0002	<0.0002	0.00015 (J)
2/8/2023	<0.0002						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						<0.0002	
6/2/2016			<0.0002		<0.0002		
6/7/2016	9.6E-05 (J)						
7/25/2016			<0.0002			<0.0002	
7/26/2016					<0.0002		
7/28/2016	<0.0002						
9/14/2016		<0.0002				<0.0002	
9/15/2016					<0.0002		
9/19/2016	<0.0002		<0.0002				
11/1/2016			<0.0002		<0.0002	<0.0002	
11/3/2016	<0.0002						
11/4/2016		<0.0002					
12/15/2016		<0.0002					
1/11/2017					<0.0002	<0.0002	
1/13/2017	<0.0002						
1/16/2017		<0.0002	<0.0002				
2/21/2017			<0.0002				
3/1/2017						<0.0002	
3/2/2017					<0.0002		
3/3/2017		<0.0002					
3/6/2017	<0.0002						
4/26/2017	<0.0002		<0.0002		<0.0002	<0.0002	
4/28/2017		<0.0002					
5/26/2017		<0.0002					
6/28/2017		<0.0002			<0.0002	<0.0002	
6/29/2017	<0.0002						
6/30/2017			<0.0002				
10/11/2017				<0.0002			
10/12/2017							<0.0002
11/20/2017				7E-05 (J)			8E-05 (J)
1/10/2018							<0.0002
1/11/2018				<0.0002			
2/19/2018							<0.0002
2/20/2018				<0.0002			
3/27/2018			<0.0002				
3/28/2018		<0.0002			<0.0002	<0.0002	
3/29/2018	<0.0002						
4/3/2018				<0.0002			<0.0002
6/28/2018				<0.0002			3.6E-05 (J)
8/7/2018				<0.0002			<0.0002
9/24/2018				<0.0002			<0.0002
9/25/2018	<0.0002						
2/26/2019			6.8E-05 (J)				
2/27/2019		<0.0002			6.2E-05 (J)	6.1E-05 (J)	
3/5/2019	<0.0002						
3/29/2019		<0.0002					
4/1/2019			8.2E-05 (J)		9.6E-05 (J)	8.4E-05 (J)	
8/21/2019				<0.0002			<0.0002
9/24/2019		<0.0002					
9/25/2019			<0.0002		<0.0002	<0.0002	
2/11/2020		<0.0002				<0.0002	
2/12/2020	<0.0002		<0.0002	<0.0002	<0.0002		<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
2/9/2021	<0.0002						
2/10/2021		<0.0002		<0.0002	<0.0002	<0.0002	<0.0002
2/11/2021			<0.0002				
3/4/2021	<0.0002			<0.0002			<0.0002
8/26/2021				<0.0002			
9/1/2021	<0.0002						
9/3/2021							0.00012 (J)
2/8/2022				<0.0002			0.00013 (J)
2/9/2022	<0.0002	<0.0002			<0.0002	<0.0002	
2/11/2022			<0.0002				
8/30/2022	<0.0002	<0.0002					
8/31/2022			<0.0002	<0.0002	<0.0002	<0.0002	0.00064
2/7/2023	0.00017 (J)	<0.0002		<0.0002			
2/8/2023			<0.0002		<0.0002	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		<0.0002	<0.0002	<0.0002
7/26/2016		<0.0002	<0.0002	<0.0002
8/30/2016	<0.0002			
9/14/2016		<0.0002	<0.0002	<0.0002
11/2/2016		<0.0002	<0.0002	
11/4/2016				<0.0002
11/14/2016	<0.0002			
1/12/2017			<0.0002	<0.0002
1/13/2017		<0.0002		
2/24/2017	<0.0002			
3/6/2017		<0.0002		
3/7/2017			<0.0002	<0.0002
5/1/2017		<0.0002	<0.0002	
5/2/2017				<0.0002
5/8/2017	<0.0002			
6/27/2017			<0.0002	<0.0002
6/29/2017		<0.0002		
7/11/2017	<0.0002			
10/10/2017	<0.0002			
3/29/2018		<0.0002	<0.0002	<0.0002
4/2/2018	<0.0002			
9/19/2018	5.3E-05 (J)			
9/26/2018		<0.0002	<0.0002	<0.0002
3/4/2019		<0.0002	<0.0002	<0.0002
8/20/2019	<0.0002			
2/12/2020		<0.0002	<0.0002	<0.0002
8/27/2020	<0.0002			
2/8/2021			<0.0002	<0.0002
2/9/2021		<0.0002		
3/2/2021			<0.0002	<0.0002
3/3/2021		<0.0002		
8/19/2021	<0.0002			
8/26/2021		<0.0002	<0.0002	<0.0002
2/8/2022	<0.0002			
2/10/2022			<0.0002	<0.0002
2/11/2022		<0.0002		
8/30/2022			<0.0002	<0.0002
8/31/2022	<0.0002	<0.0002		
2/7/2023			<0.0002	
2/8/2023	<0.0002			
2/9/2023		<0.0002		<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	<0.01	<0.01	<0.01	<0.01			
9/1/2016					<0.01	<0.01	<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	
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
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	
8/6/2018	<0.01						<0.01
8/7/2018		<0.01		<0.01		<0.01	
8/8/2018			<0.01		<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	
8/26/2020	<0.01						
8/27/2020		<0.01				<0.01	<0.01
8/28/2020			<0.01	<0.01	<0.01		
8/18/2021		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
8/20/2021	<0.01						
2/8/2022	<0.01	<0.01		<0.01	<0.01		<0.01
2/9/2022			<0.01			<0.01	
8/30/2022	<0.01	<0.01		<0.01	<0.01	<0.01	<0.01
8/31/2022			<0.01				
2/7/2023	<0.01	<0.01				<0.01	<0.01
2/8/2023			<0.01	<0.01	<0.01		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (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)	
7/26/2016	<0.01				0.0132		
7/27/2016		<0.01	<0.01	<0.01			<0.01
9/13/2016					0.0127	0.01 (J)	
9/15/2016	<0.01						
9/16/2016		<0.01		<0.01			
9/19/2016			<0.01				<0.01
11/1/2016					0.0092 (J)		
11/2/2016	<0.01						<0.01
11/3/2016		<0.01	<0.01	<0.01			
11/4/2016						0.01	
1/10/2017	<0.01						
1/11/2017		<0.01	<0.01	<0.01	0.0093 (J)		
1/13/2017							<0.01
1/16/2017						0.0086 (J)	
3/1/2017			<0.01	<0.01			
3/2/2017		<0.01			0.0099 (J)	0.01	
3/6/2017							<0.01
3/8/2017	<0.01						
4/26/2017	<0.01		<0.01	<0.01			<0.01
4/27/2017					0.0103	0.0101	
5/2/2017		<0.01					
6/27/2017					0.0097 (J)	0.0093 (J)	
6/28/2017			<0.01	<0.01			
6/29/2017		<0.01					<0.01
6/30/2017	<0.01						
3/27/2018	<0.01					0.0074 (J)	
3/28/2018		<0.01	<0.01	<0.01			
3/29/2018					0.0076 (J)		<0.01
6/5/2018					0.0092 (J)		
6/6/2018						0.0073 (J)	
6/8/2018	<0.01						
10/1/2018	<0.01				0.0085 (J)	0.0076 (J)	
2/26/2019	<0.01						
2/27/2019					0.0087 (J)	0.0078 (J)	
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	<0.01						
9/24/2019					0.0072 (J)	0.0074 (J)	
9/25/2019	<0.01						
2/10/2020					0.0087 (J)	0.0062 (J)	
2/11/2020		<0.01	<0.01	<0.01			
2/12/2020	<0.01						<0.01
3/18/2020	<0.01					0.0056 (J)	
3/19/2020					0.0088 (J)		
3/24/2020		<0.01	<0.01	<0.01			<0.01
9/23/2020		<0.01	<0.01	<0.01	0.008 (J)	0.0059 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/24/2020							<0.01
9/25/2020	<0.01						
2/9/2021			<0.01	<0.01			<0.01
2/10/2021	<0.01						
2/12/2021					0.008 (J)	0.0056 (J)	
3/2/2021	<0.01						
3/3/2021		<0.01	<0.01	<0.01	0.0088 (J)	0.0049 (J)	<0.01
8/19/2021	<0.01				0.0083 (J)	0.005 (J)	
8/26/2021				<0.01			
8/27/2021		<0.01	<0.01				<0.01
2/9/2022		<0.01	<0.01	<0.01	0.0093 (J)	0.0055 (J)	<0.01
2/10/2022	<0.01						
8/30/2022		<0.01	<0.01	<0.01	0.0094 (J)		
8/31/2022	<0.01					0.0055 (J)	<0.01
2/7/2023		<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2/8/2023	<0.01						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						0.0055 (J)	
6/2/2016			<0.01		0.0093 (J)		
6/7/2016	<0.01						
7/25/2016			<0.01			0.0037 (J)	
7/26/2016					0.0113		
7/28/2016	<0.01						
9/14/2016		0.0039 (J)				0.0034 (J)	
9/15/2016					0.0112		
9/19/2016	<0.01		<0.01				
11/1/2016			<0.01		0.0099 (J)	0.0025 (J)	
11/3/2016	<0.01						
11/4/2016		0.0077 (J)					
12/15/2016		0.0066 (J)					
1/11/2017					0.0093 (J)	0.0033 (J)	
1/13/2017	<0.01						
1/16/2017		0.0056 (J)	<0.01				
2/21/2017			<0.01				
3/1/2017						0.0044 (J)	
3/2/2017					0.0103		
3/3/2017		0.0049 (J)					
3/6/2017	0.0007 (J)						
4/26/2017	0.0008 (J)		<0.01		0.01	0.0075 (J)	
4/28/2017		0.004 (J)					
5/26/2017		0.0029 (J)					
6/28/2017		0.0036 (J)			0.0102	0.008 (J)	
6/29/2017	<0.01						
6/30/2017			<0.01				
10/11/2017				0.0094 (J)			
10/12/2017							<0.01
11/20/2017				0.0081 (J)			<0.01
1/10/2018							<0.01
1/11/2018				0.0074 (J)			
2/19/2018							<0.01
2/20/2018				<0.01			
3/27/2018			<0.01				
3/28/2018		0.0038 (J)			0.011	0.0025 (J)	
3/29/2018	<0.01						
4/3/2018				0.006 (J)			<0.01
6/7/2018		0.004 (J)			0.011		
6/8/2018						0.0041 (J)	
6/11/2018			<0.01				
6/28/2018				0.005 (J)			<0.01
8/7/2018				0.0045 (J)			<0.01
9/24/2018				0.0035 (J)			<0.01
10/1/2018		0.0042 (J)			0.012	0.0037 (J)	
10/2/2018			<0.01				
2/26/2019			<0.01				
2/27/2019		0.0041 (J)			0.011	0.0027 (J)	
3/5/2019	<0.01						
3/29/2019		0.0041 (J)					
4/1/2019			<0.01		0.012	0.0021 (J)	
8/21/2019				0.0021 (J)			<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
9/24/2019		0.0054 (J)					
9/25/2019			<0.01		0.012	0.0087 (J)	
10/9/2019				0.0018 (J)			<0.01
2/11/2020		0.0057 (J)				0.003 (J)	
2/12/2020	<0.01		<0.01	0.0025 (J)	0.013		<0.01
3/19/2020		0.0046 (J)	<0.01		0.013	0.0043 (J)	
3/24/2020	<0.01						<0.01
3/25/2020				0.002 (J)			
9/23/2020		0.0071 (J)			0.012	0.01	
9/24/2020	<0.01		<0.01	0.0016 (J)			<0.01
2/9/2021	<0.01						
2/10/2021		0.0041 (J)		0.0013 (J)	0.014	0.0038 (J)	<0.01
2/11/2021			<0.01				
3/1/2021			<0.01				
3/3/2021		0.0074 (J)			0.013	0.0036 (J)	
3/4/2021	<0.01			0.0014 (J)			<0.01
8/19/2021			<0.01		0.013		
8/26/2021				0.0027 (J)			
8/27/2021		0.0048 (J)				0.0099 (J)	
9/1/2021	<0.01						
9/3/2021							<0.01
2/8/2022				0.0035 (J)			<0.01
2/9/2022	<0.01	0.0057 (J)			0.013	0.0087 (J)	
2/11/2022			<0.01				
8/30/2022	<0.01	0.0068 (J)					
8/31/2022			<0.01	0.0036 (J)	0.011	0.0068 (J)	<0.01
2/7/2023	<0.01	0.0061 (J)		0.0045 (J)			
2/8/2023			<0.01		0.012	0.0065 (J)	<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		<0.01	0.0035 (J)	<0.01
7/26/2016		<0.01	0.0042 (J)	<0.01
8/30/2016	<0.01			
9/14/2016		<0.01	0.0041 (J)	<0.01
11/2/2016		<0.01	0.0039 (J)	
11/4/2016				<0.01
11/14/2016	<0.01			
1/12/2017			0.0041 (J)	<0.01
1/13/2017		<0.01		
2/24/2017	<0.01			
3/6/2017		<0.01		
3/7/2017			0.0047 (J)	<0.01
5/1/2017		<0.01	0.0045 (J)	
5/2/2017				<0.01
5/8/2017	<0.01			
6/27/2017			0.004 (J)	<0.01
6/29/2017		<0.01		
7/11/2017	<0.01			
10/10/2017	<0.01			
3/29/2018		<0.01	<0.01	<0.01
4/2/2018	<0.01			
9/19/2018	<0.01			
3/4/2019		<0.01	<0.01	<0.01
8/20/2019	<0.01			
10/8/2019	<0.01			
2/12/2020		<0.01	0.0011 (J)	<0.01
3/17/2020	<0.01			
3/24/2020			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
2/8/2021			0.0011 (J)	<0.01
2/9/2021		<0.01		
3/1/2021	<0.01			
3/2/2021			<0.01	<0.01
3/3/2021		<0.01		
8/19/2021	<0.01			
8/26/2021		<0.01	0.001 (J)	<0.01
2/8/2022	<0.01			
2/10/2022			0.00096 (J)	<0.01
2/11/2022		<0.01		
8/30/2022			0.00089 (J)	<0.01
8/31/2022	<0.01	<0.01		
2/7/2023			0.00095 (J)	
2/8/2023	<0.01			
2/9/2023		<0.01		<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Nickel (mg/L) Analysis Run 5/2/2023 10:14 AM

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
9/9/1998	<0.004						
9/20/1999	<0.004						
9/12/2001	<0.004						
9/3/2002	<0.004						
7/29/2003	0.0061						
12/5/2003	<0.004						
9/22/2004	<0.004						
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					
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					
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				
3/4/2012						<0.005	
3/5/2012		0.0053	0.0035		<0.005		<0.005
3/6/2012				<0.005			
9/5/2012			0.0027		<0.005		<0.005
9/10/2012		0.0074				<0.005	
9/11/2012				<0.005			
2/5/2013			0.0026				<0.005
2/6/2013		0.0077		<0.005	<0.005	<0.005	
8/12/2013		0.016					
8/13/2013			<0.01	0.003	0.0032		
8/14/2013						<0.005	0.0032
2/4/2014			<0.01	0.0026		0.0033	
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)			
2/2/2015			0.0023 (J)	<0.005		<0.005	
2/3/2015					<0.005		0.0013 (J)
2/4/2015		0.0055					
8/3/2015		0.0055			<0.005 (D)	<0.005 (D)	0.0039 (D)
8/4/2015			<0.01 (D)	<0.005			
2/16/2016		0.0039	<0.01		<0.005	<0.005	0.0036
2/17/2016				<0.005			
2/22/2017		0.0051 (J)		0.0009 (J)			
2/23/2017			0.0026 (J)		<0.005		
2/24/2017						0.0021 (J)	0.0019 (J)
2/19/2018		<0.005					
2/20/2018				<0.005		<0.005	
2/21/2018			0.001 (J)		<0.005		0.0013 (J)
8/6/2018		0.003 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Nickel (mg/L) Analysis Run 5/2/2023 10:14 AM

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
8/7/2018			<0.01		<0.005		0.0019 (J)
8/8/2018				<0.005		0.0012 (J)	
2/25/2019		0.0026 (J)					
2/26/2019			<0.01	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)
10/8/2019		0.0051 (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)		
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)
3/1/2021			0.0024 (J)	<0.005		0.0021 (J)	
3/2/2021		0.034			<0.005		0.0014 (J)
8/18/2021			0.0028 (J)	<0.005	<0.005	0.0026 (J)	0.0016 (J)
8/20/2021		0.014					
2/8/2022		0.017	0.0032 (J)		<0.005	0.0017 (J)	
2/9/2022				<0.005			0.0014 (J)
8/30/2022		0.015	0.0027 (J)		<0.005	0.0021 (J)	0.00097 (J)
8/31/2022				<0.005			
2/7/2023		0.0096	0.0028 (J)				<0.005
2/8/2023				<0.005	<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Nickel (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	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)
2/8/2022	0.001 (J)
8/30/2022	<0.005
2/7/2023	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH (S.U.) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/27/2008	6.53						
3/3/2009	6.35						
11/18/2009	6.47						5.82
1/5/2010							5.8
3/3/2010	6.53						6.15
3/10/2011	5.83						6.05
3/11/2011			5.52		6.16		
9/7/2011			4.35	4.31	5.07	5.64	
9/8/2011	5.69	4.49					5.31
3/5/2012	6.27						6.23
3/6/2012			6.37				
9/5/2012							5.83
9/10/2012	6.23						
9/11/2012			5.69				
2/5/2013							6.79
2/6/2013	7.56		6.8				
8/12/2013	6.68						
8/13/2013			5.51				6.48
2/4/2014			5.74				6.14
2/5/2014	6.32						
8/3/2015	6.13 (D)						
2/16/2016	5.64						5.2
2/17/2016			5.59				
11/28/2016	6.23		5.47				
11/29/2016		5.37					5.92
11/30/2016				5.13	5.61		
12/1/2016						5.24	
2/22/2017	6.21		5.48				
2/23/2017		5.5		5.28			5.97
2/24/2017					5.47	5.37	
5/8/2017	6.12						
5/9/2017		5.41		5.12			
5/10/2017			5.6		5.68	5.2	5.82
7/17/2017	6.03					5.21	
7/18/2017		5.5	5.49	5.21	5.59		5.76
10/16/2017	6.12					5.16	
10/17/2017		5.42	5.45		5.52		
10/18/2017				5.17			5.76
2/19/2018	6.13						5.86
2/20/2018			5.52		5.51		
2/21/2018		5.39		5.15		5.18	
8/6/2018	6.01						5.84
8/7/2018		5.14		4.95		5.06	
8/8/2018			5.15		5.33		
2/25/2019	6.51						5.91
2/26/2019		5.52	5.4	5.22	5.42	5.08	
6/12/2019	6.3		5.38		5.54		
6/13/2019		5.55		5.08		5.01	5.84
8/19/2019	6.23				5.56		
8/20/2019		5.33	5.33				5.85
8/21/2019				5.32		4.88	
10/8/2019	6.28						5.91

Time Series

Constituent: pH (S.U.) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
10/9/2019		5.37	5.39			4.89	
10/10/2019				5.4	5.55		
1/21/2020						4.99	
3/17/2020	6.14	5.7		5.03			5.97
3/18/2020			5.38		5.58	4.88	
5/6/2020	6.24	6.8					5.99
5/7/2020			5.43	5.05	5.52	5.2	
8/26/2020	5.67						
8/27/2020		5.39				5.17	5.77
8/28/2020			5.45	5.2	5.38		
9/22/2020	5.78	5.25	5.34	5.11	5.43		
9/23/2020						5.04	5.81
3/1/2021		5.25	5.17		5.62		
3/2/2021	5.42 (D)			4.82		4.63	
3/3/2021							5.78
8/18/2021		5.08	4.96	4.73	5.46	4.76	5.82
8/20/2021	5.86						
2/8/2022	5.83	5.16		5.1	5.67		5.89
2/9/2022			5.2			4.82	
8/30/2022	5.39	5.07		4.85	5.52	4.86	5.82
8/31/2022			5.23				
2/7/2023	5.94	5.16				4.62	4.81
2/8/2023			4.96	5.21	5.64		

Time Series

Constituent: pH (S.U.) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					7.46	6.33	
6/2/2016	5.46						
6/6/2016			6.17	5.71			
6/7/2016		5.62					5.77
7/25/2016						6.21	
7/26/2016	5.45				7.43		
7/27/2016		5.59	6.14	5.46			5.79
9/13/2016					7.44	6.16	
9/15/2016	5.45						
9/16/2016		5.58					
9/19/2016			6.04	5.59			5.73
11/1/2016					7.24		
11/2/2016	5.41						5.67
11/3/2016		5.59	5.97	5.39			
11/4/2016						6.29	
1/10/2017	5.37						
1/11/2017		5.59	6.05	5.48	7.3		
1/13/2017							5.79
1/16/2017						6.29	
3/1/2017			5.94	5.41			
3/2/2017		5.54			7.23	6.28	
3/6/2017							5.63
3/8/2017	5.41						
4/26/2017	5.02		5.99	5.4			5.66
4/27/2017					6.99	6.09	
5/2/2017		5.47					
6/27/2017					6.87	6.21	
6/28/2017			6	5.36			
6/29/2017		5.56					5.85
6/30/2017	5.39						
10/3/2017					6.81	5.98	
10/4/2017		5.57		5.32			5.83
10/5/2017	5.49		6.11				
3/27/2018	5.47					6.25	
3/28/2018		5.59	6.1	5.34			
3/29/2018					7.38		5.93
6/5/2018					7.16		
6/6/2018						6.17	5.86
6/7/2018			5.98				
6/8/2018	5.45						
6/11/2018		5.58		5.28			
9/25/2018		5.59	5.81	4.86			5.84
10/1/2018	5.39				6.8	5.9	
2/26/2019	5.46						
2/27/2019					6.84	5.8	
3/5/2019		5.48		5.26			6.07
3/6/2019			5.99				
3/28/2019					6.99	6.15	
3/29/2019	5.34						
4/2/2019		5.74					
4/3/2019			6.29	5.47			5.71
9/24/2019					7.07	6.23	

Time Series

Constituent: pH (S.U.) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/25/2019	5.19	5.49					5.86
9/26/2019			6.04	5.2			
2/10/2020					7.2	6.1	
2/11/2020		5.58	6.07	5.3			
2/12/2020	5.48						6
3/18/2020	5.38					6.19	
3/19/2020					7.03		
3/24/2020		5.57	5.98	5.33			5.86
9/23/2020		5.58	6.01	5.29	7.15	6.01	
9/24/2020							5.8
9/25/2020	5.44						
2/9/2021			6.12	5.43			5.86
2/10/2021	5.35						
2/12/2021					7.14	6.21	
3/2/2021	5.49						
3/3/2021		5.52	5.89	5.31	7.2	5.38	5.89
8/19/2021	7.32				6.32	6.38	
8/26/2021				4.4			
8/27/2021		5.27	5.4				5.57
2/9/2022		5.53	5.98	5.28	7.12	6.24	5.91
2/10/2022	4.5						
8/30/2022		4.68	5.82	5.18	7.2		
8/31/2022	5.15					5.64	5.38
2/7/2023		5.47	6	5.03	7.86	6.53	5.63
2/8/2023	5.39						

Time Series

Constituent: pH (S.U.) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						7.72	
6/2/2016			5.75		7.84		
6/7/2016	6.1						
7/25/2016			5.82			7.74	
7/26/2016					7.88		
7/28/2016	6.12						
9/13/2016		7.41					
9/14/2016						7.65	
9/15/2016					7.74		
9/19/2016	6.12		5.78 (D)				
11/1/2016			5.62		7.75	7.7	
11/3/2016	6.07						
11/4/2016		7.12					
12/15/2016		7.24					
1/11/2017					7.66	7.53	
1/13/2017	6.41						
1/16/2017		7.24	5.72				
2/21/2017			5.67				
3/1/2017						7.42	
3/2/2017					7.68		
3/3/2017		7.22					
3/6/2017	6.34						
4/26/2017	6.32		5.56		7.45	7.4	
4/28/2017		7.21					
5/26/2017		7.13					
6/28/2017		7.06			7.65	7.5	
6/29/2017	6.47						
6/30/2017			5.72				
10/3/2017	6.56	6.99					
10/4/2017			5.87		7.49	7.45	
10/11/2017				6.4			
10/12/2017							5.43
11/20/2017				6.33			5.1
1/10/2018							4.97
1/11/2018				6.29			
2/19/2018							5.6
2/20/2018				7.22			
3/27/2018			5.83				
3/28/2018		7.3			7.91	7.74	
3/29/2018	6.75						
4/3/2018				6.87			5.84
6/5/2018	6.09						
6/7/2018		7.29			7.69		
6/8/2018						7.64	
6/11/2018			5.69				
6/28/2018				6.18			5.24
8/7/2018				6.08			5.18
9/24/2018				5.81			5.14
9/25/2018	6.67						
10/1/2018		7.07			7.39	7.47	
10/2/2018			5.39				
2/26/2019			5.77				

Time Series

Constituent: pH (S.U.) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
2/27/2019		7.27			7.55	7.54	
3/5/2019	7.22						
3/26/2019							5.3
3/27/2019				5.84			
3/29/2019		7.06					
4/1/2019			5.62		7.87	7.74	
4/2/2019	6.94						
8/21/2019				5.96			5.26
9/24/2019	6.87	7.01					
9/25/2019			5.69		7.64	7.47	
10/9/2019				5.81			5.22
2/11/2020		7.38				7.09	
2/12/2020	7.13		5.8	5.97	7.83		5.3
3/19/2020		7.22	6		7.65	7.31	
3/24/2020	6.35						5.29
3/25/2020				5.78			
9/23/2020		7.22			7.57	7.37	
9/24/2020	6.7		5.67	5.7			5.43
2/9/2021	6.95						
2/10/2021		7.29		5.8	7.81	7.58	5.19
2/11/2021			5.73				
3/1/2021			5.78				
3/3/2021		7.92			8.39	8.23	
3/4/2021	6.8			5.54			5.23
8/19/2021					5.34		
8/26/2021				6.91			
8/27/2021		7.14				7.39	
9/1/2021	6.65						
9/3/2021							4.75
2/8/2022				5.78			5.26
2/9/2022	6.84	5.89			7.97	7.66	
2/11/2022			5.59				
8/30/2022	6.58	7.04					
8/31/2022			5.87	5.3	7.65	7.49	4.53
2/7/2023	6.82	6.94		5.49			
2/8/2023			6.43		7.88	7.73	5.71

Time Series

Constituent: pH (S.U.) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		6.36	7.67	5.75
7/26/2016		6.22	7.66	5.72
8/30/2016	5.75			
9/14/2016		6.23	7.6	5.74
11/2/2016		6.08	7.35	
11/4/2016				5.61
11/14/2016	5.59			
1/12/2017			7.49	5.71
1/13/2017		6.19		
2/24/2017	5.49			
3/6/2017		6.2		
3/7/2017			7.43	5.66
5/1/2017		6.21	7.22	
5/2/2017				5.65
5/8/2017	5.58			
6/27/2017			7.32	5.7
6/29/2017		6.21		
7/11/2017	5.58			
10/3/2017			7.48	5.79
10/5/2017		6.16		
10/10/2017	5.49			
3/29/2018		6.09	7.02	5.63
4/2/2018	6.3			
6/6/2018			7.43	
6/7/2018		6.12		5.63
9/19/2018	5.48			
9/26/2018		5.84	7.13	5.63
3/4/2019		6.18	7.46	5.75
3/27/2019	5.83			
4/3/2019		6.43	7.11	5.63
8/20/2019	5.58			
9/24/2019			6.93	5.6
9/25/2019		6.2		
10/8/2019	5.59			
2/12/2020		6.15	7.52	5.83
3/17/2020	5.57			
3/24/2020			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
2/8/2021				5.67
2/9/2021		6.06		
3/1/2021	5.48			
3/2/2021			7.15	5.63
3/3/2021		6.21		
8/19/2021	5.5			
8/26/2021		5.82	7.16	5.51
2/8/2022	5.4			
2/10/2022			6.99	5.14
2/11/2022		5.95		
8/30/2022			7.4	5
8/31/2022	5.32	5.5		

Time Series

Constituent: pH (S.U.) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
2/7/2023			6.64	
2/8/2023	5.22			
2/9/2023		6.23		5.9

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/2/2023 10:14 AM

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
9/9/1998	<0.012						
9/20/1999	<0.012						
9/12/2001	<0.012						
9/3/2002	<0.012						
7/29/2003	0.015						
12/5/2003	<0.012						
9/22/2004	<0.012						
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					
11/22/2010				<0.01		<0.01	
1/4/2011				<0.01		<0.01	
2/17/2011				<0.01		<0.01	
3/10/2011		<0.005					
3/11/2011				<0.01		<0.01	
3/28/2011				<0.01		<0.01	
9/7/2011				<0.01	<0.01	<0.01	<0.013
9/8/2011		<0.005	<0.01				
3/4/2012						<0.01	
3/5/2012		<0.005	<0.01		<0.01		0.014
3/6/2012				<0.01			
9/5/2012			<0.01		<0.01		0.012
9/10/2012		<0.005				0.011	
9/11/2012				<0.01			
2/5/2013			<0.01				0.011
2/6/2013		<0.005		<0.01	<0.01	0.011	
8/12/2013		<0.005					
8/13/2013			<0.01	<0.01	0.0057		
8/14/2013						0.013	0.025
2/4/2014			<0.01	<0.01		0.017	
2/5/2014		<0.005			<0.01		0.02
8/4/2014					<0.01	0.0085	0.032
8/5/2014		<0.005	<0.01	<0.01			
2/2/2015			<0.01	<0.01		0.0089	
2/3/2015					<0.01		0.011
2/4/2015		<0.005					
8/3/2015		<0.005			<0.01 (D)	0.0067 (D)	0.046 (D)
8/4/2015			<0.01 (D)	<0.01			
2/16/2016		<0.005	<0.01		<0.01	0.0047 (J)	0.022
2/17/2016				<0.01			
8/31/2016		<0.005	0.0039 (J)	0.0029 (J)	0.0038 (J)		
9/1/2016						0.0132	0.0212
11/28/2016		<0.005		0.0019 (J)			
11/29/2016			0.0033 (J)				
11/30/2016					0.0054 (J)	0.0046 (J)	
12/1/2016							0.0234
2/22/2017		<0.005		0.0015 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/2/2023 10:14 AM

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
2/23/2017			0.0097 (J)		0.002 (J)		
2/24/2017						0.0108	0.0154
5/8/2017		<0.005					
5/9/2017			0.0066 (J)		<0.01		
5/10/2017				0.0016 (J)		0.0054 (J)	0.0152
7/17/2017		<0.005					0.0136
7/18/2017			0.0021 (J)	0.0024 (J)	0.0027 (J)	0.0047 (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)		
2/19/2018		<0.005					
2/20/2018				<0.01		<0.01	
2/21/2018			<0.01		<0.01		0.0127
8/6/2018		<0.005					
8/7/2018			<0.01		0.0016 (J)		0.021
8/8/2018				0.0025 (J)		0.0041 (J)	
2/25/2019		<0.005					
2/26/2019			0.0014 (J)	0.003 (J)	0.002 (J)	0.0027 (J)	0.024
6/12/2019		<0.005		0.0034 (J)		0.0029 (J)	
6/13/2019			<0.01		0.0089 (J)		0.027
8/19/2019		<0.005				0.003 (J)	
8/20/2019			0.0022 (J)	0.0032 (J)			
8/21/2019					0.004 (J)		0.037
10/8/2019		<0.005					
10/9/2019			0.0023 (J)	0.0026 (J)			0.034
10/10/2019					0.0021 (J)	0.0024 (J)	
3/17/2020		<0.005	0.0017 (J)		0.0096 (J)		
3/18/2020				0.0032 (J)		0.0046 (J)	0.028
8/26/2020		<0.005					
8/27/2020			0.011				0.021
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
3/1/2021			0.011	0.0043 (J)		0.0041 (J)	
3/2/2021		<0.005			0.012		0.019
8/18/2021			0.019	0.0042 (J)	0.017	0.0046 (J)	0.017
8/20/2021		<0.005					
2/8/2022		<0.005	0.02		0.0091	0.0044 (J)	
2/9/2022				0.0042 (J)			0.017
8/30/2022		<0.005	0.03		0.0068	0.0038 (J)	0.019
8/31/2022				0.0042 (J)			
2/7/2023		<0.005	0.025				0.02
2/8/2023				0.0043 (J)	0.002 (J)	0.0029 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
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						
6/1/2016						<0.005	<0.005
6/2/2016		0.0011 (J)					
6/6/2016				<0.005	<0.005		
6/7/2016			0.001 (J)				
7/25/2016							<0.005
7/26/2016		0.0016 (J)				<0.005	
7/27/2016			0.0012 (J)	<0.005	<0.005		
9/1/2016	0.002 (J)						
9/13/2016						<0.005	<0.005
9/15/2016		0.0014 (J)					
9/16/2016			0.0015 (J)		<0.005		
9/19/2016				<0.005			
11/1/2016						<0.005	
11/2/2016		<0.005					
11/3/2016			0.0015 (J)	<0.005	<0.005		
11/4/2016							<0.005
11/29/2016	0.0017 (J)						
1/10/2017		0.0012 (J)					
1/11/2017			0.0014 (J)	<0.005	<0.005	<0.005	
1/16/2017							<0.005
2/23/2017	0.0018 (J)						
3/1/2017				<0.005	<0.005		
3/2/2017			0.0017 (J)			<0.005	<0.005
3/8/2017		<0.005					
4/26/2017		<0.005		<0.005	<0.005		
4/27/2017						<0.005	<0.005
5/2/2017			<0.005				
5/10/2017	0.0023 (J)						
6/27/2017						<0.005	<0.005
6/28/2017				<0.005	<0.005		
6/29/2017			<0.005				
6/30/2017		<0.005					
7/18/2017	0.0046 (J)						
10/18/2017	0.0037 (J)						
2/19/2018	<0.005						
3/27/2018		<0.005					<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)
3/28/2018			<0.005	<0.005	<0.005		
3/29/2018						<0.005	
6/7/2018				<0.005			
6/11/2018			<0.005		<0.005		
8/6/2018	0.0047 (J)						
9/25/2018			<0.005	<0.005	<0.005		
2/25/2019	0.0051 (J)						
2/26/2019		<0.005					
2/27/2019						<0.005	<0.005
3/5/2019			<0.005		<0.005		
3/6/2019				<0.005			
3/28/2019						<0.005	<0.005
3/29/2019		0.0019 (J)					
4/2/2019			<0.005				
4/3/2019				<0.005	<0.005		
6/13/2019	0.0048 (J)						
8/20/2019	0.0039 (J)						
9/24/2019						<0.005	<0.005
9/25/2019		<0.005	<0.005				
9/26/2019				<0.005	<0.005		
10/8/2019	0.0031 (J)						
2/10/2020						<0.005	<0.005
2/11/2020			<0.005	<0.005	<0.005		
2/12/2020		<0.005					
3/17/2020	0.0026 (J)						
3/18/2020		<0.005					<0.005
3/19/2020						<0.005	
3/24/2020			<0.005	<0.005	<0.005		
8/27/2020	0.0027 (J)						
9/23/2020	0.0031 (J)		<0.005	<0.005	<0.005	<0.005	<0.005
9/25/2020		<0.005					
2/9/2021				<0.005	<0.005		
2/10/2021		<0.005					
2/12/2021						<0.005	<0.005
3/2/2021		<0.005					
3/3/2021	0.002 (J)		<0.005	<0.005	<0.005	<0.005	<0.005
8/18/2021	0.0016 (J)						
8/19/2021		<0.005				<0.005	<0.005
8/26/2021					<0.005		
8/27/2021			<0.005	<0.005			
2/8/2022	<0.005						
2/9/2022			<0.005	<0.005	<0.005	<0.005	<0.005
2/10/2022		0.0014 (J)					
8/30/2022	<0.005		<0.005	<0.005	<0.005	<0.005	
8/31/2022		<0.005					<0.005
2/7/2023	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2023		<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016							<0.005
6/2/2016				<0.005		<0.005	
6/7/2016	<0.005	0.00048 (J)					
7/25/2016				<0.005			<0.005
7/26/2016						<0.005	
7/27/2016	<0.005						
7/28/2016		<0.005					
9/14/2016			<0.005				<0.005
9/15/2016						<0.005	
9/19/2016	<0.005	0.0014 (J)		<0.005			
11/1/2016				<0.005		<0.005	<0.005
11/2/2016	<0.005						
11/3/2016		<0.005					
11/4/2016			<0.005				
12/15/2016			<0.005				
1/11/2017						<0.005	<0.005
1/13/2017	<0.005	<0.005					
1/16/2017			<0.005	<0.005			
2/21/2017				<0.005			
3/1/2017							<0.005
3/2/2017						<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
4/28/2017			<0.005				
5/26/2017			<0.005				
6/28/2017			<0.005			<0.005	<0.005
6/29/2017	<0.005	<0.005					
6/30/2017				<0.005			
10/11/2017					<0.005		
11/20/2017					<0.005		
1/11/2018					<0.005		
2/20/2018					<0.005		
3/27/2018				<0.005			
3/28/2018			<0.005			<0.005	<0.005
3/29/2018	<0.005	<0.005					
4/3/2018					<0.005		
6/5/2018		<0.005					
6/6/2018	<0.005						
6/28/2018					<0.005		
8/7/2018					<0.005		
9/24/2018					0.0015 (J)		
9/25/2018	<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					
3/29/2019			<0.005				
4/1/2019				<0.005		<0.005	<0.005
4/2/2019		<0.005					
4/3/2019	<0.005						
8/21/2019					<0.005		
9/24/2019		<0.005	<0.005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)
9/25/2019	<0.005			<0.005		<0.005	<0.005
10/9/2019					<0.005		
2/11/2020			<0.005				<0.005
2/12/2020	<0.005	<0.005		<0.005	<0.005	<0.005	
3/19/2020			<0.005	<0.005		<0.005	<0.005
3/24/2020	<0.005	<0.005					
3/25/2020					<0.005		
9/23/2020			<0.005			<0.005	<0.005
9/24/2020	<0.005	<0.005		<0.005	<0.005		
2/9/2021	<0.005	<0.005					
2/10/2021			<0.005		<0.005	<0.005	<0.005
2/11/2021				<0.005			
3/1/2021				<0.005			
3/3/2021	<0.005		<0.005			<0.005	<0.005
3/4/2021		<0.005			<0.005		
8/19/2021				<0.005		<0.005	
8/26/2021					<0.005		
8/27/2021	<0.005		<0.005				<0.005
9/1/2021		<0.005					
2/8/2022					<0.005		
2/9/2022	<0.005	<0.005	<0.005			<0.005	<0.005
2/11/2022				<0.005			
8/30/2022		<0.005	<0.005				
8/31/2022	<0.005			<0.005	<0.005	<0.005	<0.005
2/7/2023	<0.005	<0.005	<0.005		<0.005		
2/8/2023				<0.005		<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016			<0.005	<0.005	<0.005
7/26/2016			0.0009 (J)	<0.005	0.0009 (J)
8/30/2016		0.0017 (J)			
9/14/2016			<0.005	<0.005	<0.005
11/2/2016			<0.005	<0.005	
11/4/2016					<0.005
11/14/2016		<0.005			
1/12/2017				<0.005	<0.005
1/13/2017			<0.005		
2/24/2017		0.0011 (J)			
3/6/2017			<0.005		
3/7/2017				<0.005	<0.005
5/1/2017			<0.005	<0.005	
5/2/2017					<0.005
5/8/2017		<0.005			
6/27/2017				<0.005	<0.005
6/29/2017			<0.005		
7/11/2017		<0.005			
10/10/2017		<0.005			
10/12/2017	<0.005				
11/20/2017	0.0042 (J)				
1/10/2018	0.0043 (J)				
2/19/2018	<0.005				
3/29/2018			<0.005	<0.005	<0.005
4/2/2018		<0.005			
4/3/2018	<0.005				
6/6/2018				<0.005	
6/7/2018			<0.005		<0.005
6/28/2018	0.0032 (J)				
8/7/2018	0.0031 (J)				
9/19/2018		<0.005			
9/24/2018	0.0026 (J)				
9/26/2018			<0.005	<0.005	<0.005
3/4/2019			<0.005	<0.005	<0.005
4/3/2019			<0.005	<0.005	<0.005
8/20/2019		<0.005			
8/21/2019	0.0024 (J)				
9/24/2019				<0.005	<0.005
9/25/2019			<0.005		
10/9/2019	0.0026 (J)				
2/12/2020	0.002 (J)		<0.005	<0.005	<0.005
3/24/2020	0.002 (J)			<0.005	<0.005
3/25/2020			<0.005		
8/27/2020		<0.005			
9/22/2020			<0.005	<0.005	<0.005
9/24/2020	0.0016 (J)				
2/8/2021				<0.005	<0.005
2/9/2021			<0.005		
2/10/2021	<0.005				
3/2/2021				<0.005	<0.005
3/3/2021			0.0019 (J)		
3/4/2021	<0.005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-40 (bg)	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
8/19/2021		<0.005			
8/26/2021			<0.005	<0.005	<0.005
9/3/2021	<0.005				
2/8/2022	0.0014 (J)	<0.005			
2/10/2022				<0.005	<0.005
2/11/2022			<0.005		
8/30/2022				<0.005	<0.005
8/31/2022	<0.005	<0.005	<0.005		
2/7/2023				<0.005	
2/8/2023	<0.005	<0.005			
2/9/2023			<0.005		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Silver (mg/L) Analysis Run 5/2/2023 10:14 AM

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	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Silver (mg/L) Analysis Run 5/2/2023 10:14 AM

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						
2/8/2022	<0.005	<0.005		<0.005	<0.005		<0.005
2/9/2022			<0.005			<0.005	
8/30/2022	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005
8/31/2022			<0.005				
2/7/2023	<0.005	<0.005				<0.005	<0.005
2/8/2023			<0.005	<0.005	<0.005		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	29	410	140	87			
9/1/2016					150	990	360
11/28/2016	36		120				
11/29/2016		450					320
11/30/2016				76	50		
12/1/2016						1100	
2/22/2017	43		100				
2/23/2017		390		47			380
2/24/2017					110	850	
5/8/2017	60						
5/9/2017		280		41			
5/10/2017			80		70	1000	660
7/17/2017	63					830	
7/18/2017		200	57	44	50		880
10/16/2017	62					720	
10/17/2017		180	59		58		
10/18/2017				53			760
2/19/2018	64.6						718
2/20/2018			55.9		64.6		
2/21/2018		146		46.7		533	
8/6/2018	42.1						797
8/7/2018		100		38.8		784	
8/8/2018			81.1		79.5		
2/25/2019	42.1						763
2/26/2019		118	129	49.3	55.8	742	
6/12/2019	83.4		180		92.8		
6/13/2019		163		77.1		976	918
10/8/2019	128						664
10/9/2019		318	91.2			1180	
10/10/2019				48	68.7		
3/17/2020	98.6	145		95.2			303
3/18/2020			200		199	960	
9/22/2020	145	478	216	55.1	72.1		
9/23/2020						992	518
3/1/2021		525	244		177		
3/2/2021	156			95.5		906	
3/3/2021							476
8/18/2021		675	223	114	118	946	345
8/20/2021	121						
2/8/2022	107	687		93.5	146		260
2/9/2022			241			937	
8/30/2022	101	994		76	155	939	174
8/31/2022			280				
2/7/2023	82.4	922				935	110
2/8/2023			288	43.3	87.8		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					5	4.2	
6/2/2016	6.6						
6/6/2016			1.2	1.8			
6/7/2016		4.4					<1
7/25/2016						3.7	
7/26/2016	6.1				5.4		
7/27/2016		4.7	1.7	1.9			0.08 (J)
9/13/2016					2.9	5.2	
9/15/2016	6.1						
9/16/2016		4.8		1.7			
9/19/2016			1.8				0.08 (J)
11/1/2016					3.9		
11/2/2016	6.3						0.1 (J)
11/3/2016		5.3	0.69 (J)	1.9			
11/4/2016						5	
1/10/2017	5.9						
1/11/2017		5.2	<1	1.7	3.7		
1/13/2017							<1
1/16/2017						7.9	
3/1/2017			1.8	<1.5			
3/2/2017		5			4.6	7.4	
3/6/2017							<1
3/8/2017	7						
4/26/2017	7		1.6	1.9			<1
4/27/2017					5.2	7.4	
5/2/2017		5					
6/27/2017					5.9	6.4	
6/28/2017			<1	<1.5			
6/29/2017		5.2					<1
6/30/2017	6.5						
10/3/2017					6.6	5.9	
10/4/2017		5.3		1.7			<1
10/5/2017	7.9		1.6				
6/5/2018					6.4		
6/6/2018						4.4	0.049 (J)
6/7/2018			0.68 (J)				
6/8/2018	6.4						
6/11/2018		5.2		0.95 (J)			
9/25/2018		6.1	1	1.5			0.13 (J)
10/1/2018	6.8				5.6	4	
3/28/2019					8	4.3	
3/29/2019	7.3						
4/2/2019		5.1					
4/3/2019			0.82 (J)	1.3			0.12 (J)
9/24/2019					5.3	4.3	
9/25/2019	6.6	5.5					<1
9/26/2019			0.64 (J)	1			
3/18/2020	8.1					5.3	
3/19/2020					10		
3/24/2020		5.4	<1	0.99 (J)			<1
9/23/2020		5.1	0.53 (J)	1.1	8.1	3.4	
9/24/2020							<1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/25/2020	6.1						
3/2/2021	6						
3/3/2021		5.2	<1	1	9	4.4	<1
8/19/2021	6.7				8.9	4.9	
8/26/2021				1.2			
8/27/2021		5.3	0.59 (J)				<1
2/9/2022		4.8	0.51 (J)	1.1	9.3	5.1	<1
2/10/2022	6.2						
8/30/2022		4.7	0.78 (J)	1.3	10.2		
8/31/2022	5.8					4.8	<1
2/7/2023		4.9	0.78 (J)	1.2	10.6	6.6	<1
2/8/2023	6.1						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						12	
6/2/2016			1.3		5.8		
6/7/2016	5.2						
7/25/2016			1.2			8.4	
7/26/2016					6.7		
7/28/2016	5.1						
9/14/2016		9.4				8.6	
9/15/2016					6		
9/19/2016	4.8		1.2				
11/1/2016			1.3		4.9	8.9	
11/3/2016	5						
11/4/2016		13					
12/15/2016		1.8					
1/11/2017					4.5	8.6	
1/13/2017	4.3						
1/16/2017		11	<1.5				
2/21/2017			1.4				
3/1/2017						9.3	
3/2/2017					4.4		
3/3/2017		8.8					
3/6/2017	4.5						
4/26/2017	4.9		1.4		5.1	11	
4/28/2017		10					
5/26/2017		12					
6/28/2017		11			5.4	12	
6/29/2017	5.5						
6/30/2017			<1.5				
10/3/2017	5.8	7.9					
10/4/2017			1.4		6.2	12	
10/11/2017				20			
10/12/2017							17
11/20/2017				24			71
1/10/2018							66
1/11/2018				23			
2/19/2018							57.2
2/20/2018				20.6			
4/3/2018				24.5			49.4
6/5/2018	6.1						
6/7/2018		8.8			6.7		
6/8/2018						9.6	
6/11/2018			1.1				
6/28/2018				22			43.8
8/7/2018				20.7			40.5
9/24/2018				21.2			39.7
9/25/2018	7						
10/1/2018		9.1			7.1	9.1	
10/2/2018			1				
3/26/2019							34.3
3/27/2019				17.7			
3/29/2019		9					
4/1/2019			0.96 (J)		7.2	8.5	
4/2/2019	3.8						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
9/24/2019	1	9.1					
9/25/2019			0.81 (J)		7	13.8	
10/9/2019				15			27.9
3/19/2020		12.4	1.6		9	12.9	
3/24/2020	3						25.2
3/25/2020				14.3			
9/23/2020		11.8			6.9	16.8	
9/24/2020	3.6		0.69 (J)	11.7			22.9
3/1/2021			0.88 (J)				
3/3/2021		10.6			7	9.6	
3/4/2021	4.5			12			21.5
8/19/2021			1		7.5		
8/26/2021				19.2			
8/27/2021		16.7				18.2	
9/1/2021	5						
9/3/2021							21.3
2/8/2022				14.6			17.9
2/9/2022	3.9	18			7.2	16	
2/11/2022			2.8				
8/30/2022	3.2	20.1					
8/31/2022			1.1	10.9	6.9	13.9	17.9
2/7/2023	3.8	17.8		9.7			
2/8/2023			0.96 (J)		7.5	14.7	17.5

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		8	20	1.9
7/26/2016		7.7	20	1.8
8/30/2016	160			
9/14/2016		7.5	19	1.8
11/2/2016		8.2	20	
11/4/2016				2
11/14/2016	150			
1/12/2017			19	1.9
1/13/2017		8.1		
2/24/2017	120			
3/6/2017		8		
3/7/2017			20	2.1
5/1/2017		8.4	20	
5/2/2017				2
5/8/2017	120			
6/27/2017			18	2.1
6/29/2017		9.2		
7/11/2017	110			
10/3/2017			16	2.3
10/5/2017		9.6		
10/10/2017	93			
4/2/2018	88.8			
6/6/2018			8.3	
6/7/2018		8.5		2
9/19/2018	75			
9/26/2018		10.2	7.9	2.3
3/27/2019	65.9			
4/3/2019		8.5	7	2.1
9/24/2019			5.5	2.4
9/25/2019		8.5		
10/8/2019	52.3			
3/17/2020	71.6			
3/24/2020			5.9	2.1
3/25/2020		8.8		
9/22/2020	51.5	8.2	5.5	2.1
3/1/2021	51.6			
3/2/2021			2.6	2.3
3/3/2021		7.8		
8/19/2021	52.6			
8/26/2021		8.5	6	2.4
2/8/2022	50.9			
2/10/2022			4.9	2.4
2/11/2022		7.7		
8/30/2022			5.7	2.4
8/31/2022	48	8		
2/7/2023			5.2	
2/8/2023	50.5			
2/9/2023		8.9		2.9

Time Series

Constituent: TDS (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	209	616	257	216			
9/1/2016					553	1400	578
11/28/2016	102		177				
11/29/2016		594					455
11/30/2016				177 (B)	247 (B)		
12/1/2016						1610 (B)	
2/22/2017	164		240				
2/23/2017		581		105			614
2/24/2017					414	1200	
5/8/2017	145						
5/9/2017		410		77			
5/10/2017			149		251	1360	955
7/17/2017	185					1340	
7/18/2017		322	122	89	179		1270
10/16/2017	218					1080	
10/17/2017		381	214		256		
10/18/2017				166			1150
2/19/2018	173						1070
2/20/2018			131		233		
2/21/2018		285		105		830	
8/6/2018	158						1260
8/7/2018		242		99		1180	
8/8/2018			166		292		
2/25/2019	92						1160
2/26/2019		69	293	109	226	1010	
6/12/2019	226		391		298		
6/13/2019		301		136		1410	1310
10/8/2019	276						1050
10/9/2019		526	372			1680	
10/10/2019				109	247		
3/17/2020	185	306		175			588
3/18/2020			351		703	1520	
9/22/2020	281	675	394	110	217		
9/23/2020						1000	820
3/1/2021		974	516		666		
3/2/2021	296 (D)			167		980	
3/3/2021							942
8/18/2021		1200	474	214	630	1660	682
8/20/2021	254						
2/8/2022	283	1310		231	648		549
2/9/2022			466			1440	
8/30/2022	244	1600		150	628	1570	400
8/31/2022			510				
2/7/2023	207	1400				1370	259
2/8/2023			540	101	718		

Time Series

Constituent: TDS (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					120	54	
6/2/2016	46						
6/6/2016			120	58			
6/7/2016		28					38
7/25/2016						48	
7/26/2016	54				94		
7/27/2016		74	94	35			74
9/13/2016					105	67	
9/15/2016	54						
9/16/2016		67		35			
9/19/2016			92				45
11/1/2016					44		
11/2/2016	71						53
11/3/2016		41	104	48			
11/4/2016						60	
1/10/2017	45						
1/11/2017		104	133	95	107		
1/13/2017							46
1/16/2017						65	
3/1/2017			119	79			
3/2/2017		77			98	61	
3/6/2017							164
3/8/2017	178						
4/26/2017	52		162	36			34
4/27/2017					116	31	
5/2/2017		142					
6/27/2017					89	42	
6/28/2017			98	45			
6/29/2017		53					68
6/30/2017	45						
10/3/2017					119	58	
10/4/2017		61		45			54
10/5/2017	40		104				
6/5/2018					127		
6/6/2018						96	79
6/7/2018			68				
6/8/2018	114						
6/11/2018		70		74			
9/25/2018		86	109	63			73
10/1/2018	50				117	60	
3/28/2019					87	87	
3/29/2019	63						
4/2/2019		72					
4/3/2019			89	63			57
9/24/2019					124	54	
9/25/2019	64	81					75
9/26/2019			126	72			
3/18/2020	57					35	
3/19/2020					116		
3/24/2020		71	91	59			76
9/23/2020		99	103	81	108	15	
9/24/2020							69

Time Series

Constituent: TDS (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
9/25/2020	54						
3/2/2021	67						
3/3/2021		57	95	37	99	39	53
8/19/2021	54				105	44	
8/26/2021				31			
8/27/2021		93	112				67
2/9/2022		81	103	60	105	57	72
2/10/2022	56						
8/30/2022		81	100	52	116		
8/31/2022	51					46	62
2/7/2023		78	96	55	131	121	89
2/8/2023	56						

Time Series

Constituent: TDS (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						150	
6/2/2016			36		130		
6/7/2016	60						
7/25/2016			50			135	
7/26/2016					141		
7/28/2016	81						
9/14/2016		152				127	
9/15/2016					153		
9/19/2016	68		35				
11/1/2016			<25		92	75	
11/3/2016	61						
11/4/2016		148					
12/15/2016		191					
1/11/2017					159	148	
1/13/2017	76						
1/16/2017		180	47				
2/21/2017			<25				
3/1/2017						182	
3/2/2017					117		
3/3/2017		156					
3/6/2017	167						
4/26/2017	50		55		181	92	
4/28/2017		130					
5/26/2017		223					
6/28/2017		166			169	126	
6/29/2017	94						
6/30/2017			42				
10/3/2017	149	153					
10/4/2017			31		141	147	
10/11/2017				68			
10/12/2017							74
11/20/2017				139			179
1/10/2018							140
1/11/2018				153			
2/19/2018							119
2/20/2018				87			
4/3/2018				85			106
6/5/2018	109						
6/7/2018		146			95		
6/8/2018						158	
6/11/2018			59				
6/28/2018				88			112
8/7/2018				89			103
9/24/2018				82			107
9/25/2018	122						
10/1/2018		155			165	138	
10/2/2018			57				
3/26/2019							90
3/27/2019				75			
3/29/2019		150					
4/1/2019			54		149	19 (J)	
4/2/2019	134						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: TDS (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
9/24/2019	157	146					
9/25/2019			51		157	159	
10/9/2019				119			98
3/19/2020		148	47		146	148	
3/24/2020	117						84
3/25/2020				158			
9/23/2020		161			157	155	
9/24/2020	113		51	170			77
3/1/2021			23				
3/3/2021		138			137	111	
3/4/2021	110			168			57
8/19/2021			50		144		
8/26/2021				249			
8/27/2021		150				155	
9/1/2021	137						
9/3/2021							88
2/8/2022				248			93
2/9/2022	131	156			154	145	
2/11/2022			66				
8/30/2022	122	153					
8/31/2022			33	242	141	137	92
2/7/2023	163	159		224			
2/8/2023			43		144	145	115

Time Series

Constituent: TDS (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		96	160	66
7/26/2016		92	177	78
8/30/2016	319			
9/14/2016		102	187	73
11/2/2016		115	181	
11/4/2016				75
11/14/2016	280			
1/12/2017			202	86
1/13/2017		67		
2/24/2017	162			
3/6/2017		159		
3/7/2017			257	108
5/1/2017		107	165	
5/2/2017				103
5/8/2017	194			
6/27/2017			189	73
6/29/2017		79		
7/11/2017	193			
10/3/2017			170	89
10/5/2017		95		
10/10/2017	175			
4/2/2018	192			
6/6/2018			151	
6/7/2018		90		142
9/19/2018	186			
9/26/2018		116	144	86
3/27/2019	170			
4/3/2019		111	142	83
9/24/2019			129	79
9/25/2019		117		
10/8/2019	172			
3/17/2020	165			
3/24/2020			139	68
3/25/2020		146		
9/22/2020	141	83	104	75
3/1/2021	145			
3/2/2021			52	67
3/3/2021		80		
8/19/2021	134			
8/26/2021		93	123	86
2/8/2022	151			
2/10/2022			127	77
2/11/2022		102		
8/30/2022			148	86
8/31/2022	116	92		
2/7/2023			180	
2/8/2023	141			
2/9/2023		124		59

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/2/2023 10:14 AM

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	<0.001						
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)				
8/31/2016	<0.001	<0.001	<0.001	<0.001			
9/1/2016					<0.001	<0.001	<0.001
11/28/2016	<0.001		<0.001				
11/29/2016		<0.001					<0.001
11/30/2016				<0.001	<0.001		
12/1/2016						<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	
5/8/2017	6E-05 (J)						
5/9/2017		<0.001		<0.001			
5/10/2017			<0.001		<0.001	<0.001	<0.001
7/17/2017	6E-05 (J)					<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
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	
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	
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)	
10/8/2019	<0.001						<0.001
10/9/2019		<0.001	<0.001			<0.001	
10/10/2019				<0.001	<0.001		
3/17/2020	<0.001	<0.001		<0.001			<0.001
3/18/2020			<0.001		<0.001	<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
3/1/2021		<0.001	<0.001		<0.001		
3/2/2021	<0.001			<0.001		<0.001	
3/3/2021							<0.001
8/18/2021		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/20/2021	<0.001						
2/8/2022	<0.001	<0.001		<0.001	<0.001		<0.001
2/9/2022			<0.001			<0.001	
8/30/2022	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001
8/31/2022			<0.001				
2/7/2023	<0.001	<0.001				<0.001	<0.001
2/8/2023			<0.001	<0.001	<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
6/1/2016					<0.001	<0.001	
6/2/2016	<0.001						
6/6/2016			<0.001	<0.001			
6/7/2016		<0.001					<0.001
7/25/2016						<0.001	
7/26/2016	<0.001				<0.001		
7/27/2016		<0.001	<0.001	<0.001			<0.001
9/13/2016					<0.001	<0.001	
9/15/2016	<0.001						
9/16/2016		<0.001		<0.001			
9/19/2016			<0.001				<0.001
11/1/2016					<0.001		
11/2/2016	<0.001						<0.001
11/3/2016		<0.001	<0.001	<0.001			
11/4/2016						<0.001	
1/10/2017	<0.001						
1/11/2017		<0.001	<0.001	<0.001	<0.001		
1/13/2017							<0.001
1/16/2017						<0.001	
3/1/2017			<0.001	<0.001			
3/2/2017		<0.001			<0.001	<0.001	
3/6/2017							<0.001
3/8/2017	<0.001						
4/26/2017	<0.001		<0.001	<0.001			<0.001
4/27/2017					<0.001	<0.001	
5/2/2017		<0.001					
6/27/2017					<0.001	<0.001	
6/28/2017			<0.001	<0.001			
6/29/2017		<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			
3/29/2018					<0.001		<0.001
2/26/2019	<0.001						
2/27/2019					<0.001	<0.001	
3/5/2019		<0.001		<0.001			<0.001
3/6/2019			<0.001				
4/2/2019		<0.001					
4/3/2019			<0.001	<0.001			<0.001
9/25/2019		<0.001					<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	8.9E-05 (J)						<0.001
3/18/2020	<0.001					<0.001	
3/19/2020					<0.001		
3/24/2020		<0.001	<0.001	<0.001			<0.001
9/23/2020		<0.001	<0.001	<0.001	<0.001	<0.001	
9/24/2020							<0.001
9/25/2020	<0.001						
2/9/2021			<0.001	<0.001			<0.001
2/10/2021	<0.001						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-14S (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-20S (bg)
2/12/2021					<0.001	<0.001	
2/9/2022		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001						
8/30/2022		<0.001	<0.001	<0.001	<0.001		
8/31/2022	<0.001					<0.001	<0.001
2/7/2023		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/8/2023	<0.001						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
6/1/2016						<0.001	
6/2/2016			<0.001		<0.001		
6/7/2016	<0.001						
7/25/2016			<0.001			<0.001	
7/26/2016					0.0001 (J)		
7/28/2016	<0.001						
9/14/2016		<0.001				<0.001	
9/15/2016					<0.001		
9/19/2016	<0.001		<0.001				
11/1/2016			<0.001		<0.001	<0.001	
11/3/2016	<0.001						
11/4/2016		<0.001					
12/15/2016		<0.001					
1/11/2017					<0.001	<0.001	
1/13/2017	<0.001						
1/16/2017		<0.001	<0.001				
2/21/2017			<0.001				
3/1/2017						<0.001	
3/2/2017					<0.001		
3/3/2017		<0.001					
3/6/2017	<0.001						
4/26/2017	<0.001		<0.001		<0.001	<0.001	
4/28/2017		<0.001					
5/26/2017		<0.001					
6/28/2017		<0.001			<0.001	<0.001	
6/29/2017	<0.001						
6/30/2017			<0.001				
10/11/2017				<0.001			
10/12/2017							<0.001
11/20/2017				<0.001			<0.001
1/10/2018							<0.001
1/11/2018				<0.001			
2/19/2018							<0.001
2/20/2018				<0.001			
3/27/2018			<0.001				
3/28/2018		<0.001			<0.001	<0.001	
3/29/2018	<0.001						
4/3/2018				<0.001			<0.001
6/28/2018				<0.001			<0.001
8/7/2018				<0.001			<0.001
9/24/2018				<0.001			<0.001
9/25/2018	<0.001						
2/26/2019			<0.001				
2/27/2019		<0.001			<0.001	<0.001	
3/5/2019	<0.001						
4/2/2019	<0.001						
8/21/2019				<0.001			<0.001
9/24/2019	<0.001						
2/11/2020		<0.001				<0.001	
2/12/2020	<0.001		<0.001	<0.001	<0.001		<0.001
3/19/2020		<0.001	<0.001		<0.001	<0.001	
3/24/2020	<0.001						<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-21I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-39 (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWA-40 (bg)
3/25/2020				<0.001			
9/23/2020		<0.001			<0.001	0.00016 (J)	
9/24/2020	<0.001		<0.001	<0.001			<0.001
2/9/2021	<0.001						
2/10/2021		<0.001		<0.001	<0.001	<0.001	<0.001
2/11/2021			<0.001				
2/8/2022				<0.001			<0.001
2/9/2022	<0.001	<0.001			<0.001	<0.001	
2/11/2022			<0.001				
8/30/2022	<0.001	<0.001					
8/31/2022			<0.001	<0.001	<0.001	<0.001	<0.001
2/7/2023	<0.001	<0.001		<0.001			
2/8/2023			<0.001		<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/2/2023 10:14 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-47 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)
6/2/2016		<0.001	<0.001	<0.001
7/26/2016		<0.001	<0.001	<0.001
8/30/2016	<0.001			
9/14/2016		<0.001	<0.001	<0.001
11/2/2016		<0.001	<0.001	
11/4/2016				<0.001
11/14/2016	<0.001			
1/12/2017			<0.001	<0.001
1/13/2017		<0.001		
2/24/2017	<0.001			
3/6/2017		<0.001		
3/7/2017			<0.001	<0.001
5/1/2017		<0.001	<0.001	
5/2/2017				<0.001
5/8/2017	<0.001			
6/27/2017			<0.001	<0.001
6/29/2017		<0.001		
7/11/2017	<0.001			
10/10/2017	<0.001			
3/29/2018		<0.001	<0.001	<0.001
4/2/2018	<0.001			
9/19/2018	<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)			
9/24/2019			<0.001	<0.001
9/25/2019		<0.001		
10/8/2019	8.4E-05 (J)			
2/12/2020		<0.001	<0.001	<0.001
3/17/2020	<0.001			
3/24/2020			<0.001	<0.001
3/25/2020		<0.001		
8/27/2020	<0.001			
9/22/2020		<0.001	<0.001	<0.001
2/8/2021			<0.001	<0.001
2/9/2021		<0.001		
8/19/2021	<0.001			
2/8/2022	<0.001			
2/10/2022			<0.001	<0.001
2/11/2022		<0.001		
8/30/2022			<0.001	<0.001
8/31/2022	<0.001	<0.001		
2/7/2023			<0.001	
2/8/2023	<0.001			
2/9/2023		<0.001		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Vanadium (mg/L) Analysis Run 5/2/2023 10:14 AM

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	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Vanadium (mg/L) Analysis Run 5/2/2023 10:14 AM

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						
2/8/2022	<0.01	<0.01		<0.01	<0.01		<0.01
2/9/2022			<0.01			<0.01	
8/30/2022	0.0026 (J)	<0.01		<0.01	<0.01	<0.01	<0.01
8/31/2022			<0.01				
2/7/2023	<0.01	<0.01				<0.01	<0.01
2/8/2023			<0.01	<0.01	<0.01		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Zinc (mg/L) Analysis Run 5/2/2023 10:14 AM

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
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					
11/18/2009		0.0038					
3/3/2010		0.0085					
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					
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				
3/4/2012						<0.01	
3/5/2012		0.0059	0.0038		0.0043		0.0034
3/6/2012				0.0032			
9/5/2012			0.0051		0.0069		0.0035
9/10/2012		0.0052				<0.01	
9/11/2012				0.0029			
2/5/2013			<0.01				0.0027
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		
8/14/2013						<0.01	0.0041
2/4/2014			0.0037	0.011		0.0034	
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			
2/2/2015			0.0051	0.0031		<0.01	
2/3/2015					0.0061		0.0044
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)			
2/16/2016		0.0024 (J)	0.0015 (J)		0.0093	0.0017 (J)	0.014
2/17/2016				0.0034			
2/22/2017		0.0042 (J)		0.0024 (J)			
2/23/2017			0.0024 (J)		0.0031 (J)		
2/24/2017						0.0028 (J)	0.0043 (J)
5/8/2017		0.0025 (J)					
5/9/2017			0.0016 (J)		0.0025 (J)		
5/10/2017				0.0022 (J)		0.0014 (J)	0.0042 (J)
7/17/2017		0.0032 (J)					0.0055 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Zinc (mg/L) Analysis Run 5/2/2023 10:14 AM

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
7/18/2017			0.0015 (J)	0.0017 (J)	0.0028 (J)	0.0015 (J)	
2/19/2018		<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)					
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					
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
10/8/2019		0.0078 (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		
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
3/1/2021			<0.01	<0.01		<0.01	
3/2/2021		0.031			0.0069 (J)		0.022
8/18/2021			<0.01	<0.01	0.011	<0.01	0.026
8/20/2021		0.014					
2/8/2022		0.014	<0.01		0.0098 (J)	<0.01	
2/9/2022				<0.01			0.025
8/30/2022		0.011	<0.01		<0.01	<0.01	0.022
8/31/2022				<0.01			
2/7/2023		0.0072 (J)	<0.01				0.023
2/8/2023				<0.01	<0.01	<0.01	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Zinc (mg/L) Analysis Run 5/2/2023 10:14 AM

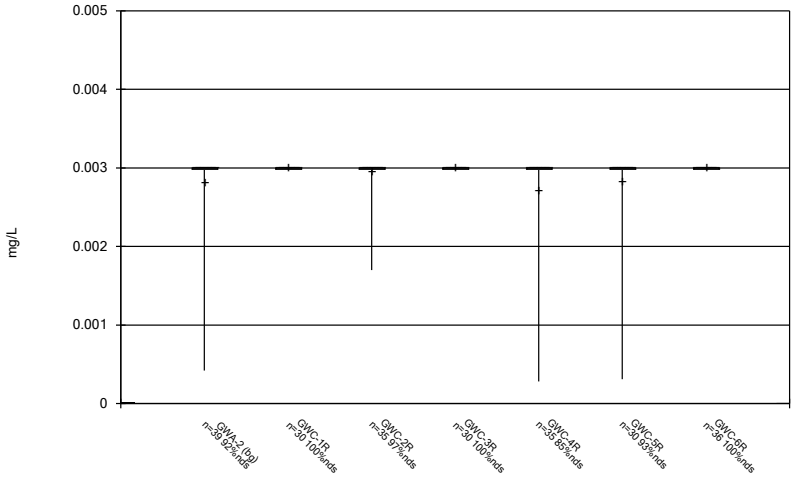
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	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
2/8/2022	<0.01
8/30/2022	<0.01
2/7/2023	<0.01

ND substitution: RL or RL/2 if <15% NDs.

FIGURE B.

Box & Whiskers Plot

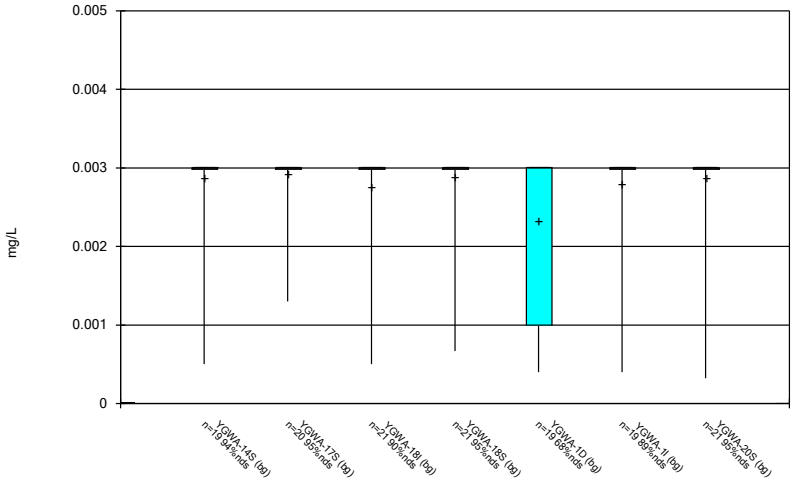


Constituent: Antimony Analysis Run 5/2/2023 10:15 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

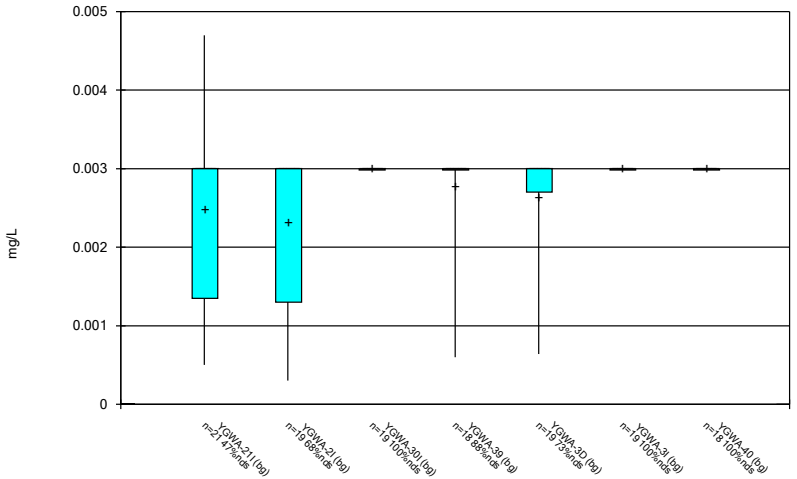


Constituent: Antimony Analysis Run 5/2/2023 10:15 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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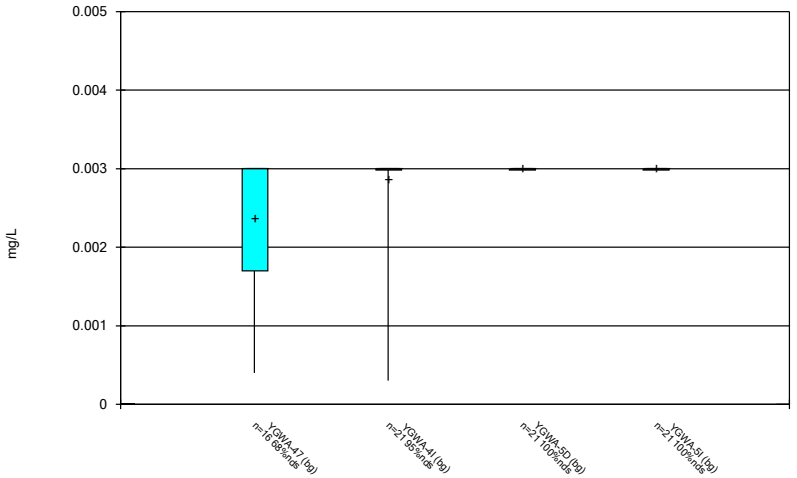
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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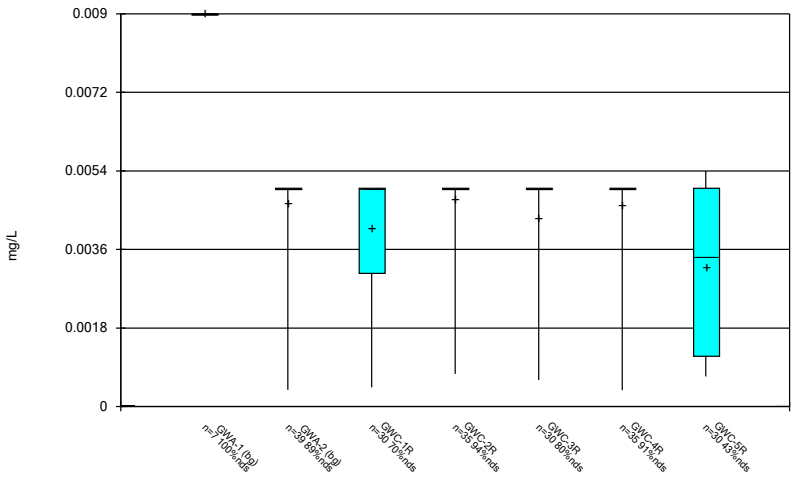
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot

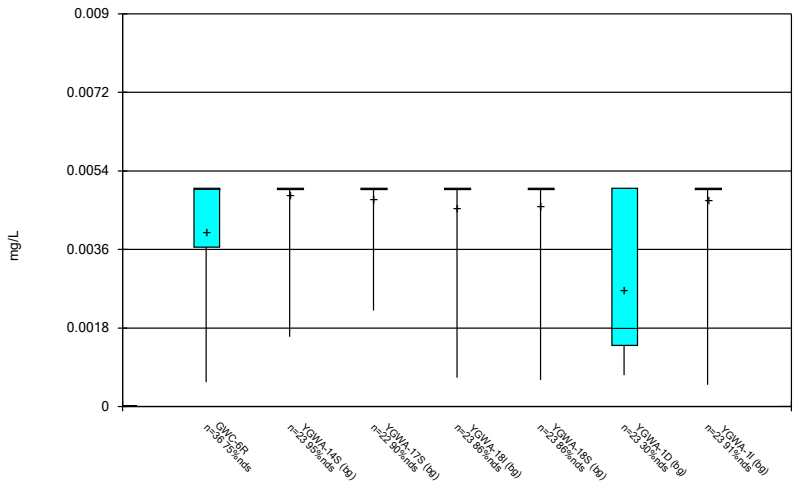


Constituent: Arsenic Analysis Run 5/2/2023 10:15 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

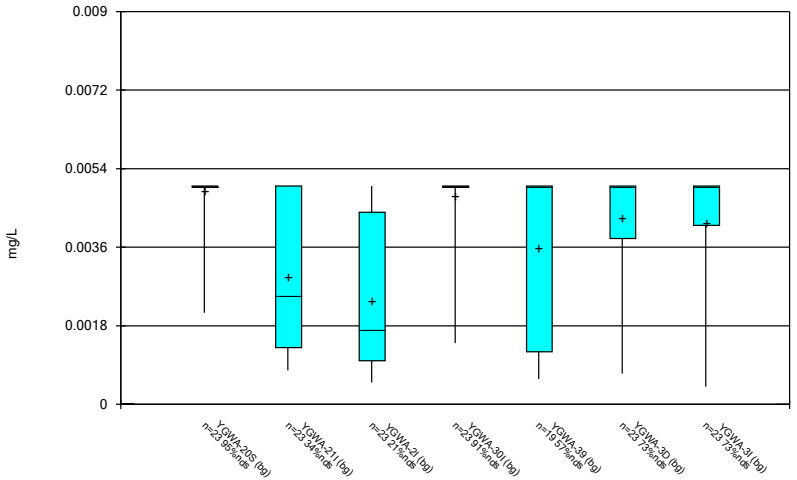


Constituent: Arsenic Analysis Run 5/2/2023 10:15 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

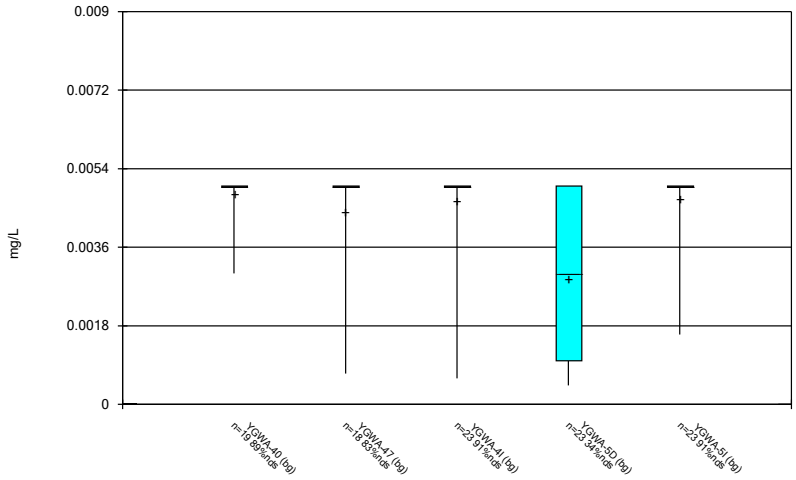


Constituent: Arsenic Analysis Run 5/2/2023 10:15 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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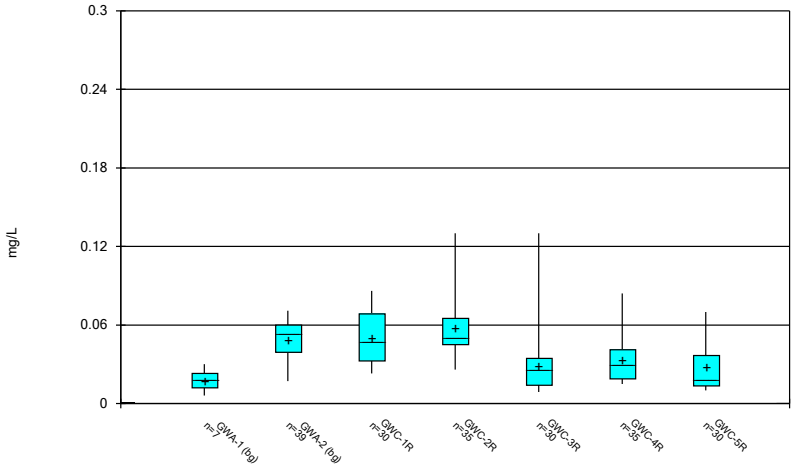
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot

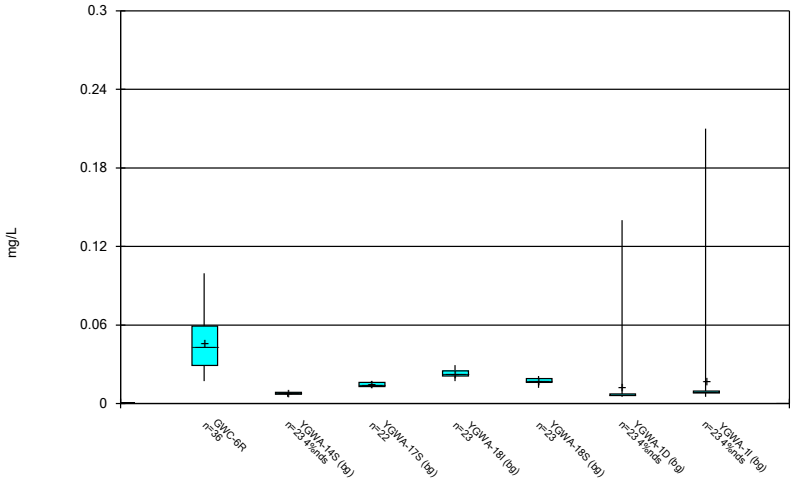


Constituent: Barium Analysis Run 5/2/2023 10:15 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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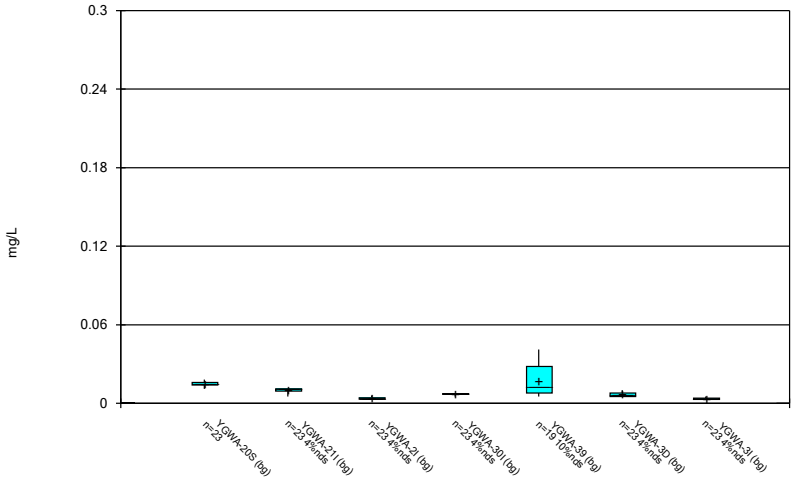
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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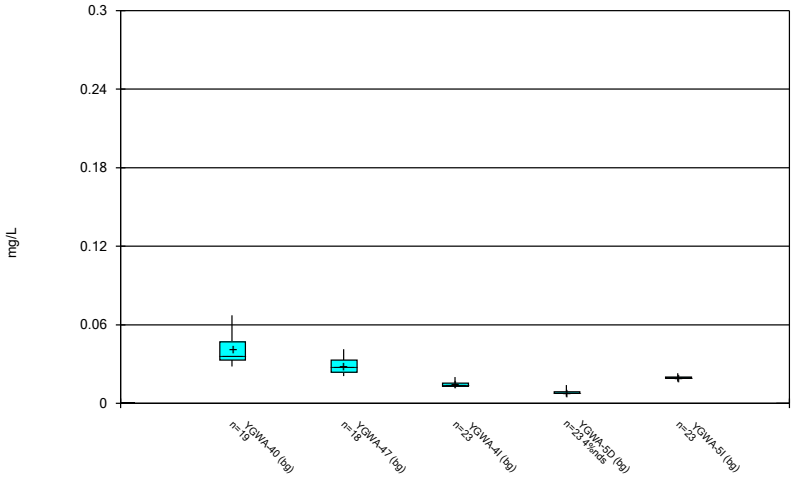
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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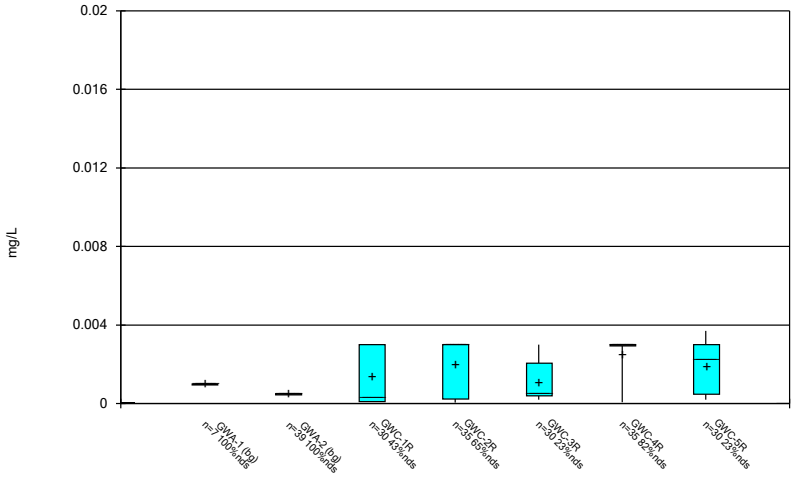
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot

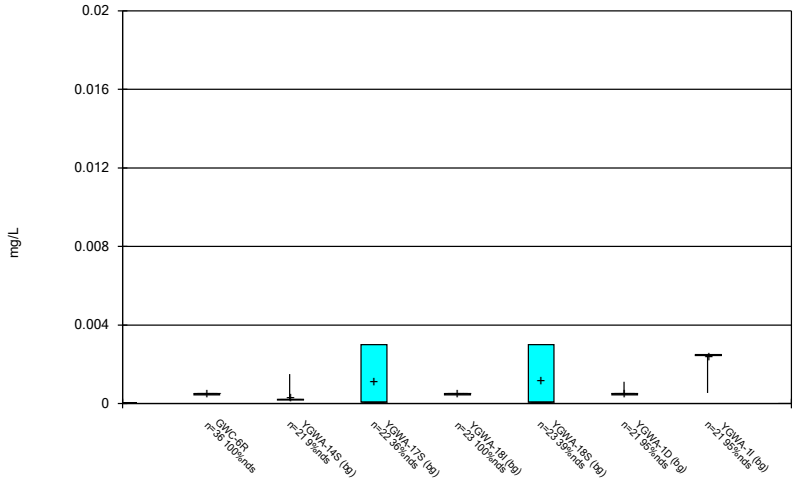


Constituent: Beryllium Analysis Run 5/2/2023 10:15 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

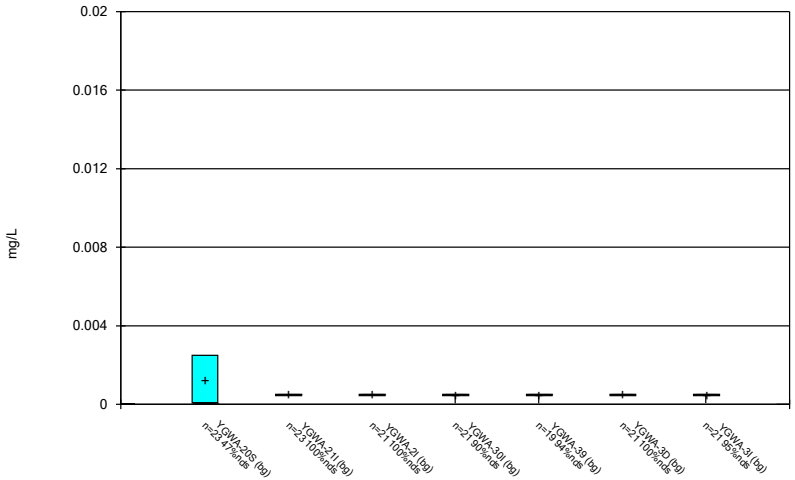


Constituent: Beryllium Analysis Run 5/2/2023 10:15 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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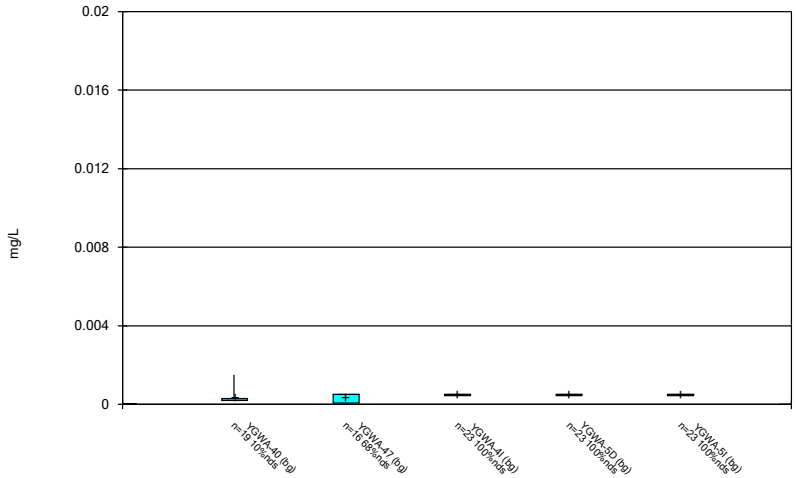
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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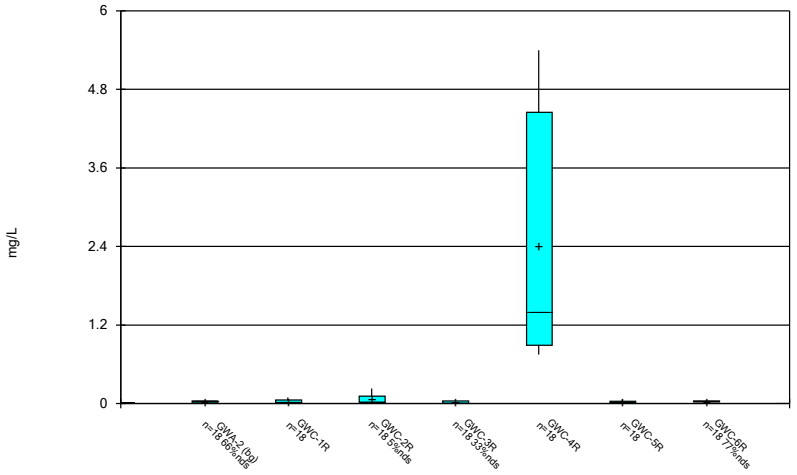
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot

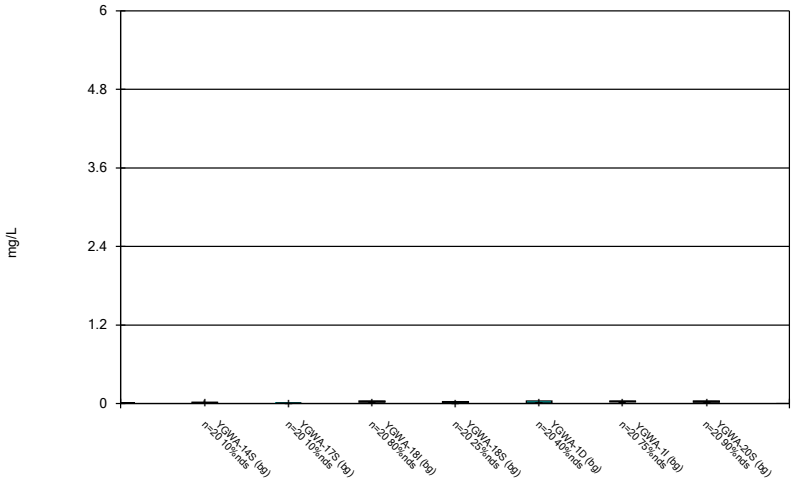


Constituent: Boron Analysis Run 5/2/2023 10:15 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

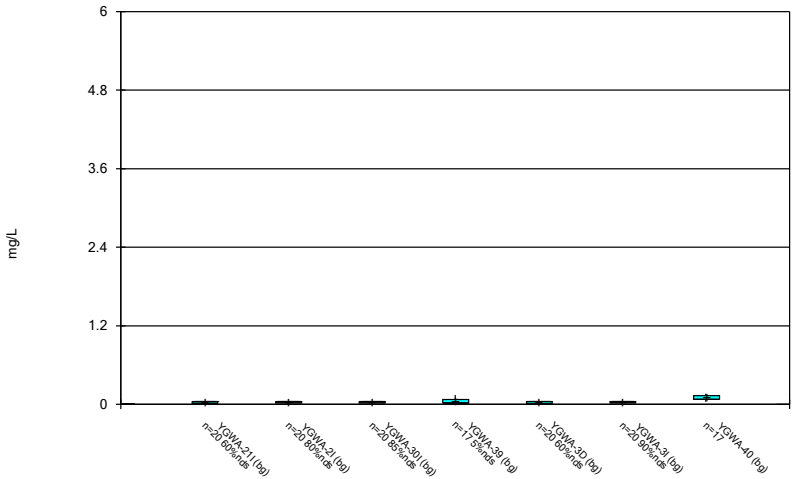


Constituent: Boron Analysis Run 5/2/2023 10:15 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

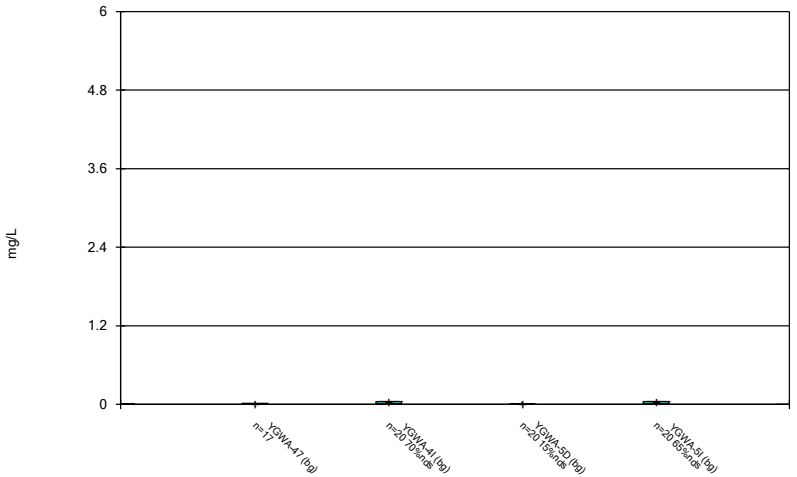


Constituent: Boron Analysis Run 5/2/2023 10:15 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

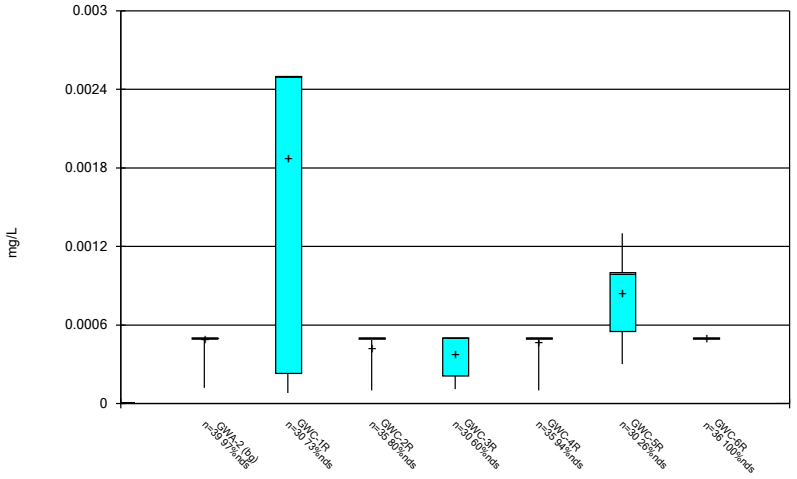
Box & Whiskers Plot



Constituent: Boron Analysis Run 5/2/2023 10:15 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot

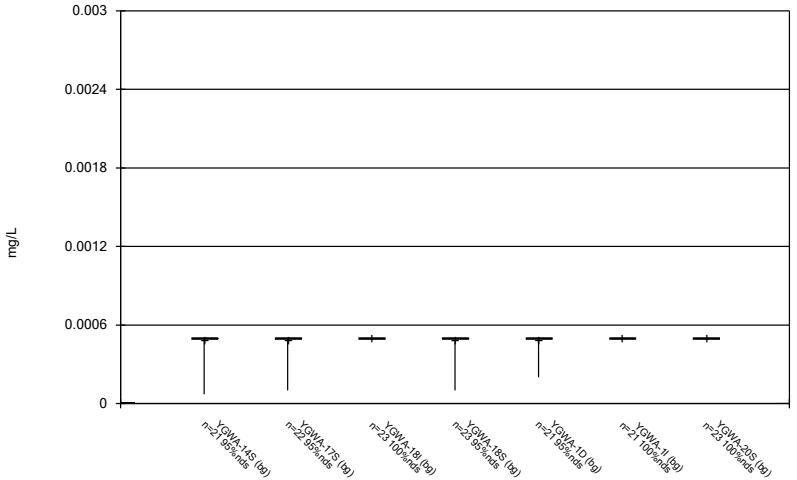


Constituent: Cadmium Analysis Run 5/2/2023 10:15 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

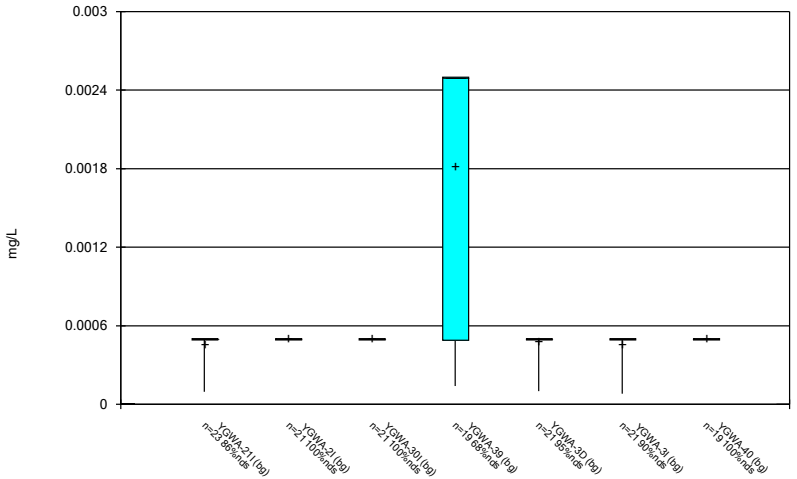


Constituent: Cadmium Analysis Run 5/2/2023 10:15 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

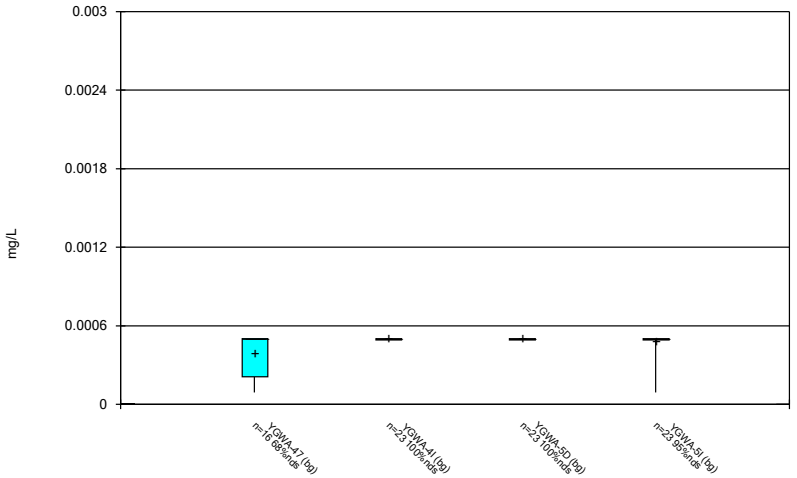


Constituent: Cadmium Analysis Run 5/2/2023 10:15 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

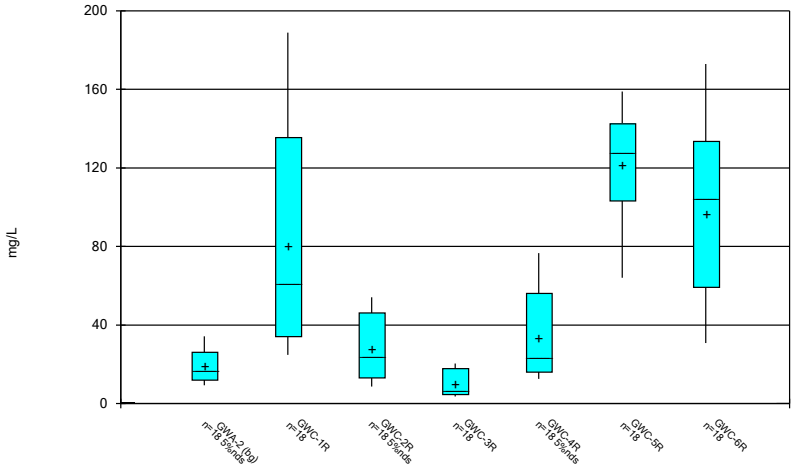
Box & Whiskers Plot



Constituent: Cadmium Analysis Run 5/2/2023 10:15 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot

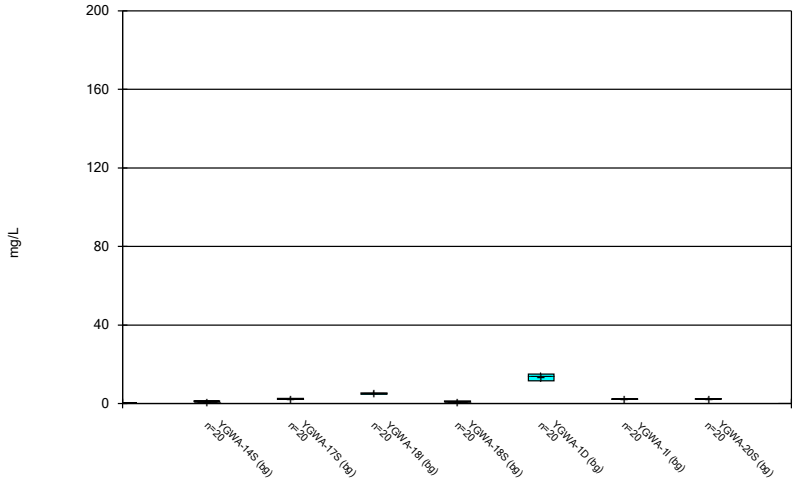


Constituent: Calcium Analysis Run 5/2/2023 10:15 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

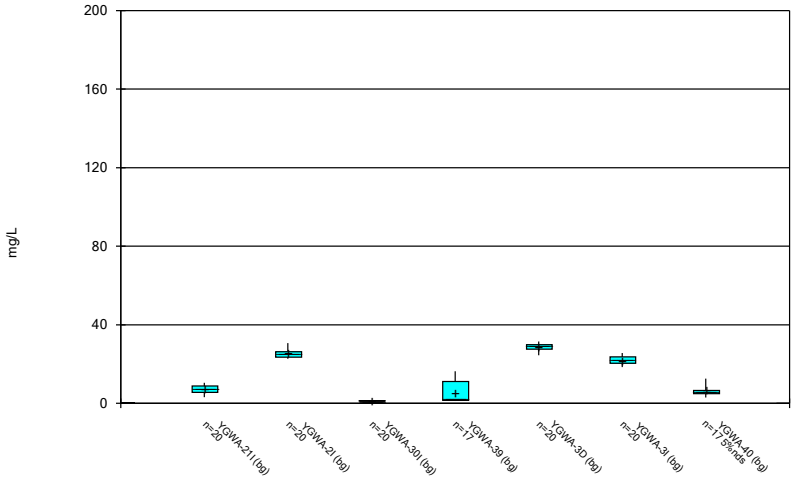


Constituent: Calcium Analysis Run 5/2/2023 10:15 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

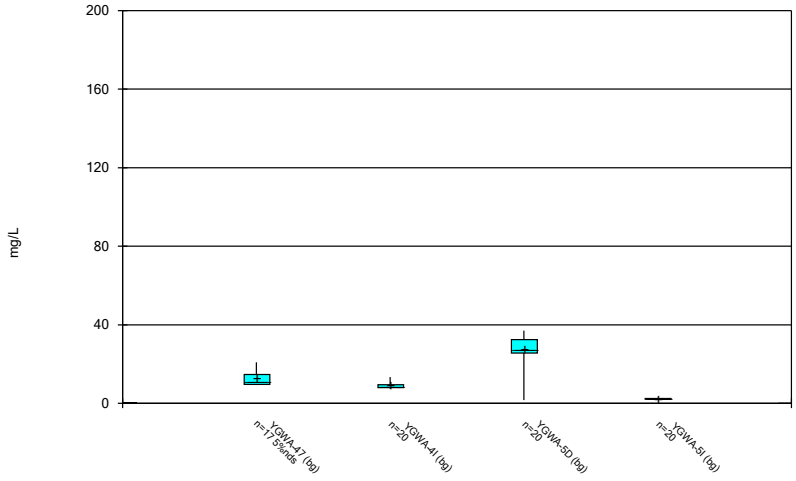


Constituent: Calcium Analysis Run 5/2/2023 10:15 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

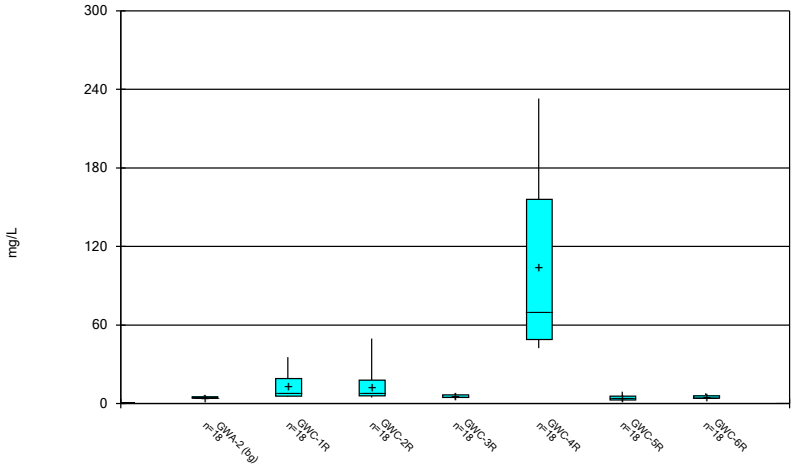
Box & Whiskers Plot



Constituent: Calcium Analysis Run 5/2/2023 10:15 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot

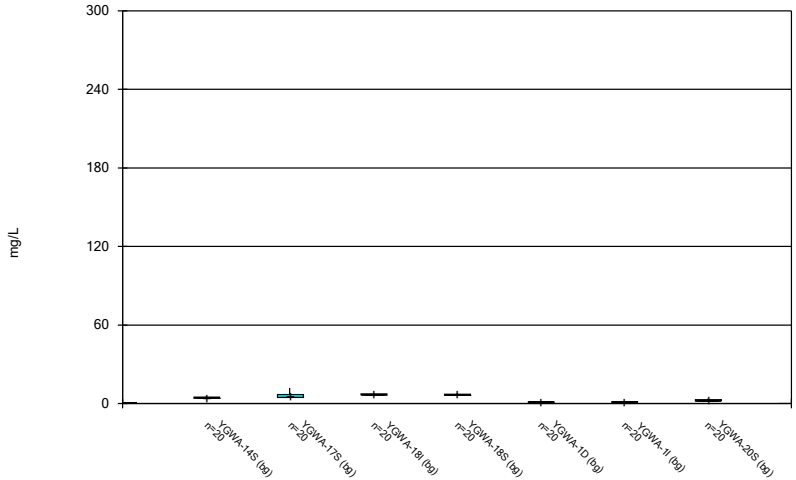


Constituent: Chloride Analysis Run 5/2/2023 10:15 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

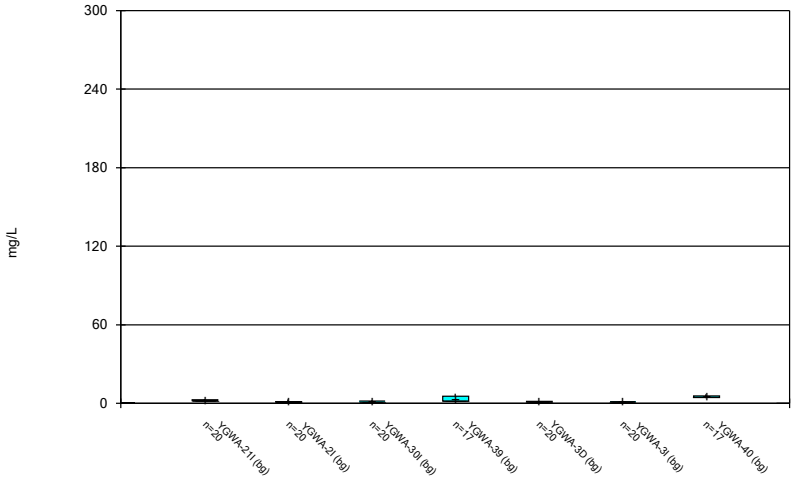


Constituent: Chloride Analysis Run 5/2/2023 10:15 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

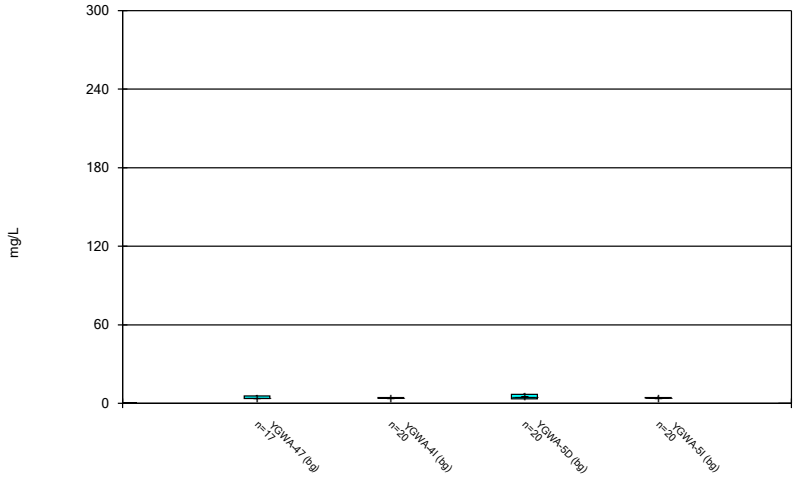


Constituent: Chloride Analysis Run 5/2/2023 10:15 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

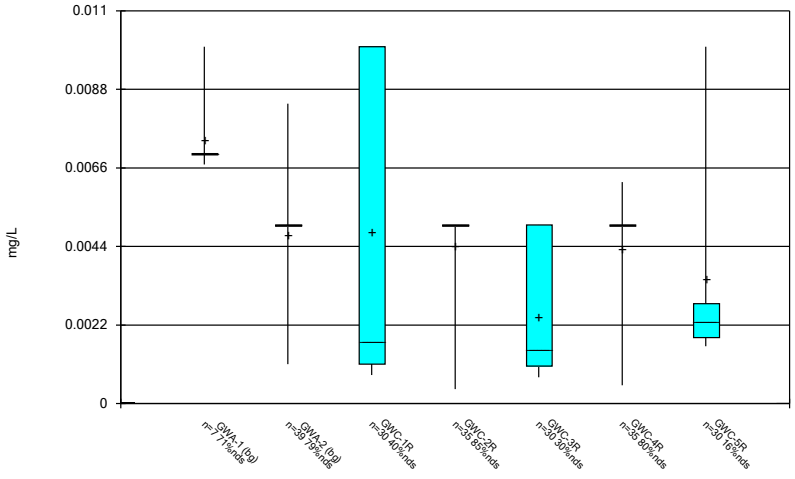
Box & Whiskers Plot



Constituent: Chloride Analysis Run 5/2/2023 10:15 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot

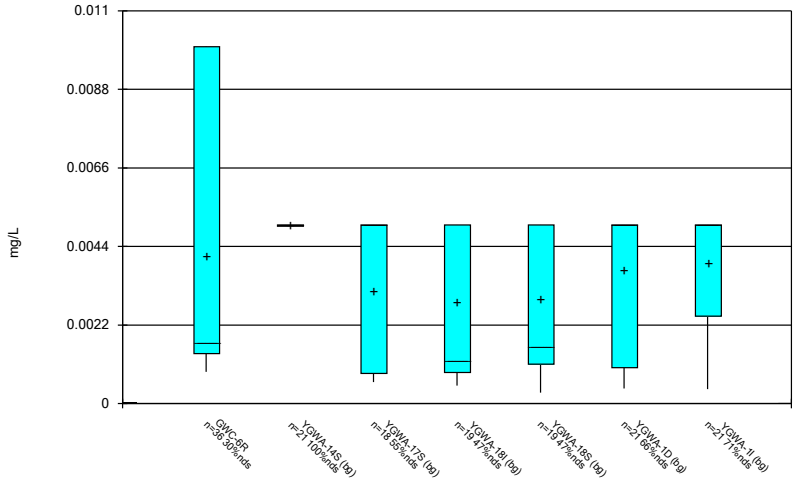


Constituent: Chromium Analysis Run 5/2/2023 10:15 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

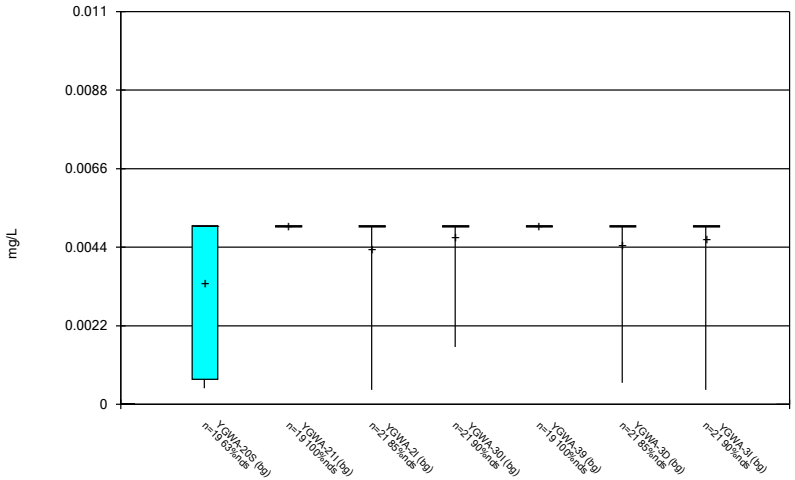


Constituent: Chromium Analysis Run 5/2/2023 10:15 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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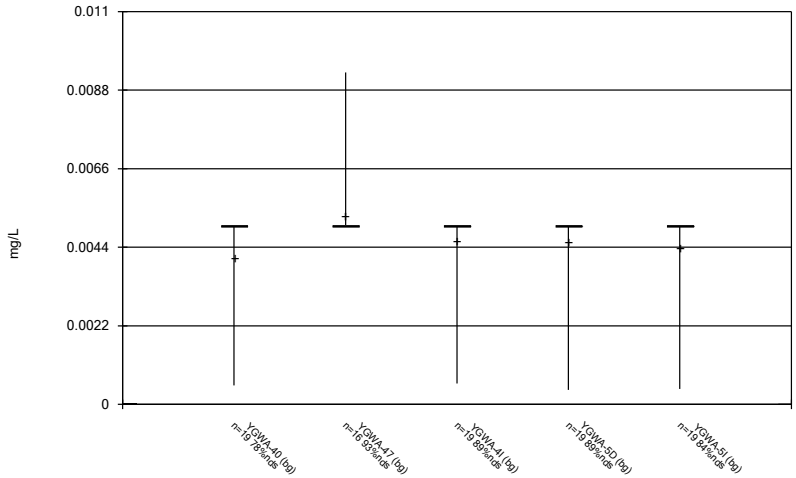
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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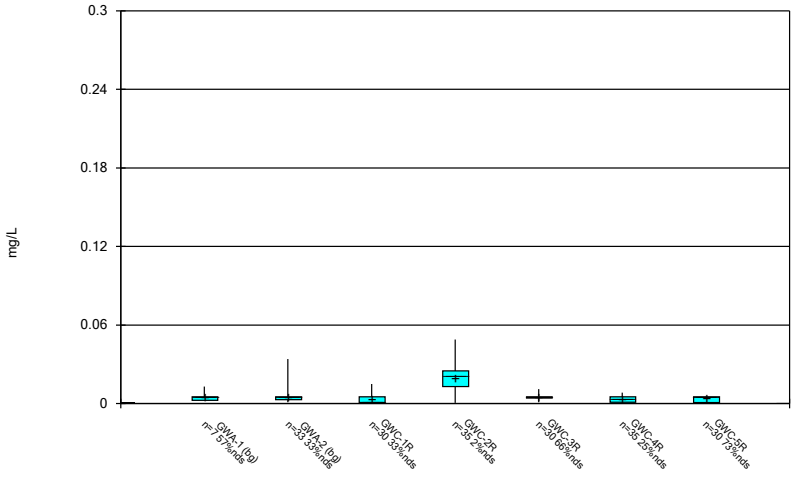
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot

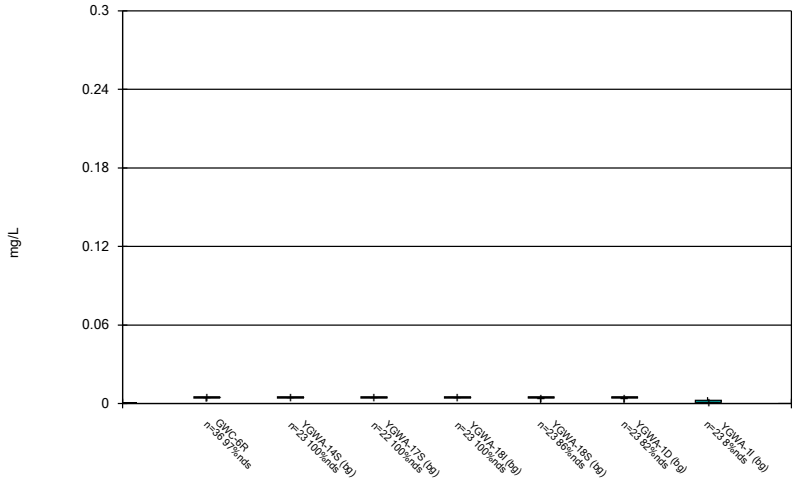


Constituent: Cobalt Analysis Run 5/2/2023 10:15 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

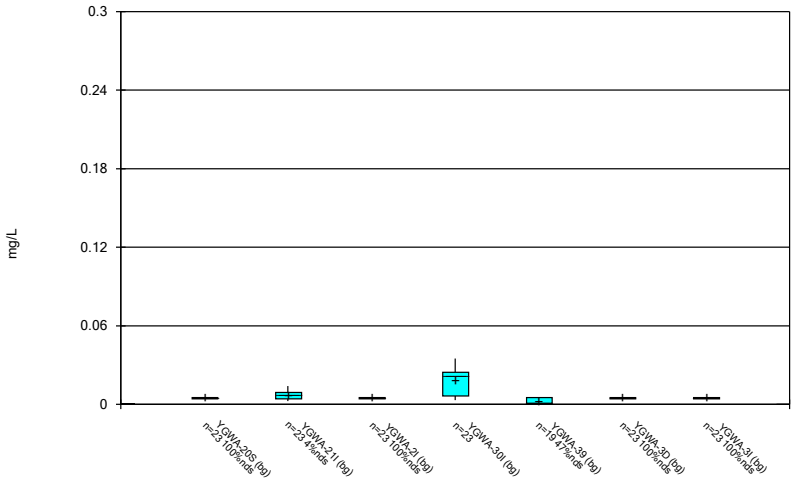


Constituent: Cobalt Analysis Run 5/2/2023 10:15 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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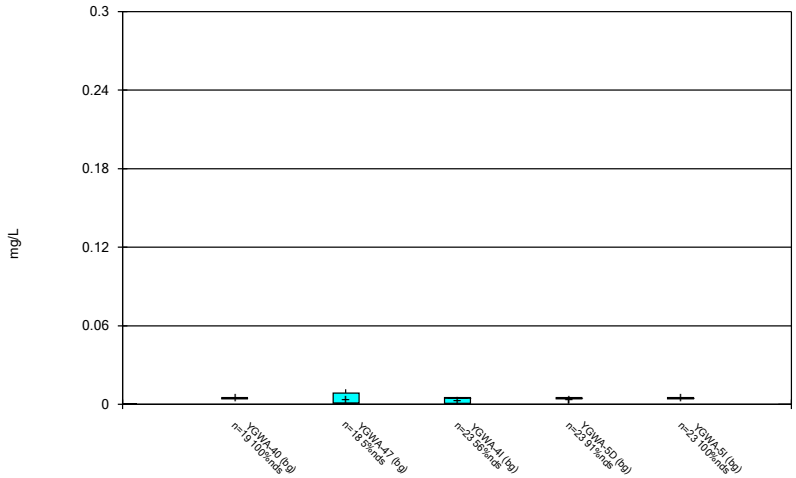
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

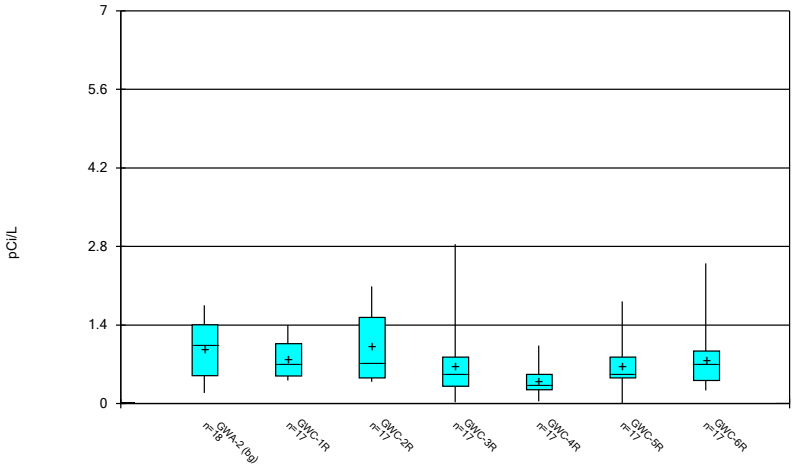
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 5/2/2023 10:15 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

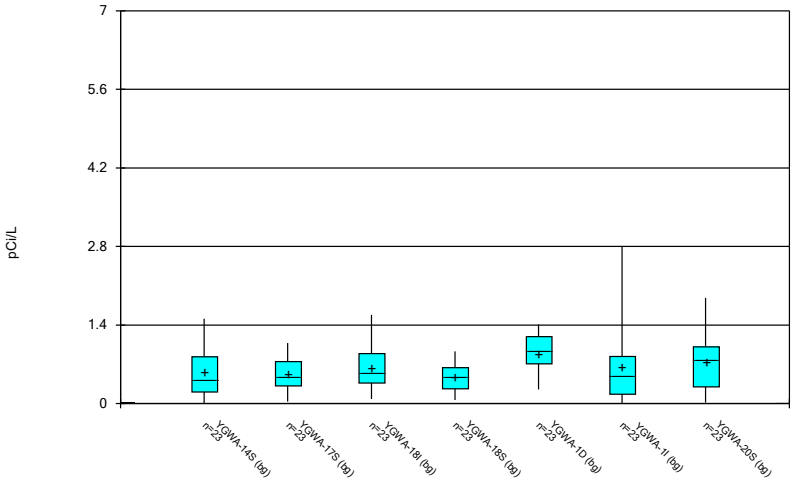
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 5/2/2023 10:15 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

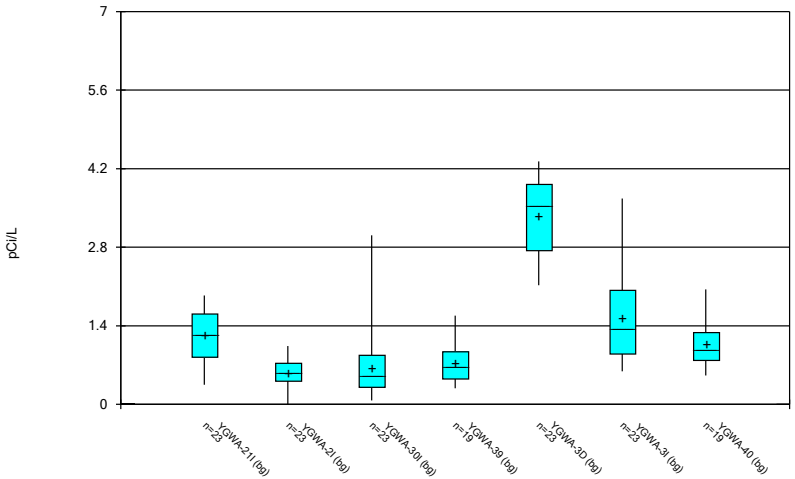
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 5/2/2023 10:15 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

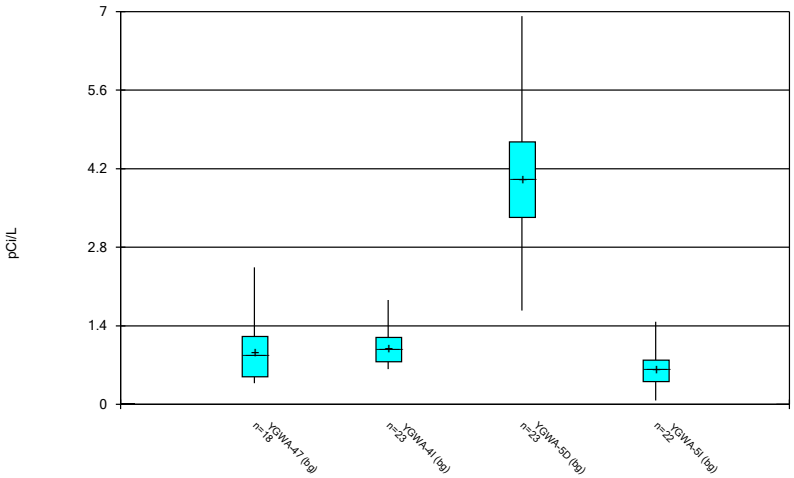
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 5/2/2023 10:15 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

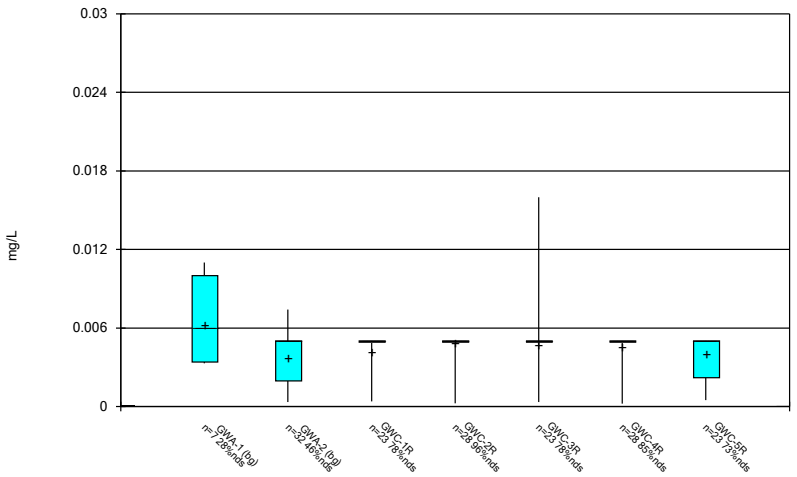
Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 5/2/2023 10:15 AM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot

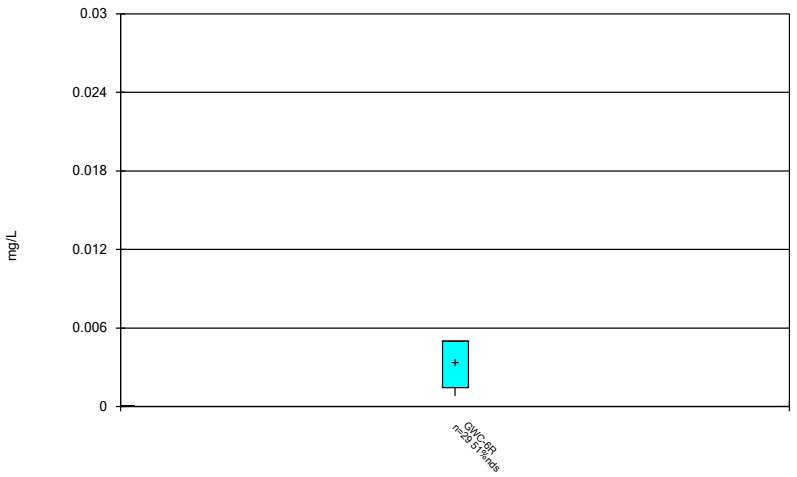


Constituent: Copper Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

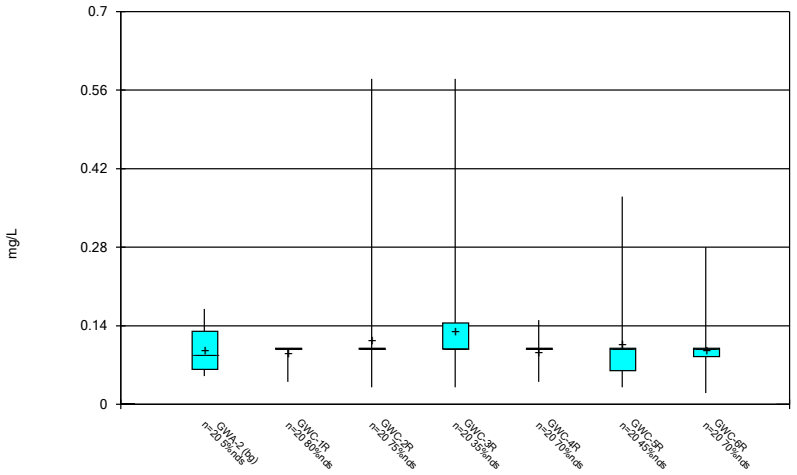


Constituent: Copper Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

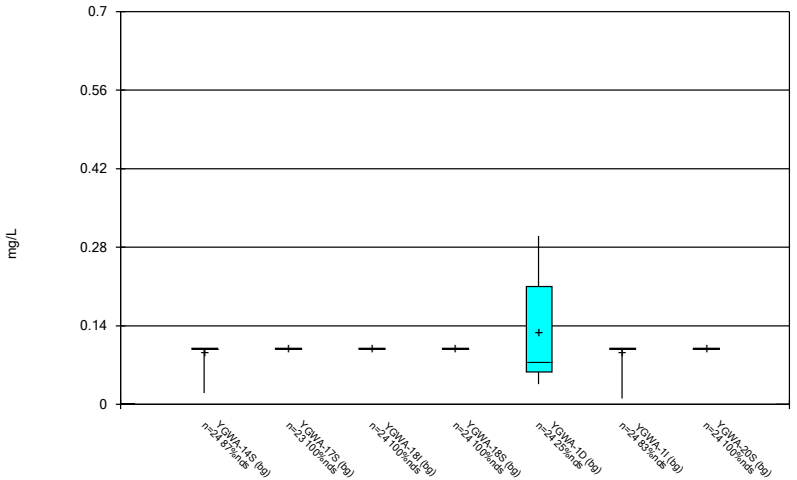


Constituent: Fluoride Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

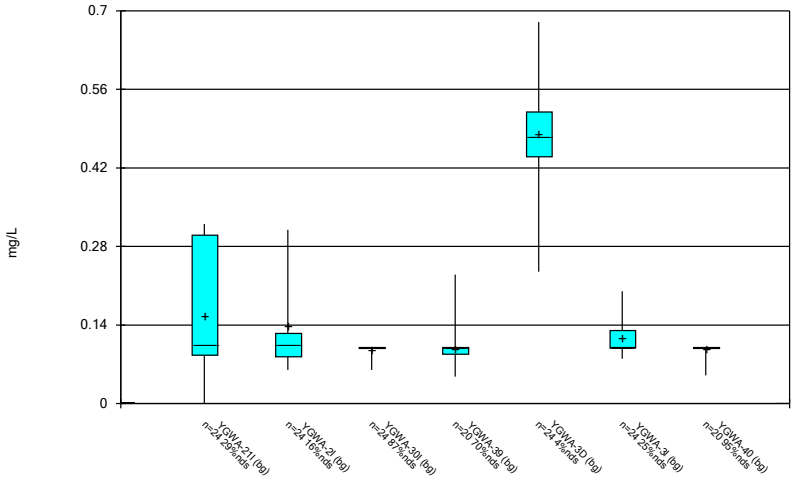
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot

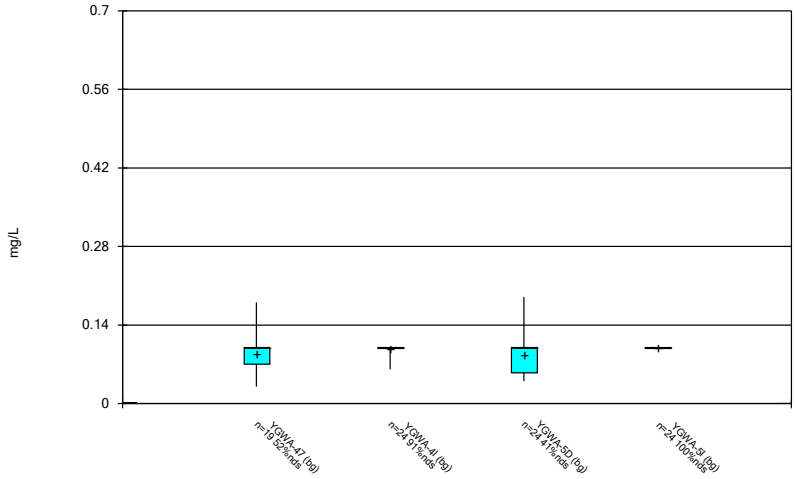


Constituent: Fluoride Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

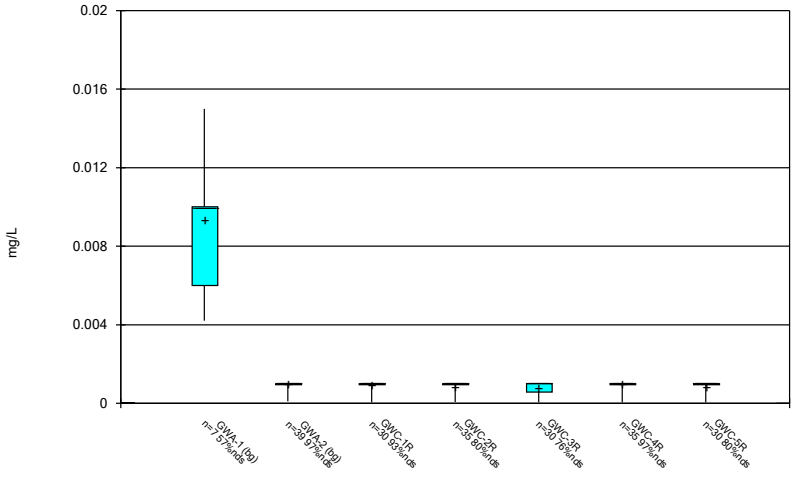


Constituent: Fluoride Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

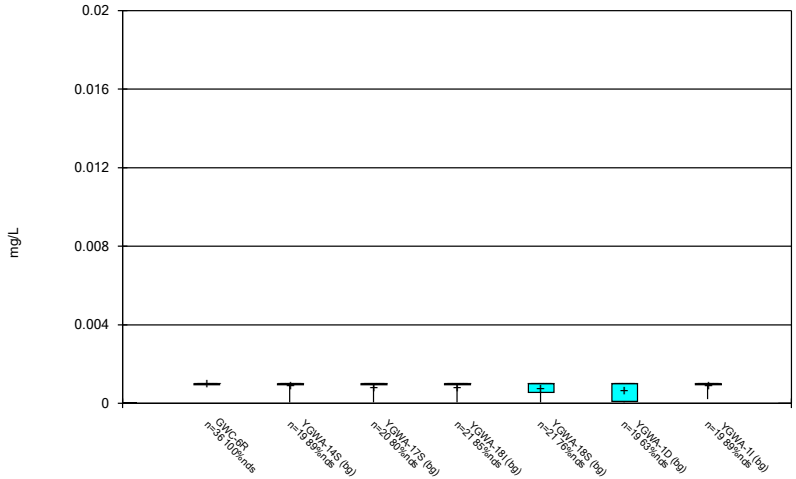


Constituent: Lead Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

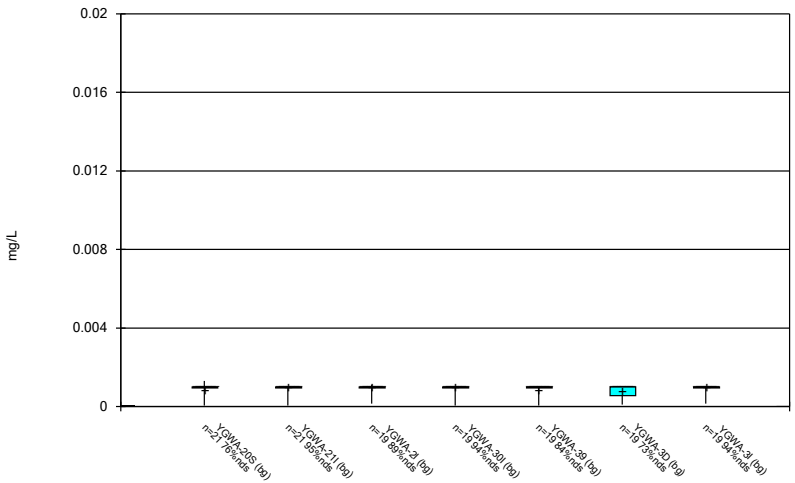
Box & Whiskers Plot



Constituent: Lead Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot

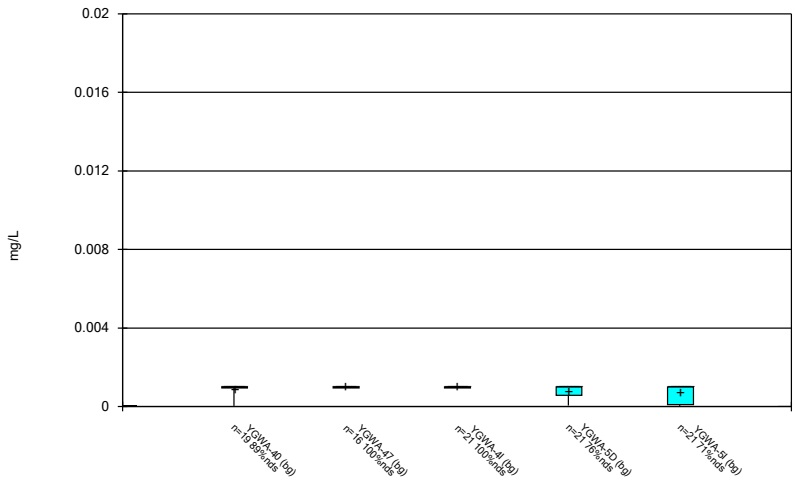


Constituent: Lead Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

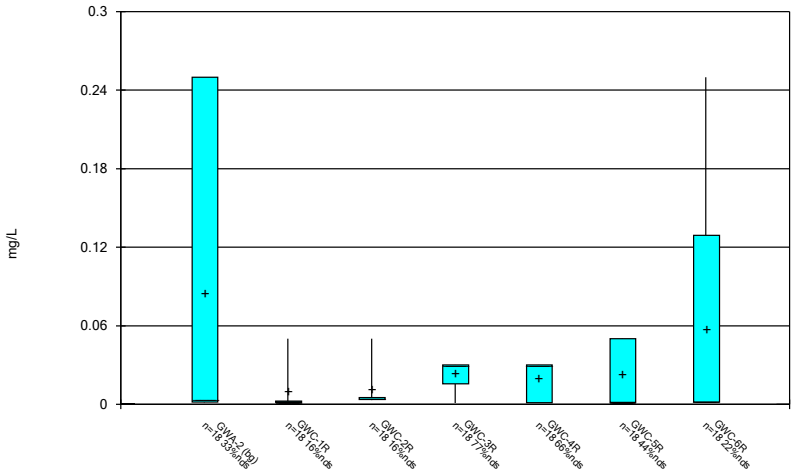


Constituent: Lead Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

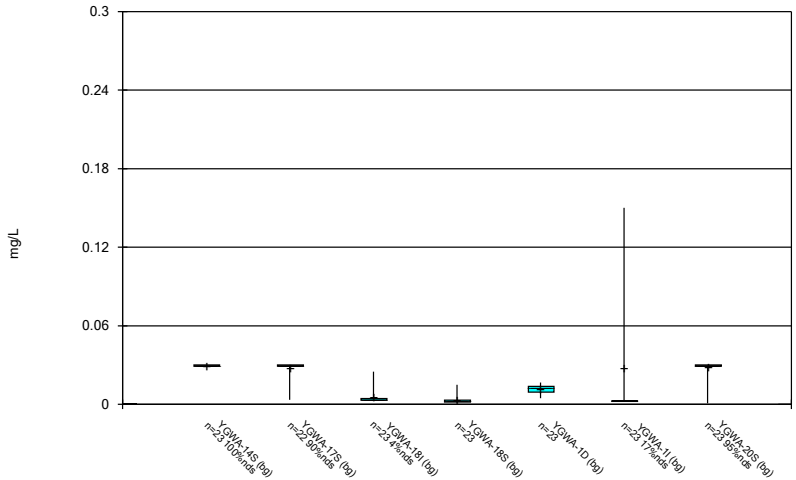


Constituent: Lithium Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

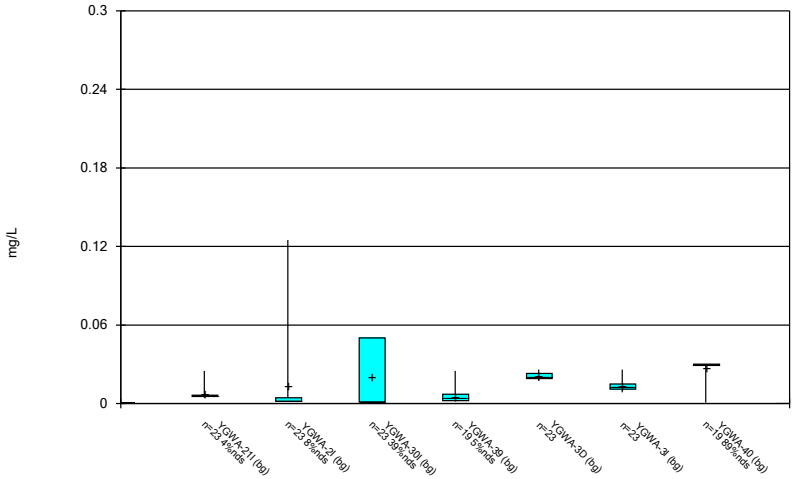
Box & Whiskers Plot



Constituent: Lithium Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot

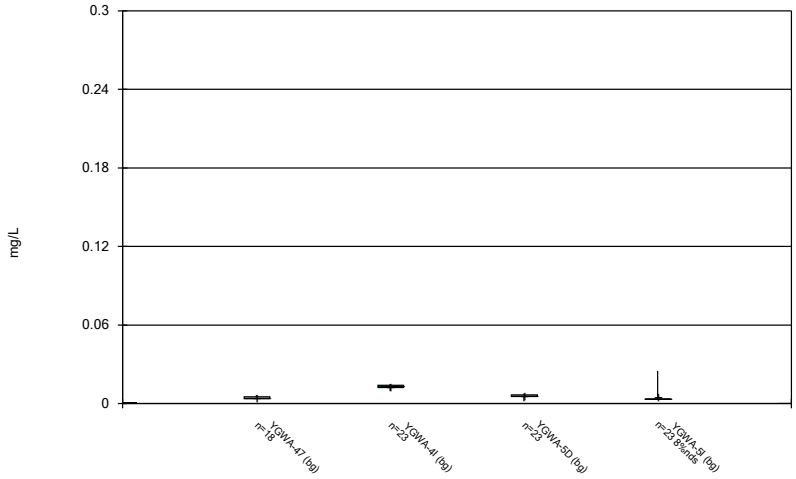


Constituent: Lithium Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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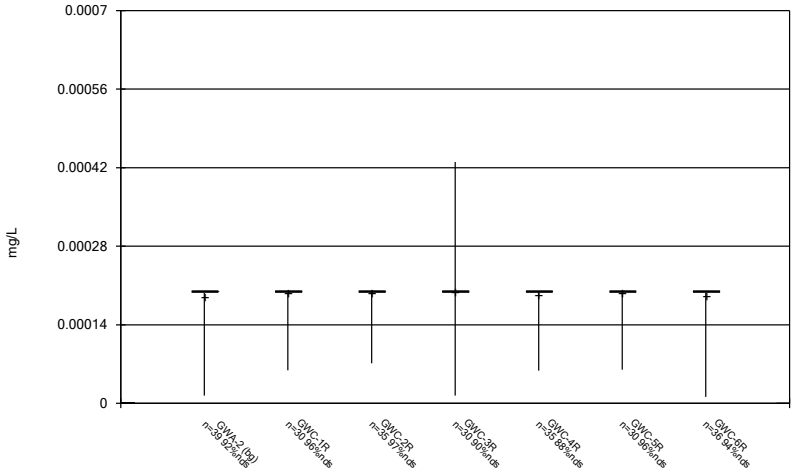
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

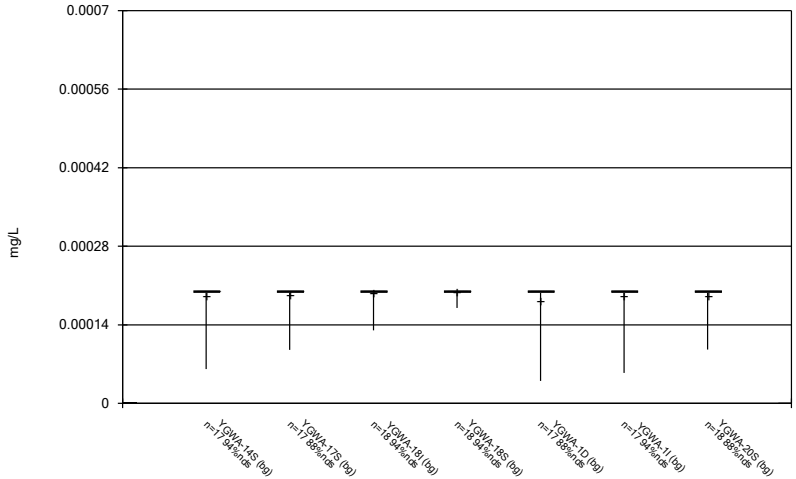


Constituent: Mercury Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

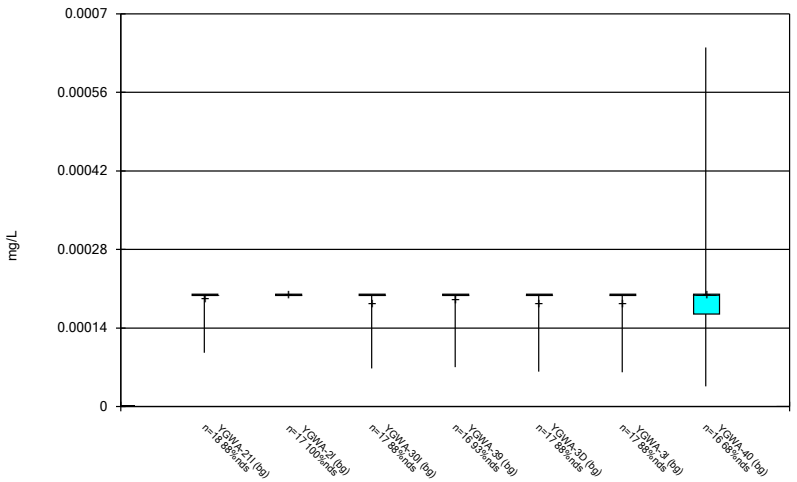
Box & Whiskers Plot



Constituent: Mercury Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot

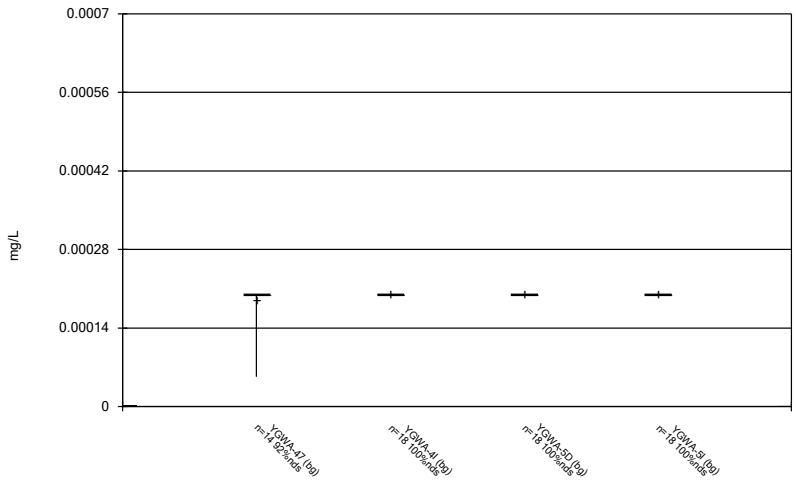


Constituent: Mercury Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

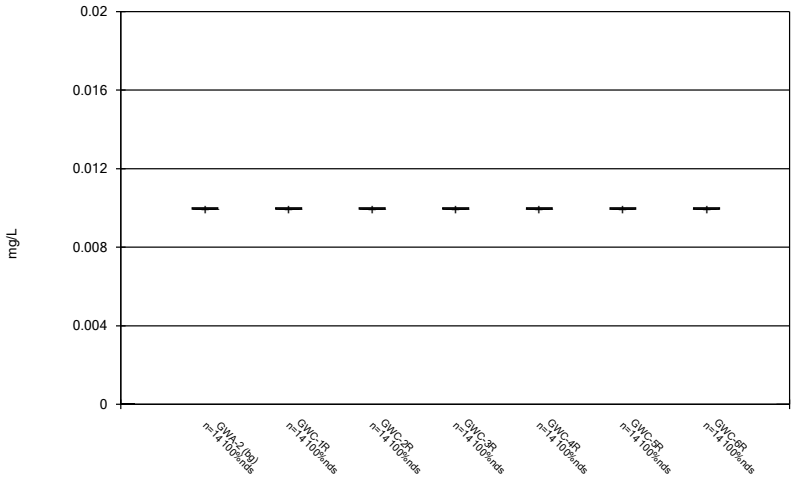


Constituent: Mercury Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

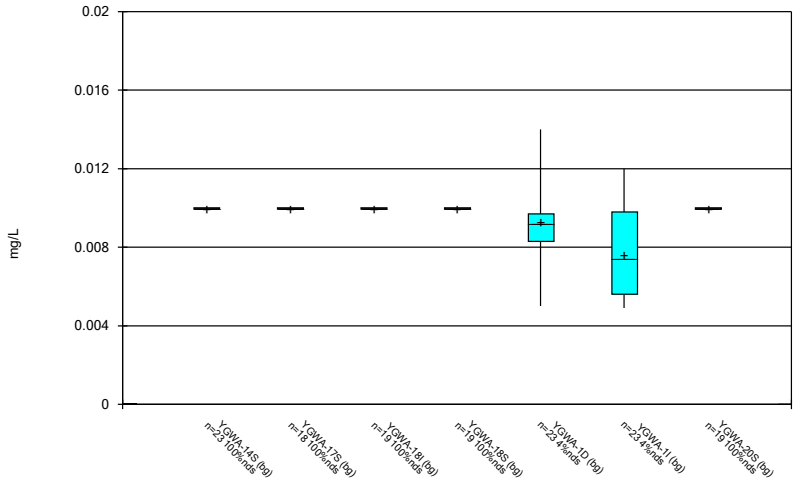


Constituent: Molybdenum Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

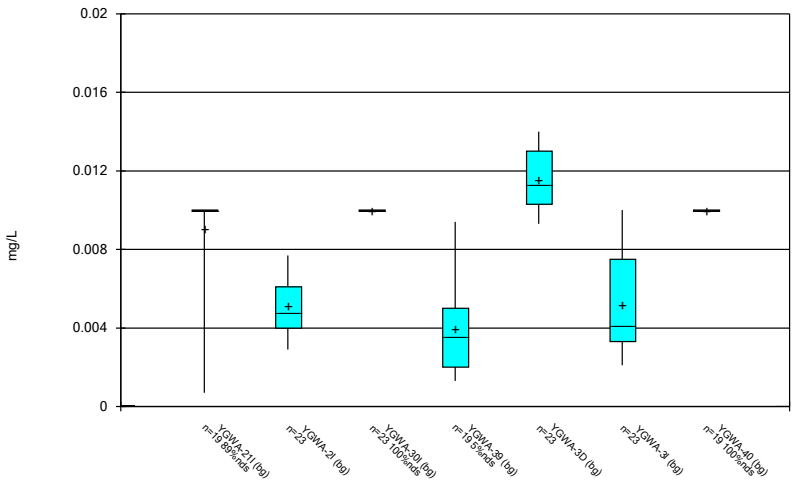
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot

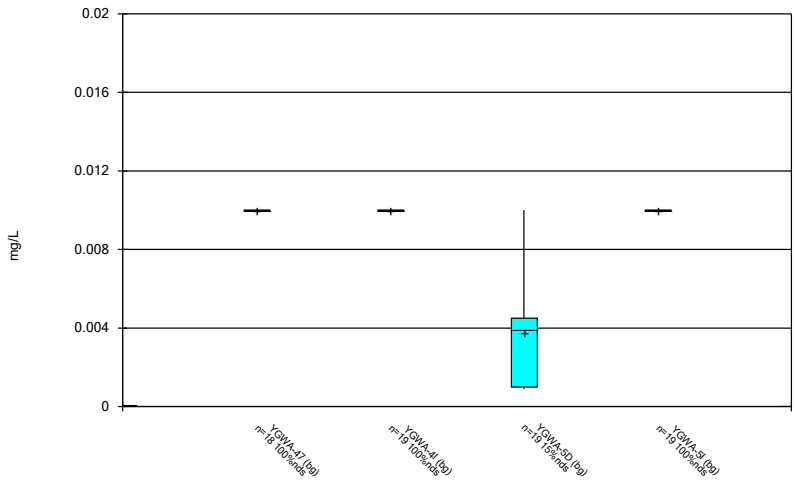


Constituent: Molybdenum Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

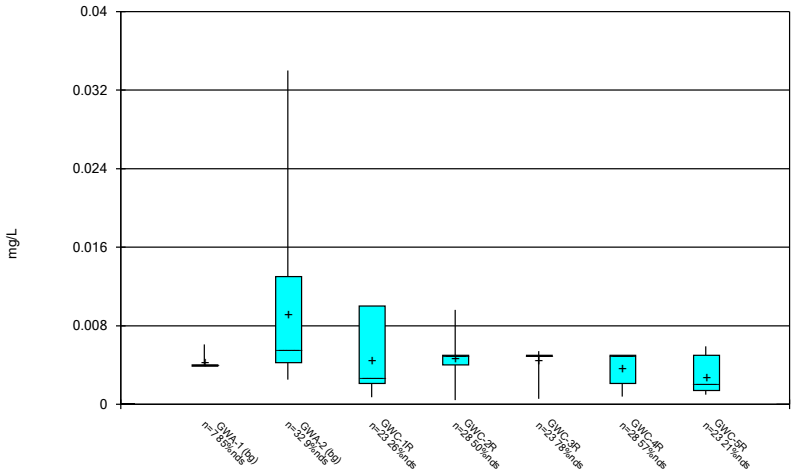


Constituent: Molybdenum Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

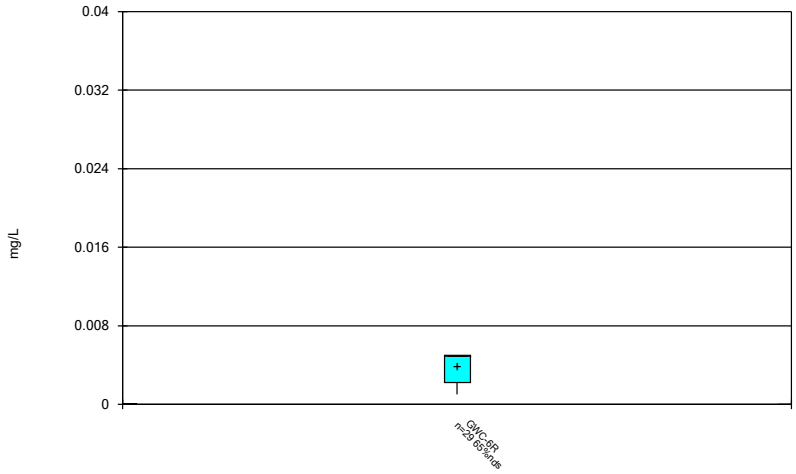


Constituent: Nickel Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

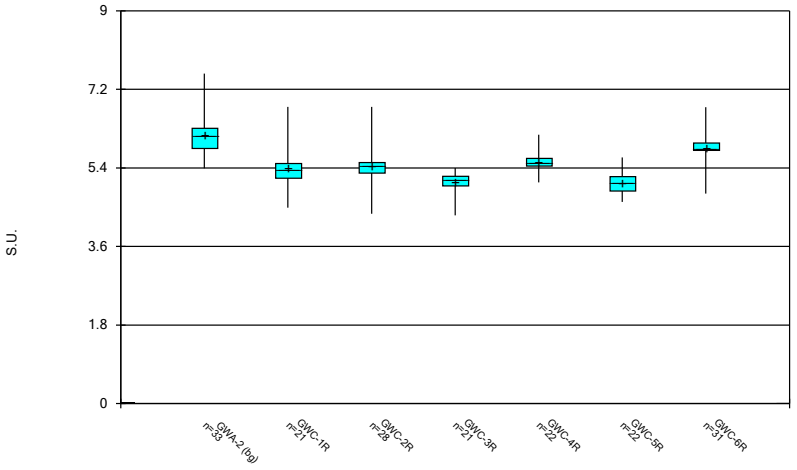
Box & Whiskers Plot



Constituent: Nickel Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot

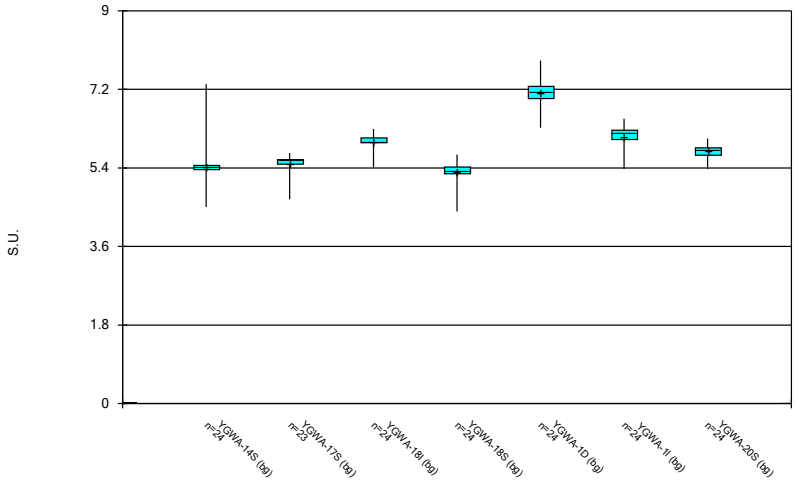


Constituent: pH Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

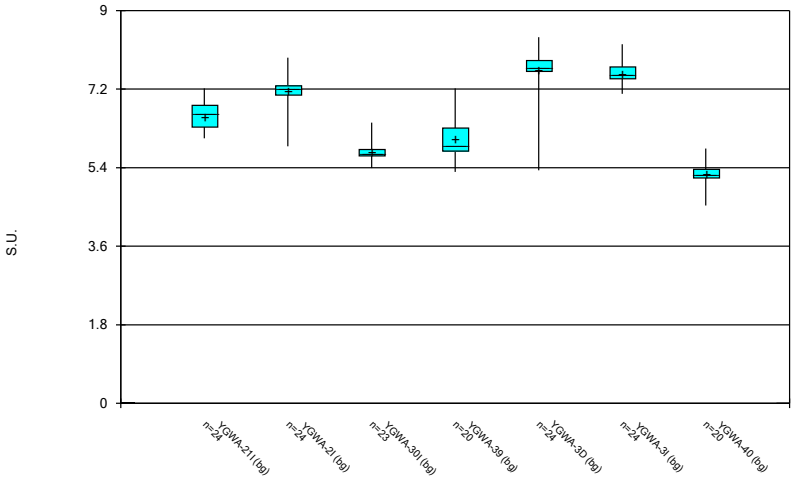


Constituent: pH Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

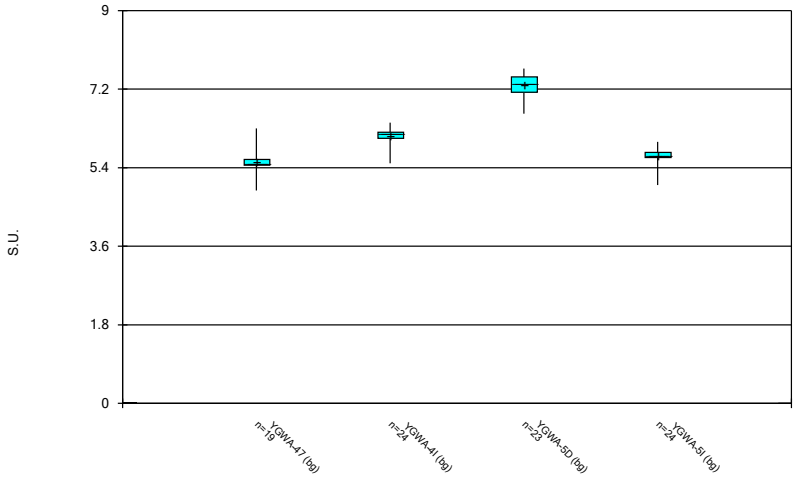


Constituent: pH Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

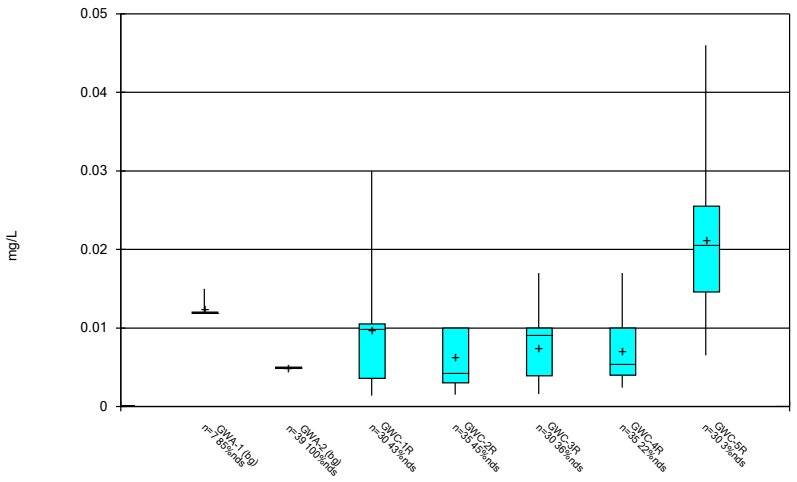
Box & Whiskers Plot



Constituent: pH Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot

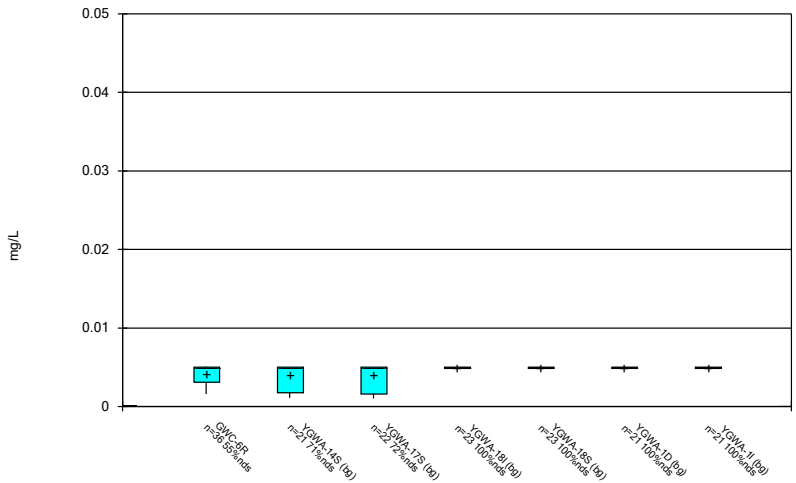


Constituent: Selenium Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

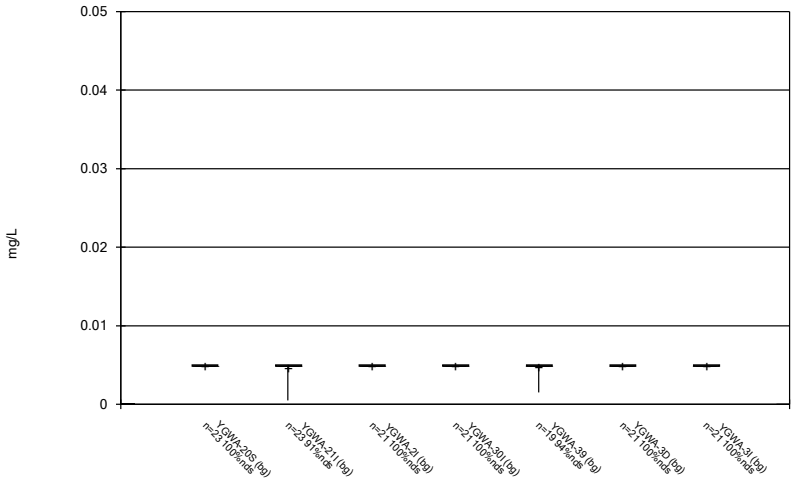


Constituent: Selenium Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

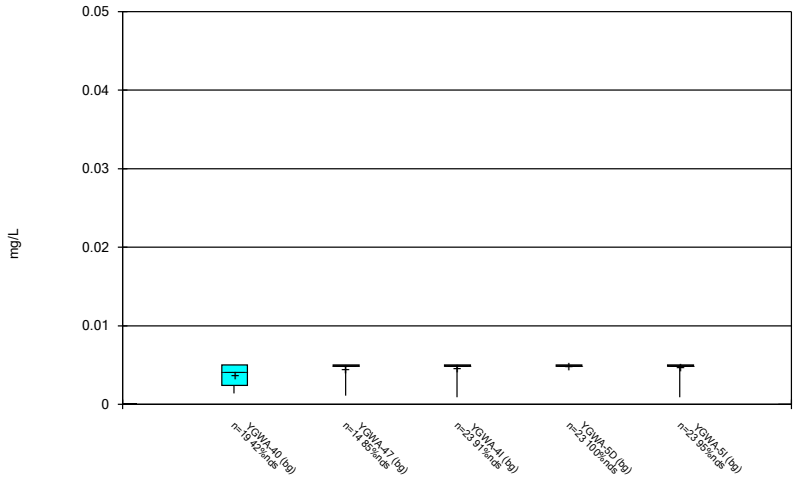


Constituent: Selenium Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

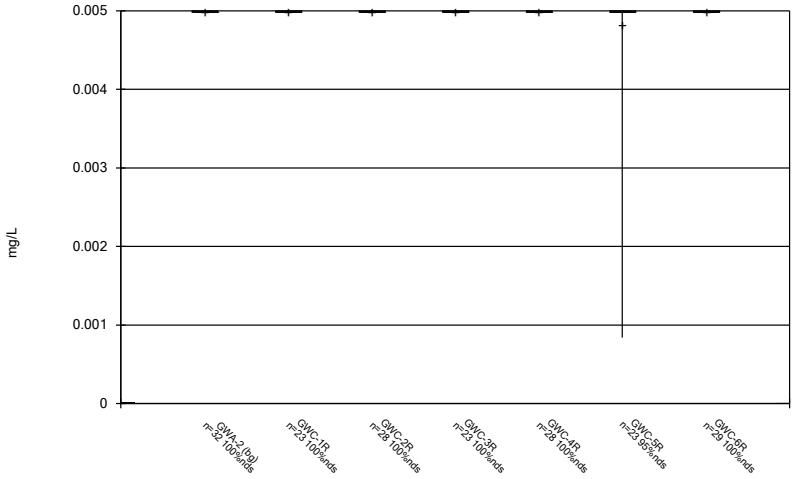
Box & Whiskers Plot



Constituent: Selenium Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot

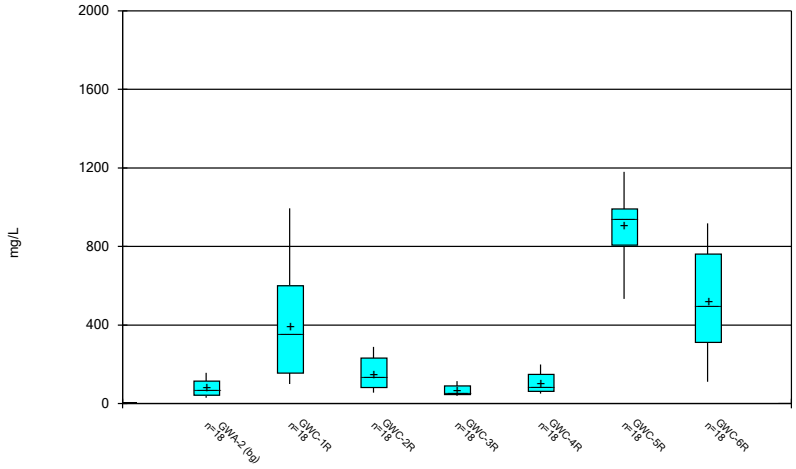


Constituent: Silver Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

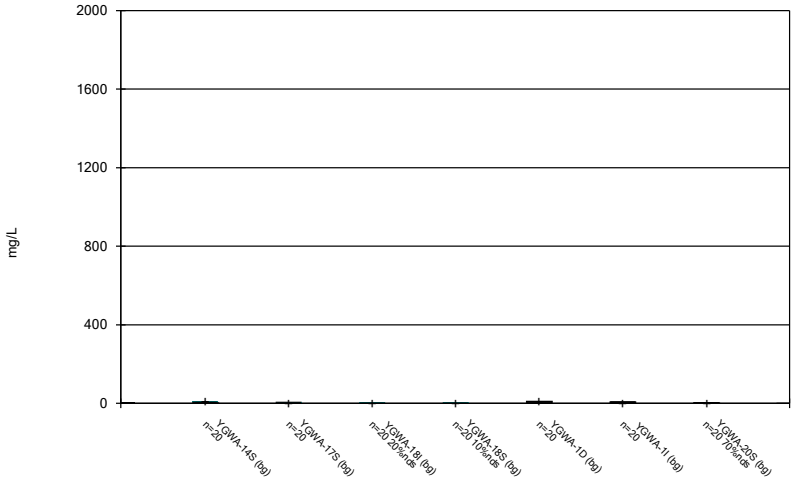


Constituent: Sulfate Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

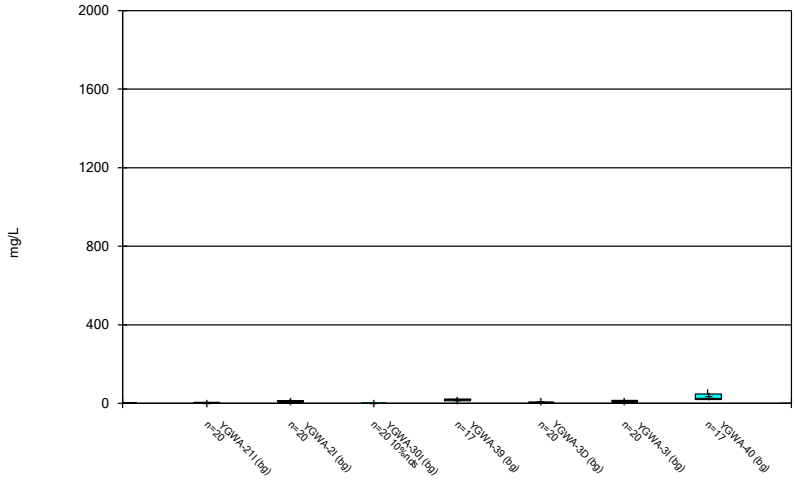


Constituent: Sulfate Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



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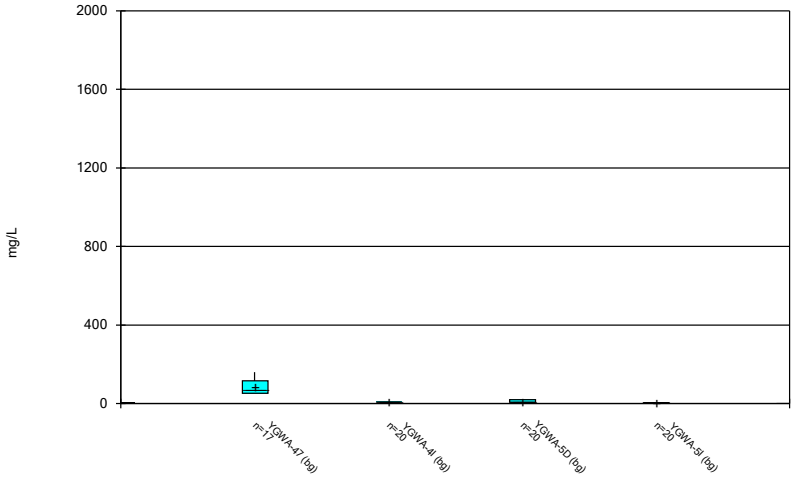
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



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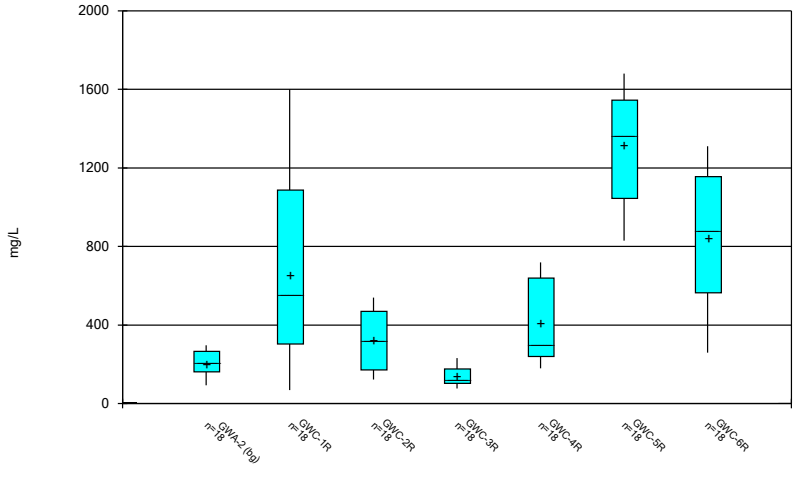
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

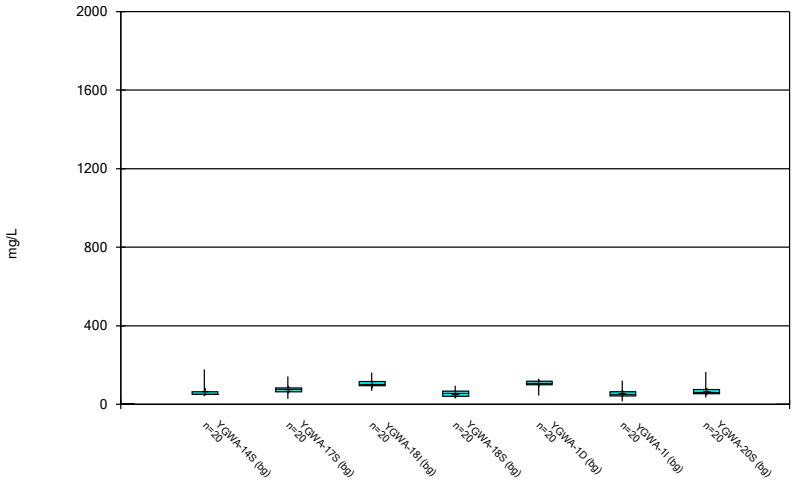


Constituent: TDS Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

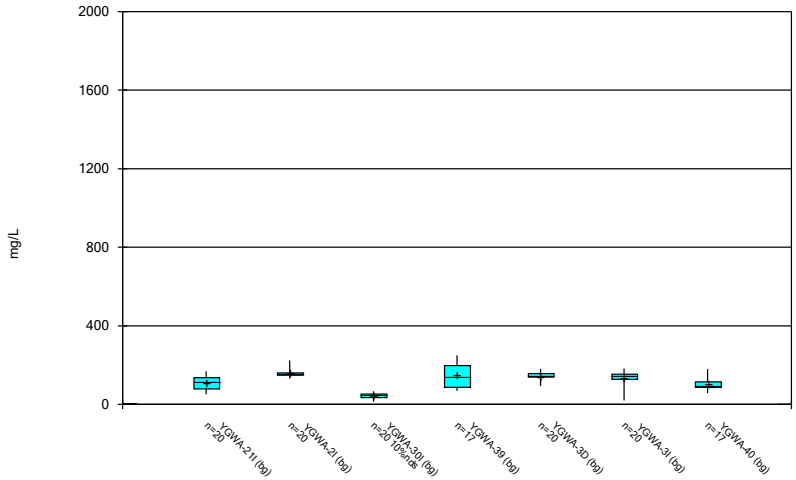


Constituent: TDS Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

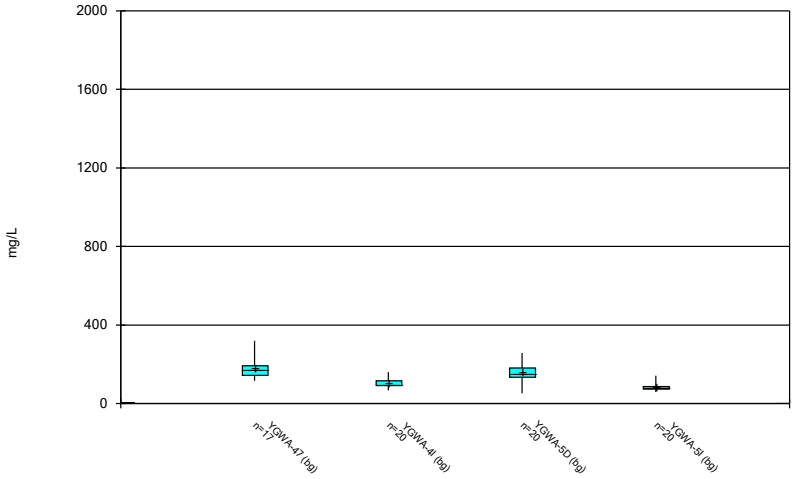


Constituent: TDS Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

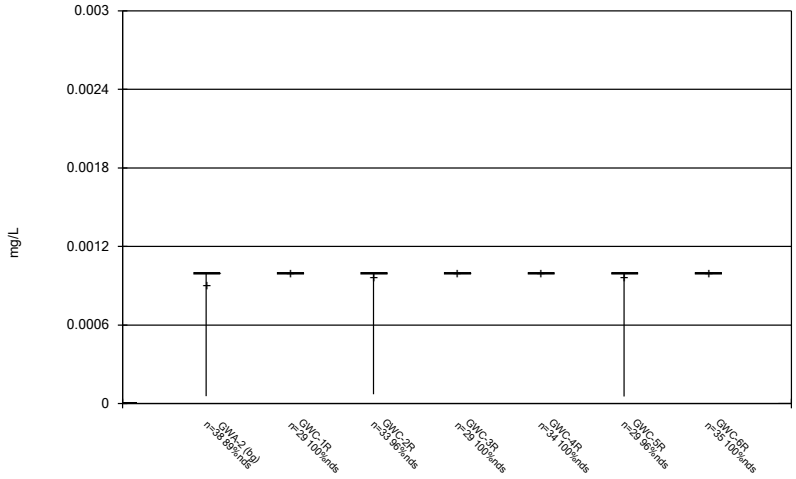


Constituent: TDS Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

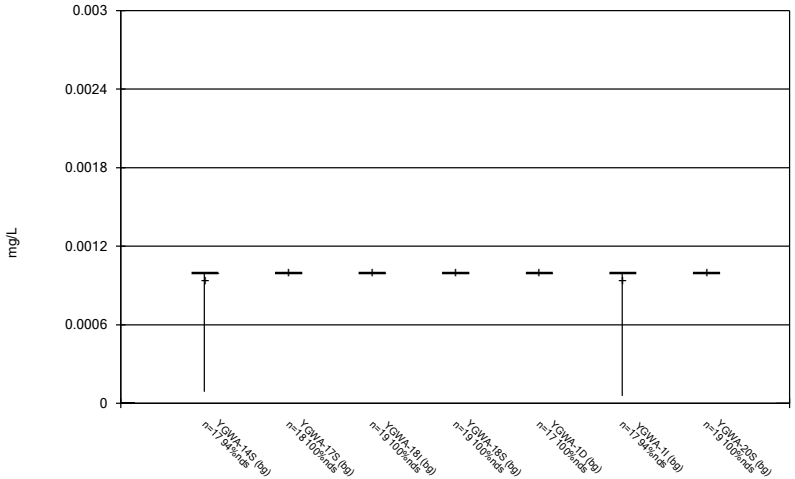


Constituent: Thallium Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

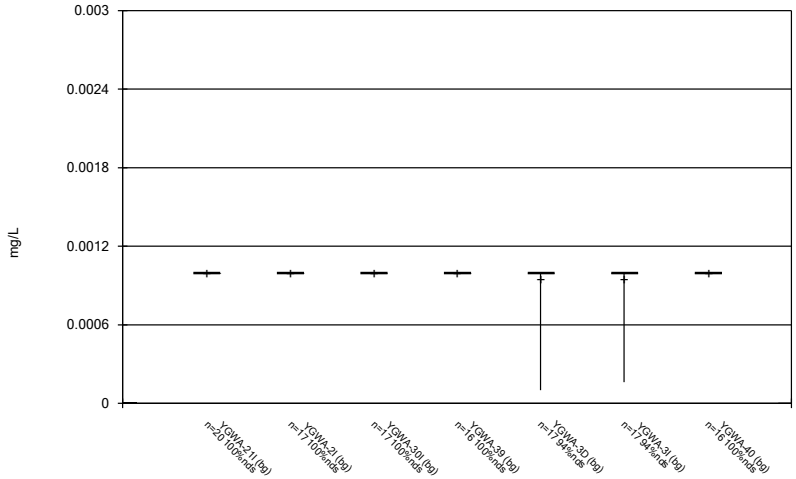


Constituent: Thallium Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

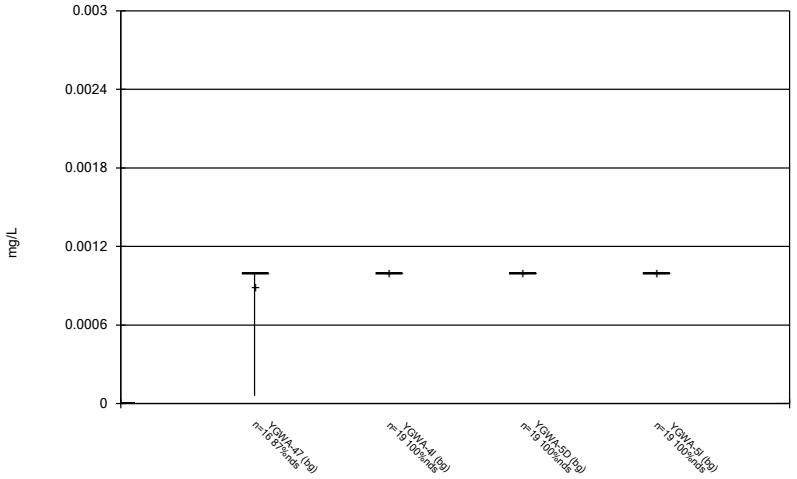
Box & Whiskers Plot



Constituent: Thallium Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot

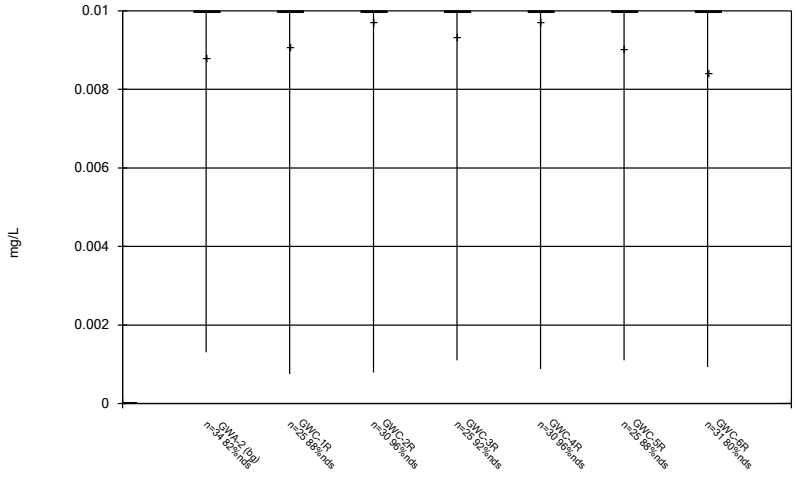


Constituent: Thallium Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

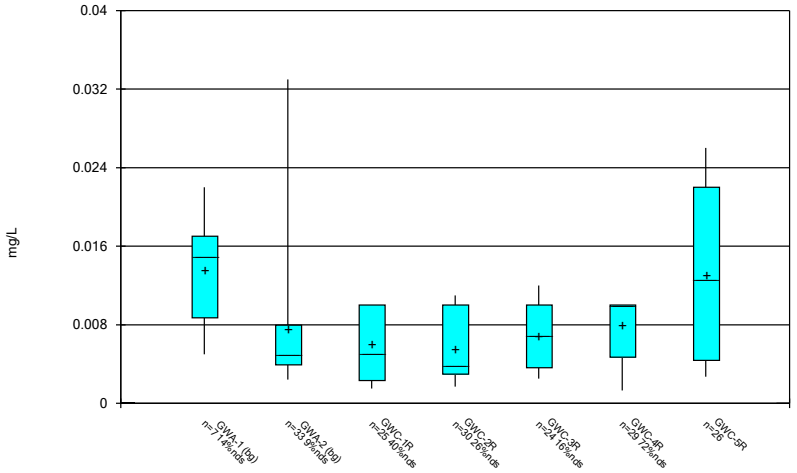


Constituent: Vanadium Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot

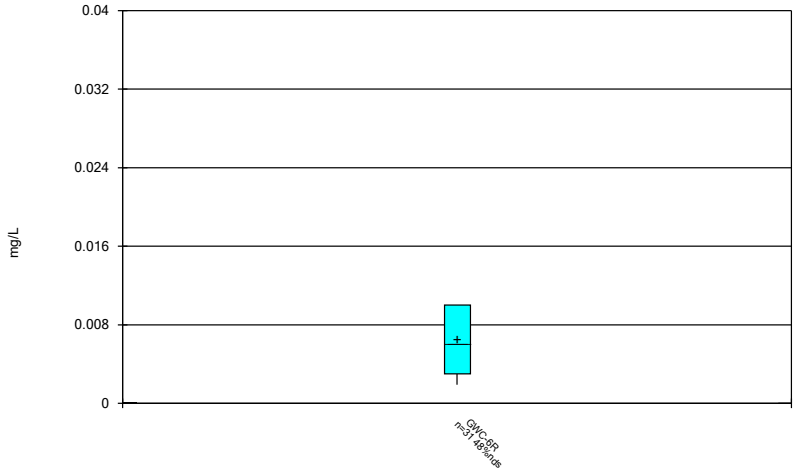


Constituent: Zinc Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Box & Whiskers Plot



Constituent: Zinc Analysis Run 5/2/2023 10:16 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

FIGURE C.

Outlier Summary

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/2/2023, 9:32 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)			
2/8/2022	0.072 (o)			
8/30/2022	0.075 (o)			

FIGURE D.

Appendix I & II Intrawell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/2/2023, 9:42 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Arsenic (mg/L)	**GWC-5R**	**0.005**	**n/a**	**2/7/2023**	**0.0054**	**Yes**	**27**	**n/a**	**n/a**	**48.15**	**n/a**	**n/a**	**0.002502**	**NP Intra (normality) 1 of 2**
Cadmium (mg/L)	**GWC-5R**	**0.00114**	**n/a**	**2/7/2023**	**0.0013**	**Yes**	**27**	**4.6e-10**	**4.5e-10**	**29.63**	**Kaplan-Meier**	**x^3**	**0.0005852**	**Param Intra 1 of 2**
Cobalt (mg/L)	**GWA-2**	**0.006801**	**n/a**	**2/7/2023**	**0.034**	**Yes**	**32**	**0.00327**	**0.001613**	**34.38**	**Kaplan-Meier**	**No**	**0.0005852**	**Param Intra 1 of 2**
Selenium (mg/L)	**GWC-1R**	**0.019**	**n/a**	**2/7/2023**	**0.025**	**Yes**	**27**	**n/a**	**n/a**	**48.15**	**n/a**	**n/a**	**0.002502**	**NP Intra (normality) 1 of 2**

Appendix I & II Intrawell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/2/2023, 9:42 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-2	0.003	n/a	2/7/2023	0.003ND	No	36	n/a	n/a	91.67	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-2R	0.003	n/a	2/8/2023	0.003ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-4R	0.003	n/a	2/8/2023	0.003ND	No	32	n/a	n/a	90.63	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-5R	0.003	n/a	2/7/2023	0.003ND	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-2	0.005	n/a	2/7/2023	0.005ND	No	36	n/a	n/a	94.44	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-1R	0.005	n/a	2/7/2023	0.0047J	No	27	n/a	n/a	77.78	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-2R	0.005	n/a	2/8/2023	0.005ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-3R	0.005	n/a	2/8/2023	0.005ND	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-4R	0.005	n/a	2/8/2023	0.005ND	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	**GWC-5R**	**0.005**	**n/a**	**2/7/2023**	**0.0054**	**Yes**	**27**	**n/a**	**n/a**	**48.15**	**n/a**	**n/a**	**0.002502**	**NP Intra (normality) 1 of 2**
Arsenic (mg/L)	GWC-6R	0.005	n/a	2/7/2023	0.005ND	No	33	n/a	n/a	72.73	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWA-2	0.07655	n/a	2/7/2023	0.034	No	36	0.04995	0.01231	0	None	No	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-1R	0.09209	n/a	2/7/2023	0.051	No	27	0.04909	0.01922	0	None	No	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-2R	0.13	n/a	2/8/2023	0.027	No	32	n/a	n/a	0	n/a	n/a	0.001803	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-3R	0.08517	n/a	2/8/2023	0.0089	No	27	0.3004	0.06239	0	None	x^(1/3)	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-4R	0.06816	n/a	2/8/2023	0.034	No	28	0.3039	0.04699	0	None	x^(1/3)	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-5R	0.058	n/a	2/7/2023	0.011	No	23	n/a	n/a	0	n/a	n/a	0.003415	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-6R	0.09329	n/a	2/7/2023	0.032	No	33	0.04743	0.02102	0	None	No	0.0005852	Param Intra 1 of 2
Beryllium (mg/L)	GWC-1R	0.003	n/a	2/7/2023	0.00037J	No	27	n/a	n/a	48.15	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWC-2R	0.003	n/a	2/8/2023	0.00025J	No	32	n/a	n/a	71.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-3R	0.003	n/a	2/8/2023	0.00033J	No	27	n/a	n/a	25.93	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWC-4R	0.003	n/a	2/8/2023	0.00013J	No	32	n/a	n/a	90.63	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-5R	0.0037	n/a	2/7/2023	0.0025	No	27	n/a	n/a	25.93	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Cadmium (mg/L)	GWA-2	0.0005	n/a	2/7/2023	0.00012J	No	36	n/a	n/a	100	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-1R	0.0025	n/a	2/7/2023	0.0002J	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-2R	0.0005	n/a	2/8/2023	0.0005ND	No	32	n/a	n/a	81.25	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-3R	0.0005	n/a	2/8/2023	0.0005ND	No	27	n/a	n/a	62.96	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-4R	0.0005	n/a	2/8/2023	0.0005ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	**GWC-5R**	**0.00114**	**n/a**	**2/7/2023**	**0.0013**	**Yes**	**27**	**4.6e-10**	**4.5e-10**	**29.63**	**Kaplan-Meier**	**x^3**	**0.0005852**	**Param Intra 1 of 2**
Chromium (mg/L)	GWA-2	0.0084	n/a	2/7/2023	0.005ND	No	36	n/a	n/a	77.78	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-1R	0.01	n/a	2/7/2023	0.002J	No	27	n/a	n/a	44.44	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-2R	0.005	n/a	2/8/2023	0.005ND	No	32	n/a	n/a	84.38	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-3R	0.005	n/a	2/8/2023	0.0017J	No	27	n/a	n/a	29.63	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-4R	0.0062	n/a	2/8/2023	0.0012J	No	32	n/a	n/a	81.25	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-5R	0.01	n/a	2/7/2023	0.0028J	No	27	n/a	n/a	18.52	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-6R	0.01	n/a	2/7/2023	0.0025J	No	33	n/a	n/a	33.33	n/a	n/a	0.001701	NP Intra (normality) 1 of 2
Cobalt (mg/L)	**GWA-2**	**0.006801**	**n/a**	**2/7/2023**	**0.034**	**Yes**	**32**	**0.00327**	**0.001613**	**34.38**	**Kaplan-Meier**	**No**	**0.0005852**	**Param Intra 1 of 2**
Cobalt (mg/L)	GWC-1R	0.015	n/a	2/7/2023	0.00086J	No	27	n/a	n/a	37.04	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Cobalt (mg/L)	GWC-2R	0.04612	n/a	2/8/2023	0.00052J	No	32	0.02126	0.01136	3.125	None	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-3R	0.011	n/a	2/8/2023	0.00085J	No	27	n/a	n/a	74.07	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-4R	0.006272	n/a	2/8/2023	0.0006J	No	32	0.002253	0.001836	28.13	Kaplan-Meier	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-5R	0.005	n/a	2/7/2023	0.00085J	No	27	n/a	n/a	81.48	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-6R	0.005	n/a	2/7/2023	0.005ND	No	33	n/a	n/a	96.97	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-2	0.0074	n/a	2/7/2023	0.005ND	No	29	n/a	n/a	44.83	n/a	n/a	0.002172	NP Intra (normality) 1 of 2
Copper (mg/L)	GWC-1R	0.005	n/a	2/7/2023	0.005ND	No	20	n/a	n/a	80	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-2R	0.005	n/a	2/8/2023	0.005ND	No	25	n/a	n/a	96	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-3R	0.016	n/a	2/8/2023	0.005ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-4R	0.005	n/a	2/8/2023	0.005ND	No	25	n/a	n/a	84	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-5R	0.005	n/a	2/7/2023	0.005ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-6R	0.005	n/a	2/7/2023	0.005ND	No	26	n/a	n/a	50	n/a	n/a	0.002667	NP Intra (normality) 1 of 2
Lead (mg/L)	GWA-2	0.001	n/a	2/7/2023	0.001ND	No	36	n/a	n/a	97.22	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-1R	0.001	n/a	2/7/2023	0.001ND	No	27	n/a	n/a	92.59	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-2R	0.001	n/a	2/8/2023	0.001ND	No	32	n/a	n/a	78.13	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-3R	0.001	n/a	2/8/2023	0.001ND	No	27	n/a	n/a	74.07	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-4R	0.001	n/a	2/8/2023	0.001ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-5R	0.001	n/a	2/7/2023	0.001ND	No	27	n/a	n/a	77.78	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 5/2/2023, 9:42 AM

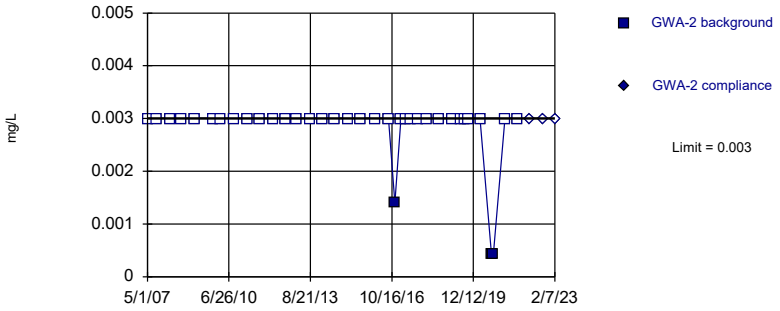
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Mercury (mg/L)	GWA-2	0.0002	n/a	2/7/2023	0.00013J	No	36	n/a	n/a	94.44	n/a	n/a	0.001429	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-1R	0.0002	n/a	2/7/2023	0.0002ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-2R	0.0002	n/a	2/8/2023	0.0002ND	No	32	n/a	n/a	96.88	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-3R	0.00043	n/a	2/8/2023	0.0002ND	No	27	n/a	n/a	88.89	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-4R	0.0002	n/a	2/8/2023	0.0002J	No	32	n/a	n/a	93.75	n/a	n/a	0.001803	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-5R	0.0002	n/a	2/7/2023	0.0002ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Mercury (mg/L)	GWC-6R	0.0002	n/a	2/7/2023	0.0002ND	No	33	n/a	n/a	93.94	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWA-2	0.03314	n/a	2/7/2023	0.0096	No	29	-5.033	0.7342	10.34	None	ln(x)	0.0005852	Param Intra 1 of 2
Nickel (mg/L)	GWC-1R	0.008772	n/a	2/7/2023	0.0028J	No	20	-6.236	0.6381	30	Kaplan-Meier	ln(x)	0.0005852	Param Intra 1 of 2
Nickel (mg/L)	GWC-2R	0.0096	n/a	2/8/2023	0.005ND	No	25	n/a	n/a	44	n/a	n/a	0.002832	NP Intra (normality) 1 of 2
Nickel (mg/L)	GWC-3R	0.0054	n/a	2/8/2023	0.005ND	No	20	n/a	n/a	75	n/a	n/a	0.004291	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-4R	0.005	n/a	2/8/2023	0.005ND	No	25	n/a	n/a	60	n/a	n/a	0.002832	NP Intra (NDs) 1 of 2
Nickel (mg/L)	GWC-5R	0.005199	n/a	2/7/2023	0.005ND	No	20	0.0448	0.01162	20	Kaplan-Meier	sqrt(x)	0.0005852	Param Intra 1 of 2
Nickel (mg/L)	GWC-6R	0.005	n/a	2/7/2023	0.005ND	No	26	n/a	n/a	65.38	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Selenium (mg/L)	**GWC-1R**	**0.019**	**n/a**	**2/7/2023**	**0.025**	**Yes**	**27**	**n/a**	**n/a**	**48.15**	**n/a**	**n/a**	**0.002502**	**NP Intra (normality) 1 of 2**
Selenium (mg/L)	GWC-2R	0.01	n/a	2/8/2023	0.0043J	No	32	n/a	n/a	50	n/a	n/a	0.001803	NP Intra (normality) 1 of 2
Selenium (mg/L)	GWC-3R	0.017	n/a	2/8/2023	0.002J	No	27	n/a	n/a	40.74	n/a	n/a	0.002502	NP Intra (normality) 1 of 2
Selenium (mg/L)	GWC-4R	0.01445	n/a	2/8/2023	0.0029J	No	32	0.07177	0.02213	25	Kaplan-Meier	sqrt(x)	0.0005852	Param Intra 1 of 2
Selenium (mg/L)	GWC-5R	0.0414	n/a	2/7/2023	0.02	No	27	0.02145	0.008917	3.704	None	No	0.0005852	Param Intra 1 of 2
Selenium (mg/L)	GWC-6R	0.0051	n/a	2/7/2023	0.005ND	No	33	n/a	n/a	51.52	n/a	n/a	0.001701	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWA-2	0.001	n/a	2/7/2023	0.001ND	No	35	n/a	n/a	88.57	n/a	n/a	0.001497	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-2R	0.001	n/a	2/8/2023	0.001ND	No	30	n/a	n/a	96.67	n/a	n/a	0.002008	NP Intra (NDs) 1 of 2
Thallium (mg/L)	GWC-5R	0.001	n/a	2/7/2023	0.001ND	No	26	n/a	n/a	96.15	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWA-2	0.01	n/a	2/7/2023	0.01ND	No	31	n/a	n/a	83.87	n/a	n/a	0.001905	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-1R	0.01	n/a	2/7/2023	0.01ND	No	22	n/a	n/a	86.36	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-2R	0.01	n/a	2/8/2023	0.01ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-3R	0.01	n/a	2/8/2023	0.01ND	No	22	n/a	n/a	90.91	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-4R	0.01	n/a	2/8/2023	0.01ND	No	27	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-5R	0.01	n/a	2/7/2023	0.01ND	No	22	n/a	n/a	86.36	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Vanadium (mg/L)	GWC-6R	0.01	n/a	2/7/2023	0.01ND	No	28	n/a	n/a	78.57	n/a	n/a	0.002337	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWA-2	0.033	n/a	2/7/2023	0.0072J	No	30	n/a	n/a	10	n/a	n/a	0.002008	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-1R	0.01	n/a	2/7/2023	0.01ND	No	22	n/a	n/a	31.82	n/a	n/a	0.003707	NP Intra (normality) 1 of 2
Zinc (mg/L)	GWC-2R	0.01022	n/a	2/8/2023	0.01ND	No	27	-5.718	0.507	18.52	Kaplan-Meier	ln(x)	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-3R	0.01375	n/a	2/8/2023	0.01ND	No	21	0.006395	0.003152	9.524	None	No	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-4R	0.01	n/a	2/8/2023	0.01ND	No	26	n/a	n/a	69.23	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-5R	0.02878	n/a	2/7/2023	0.023	No	23	0.01173	0.007426	0	None	No	0.0005852	Param Intra 1 of 2
Zinc (mg/L)	GWC-6R	0.01	n/a	2/7/2023	0.01ND	No	28	n/a	n/a	42.86	n/a	n/a	0.002337	NP Intra (normality) 1 of 2

Sanitas™ v.9.6.37 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 36 background values. 91.67% NDs. Well-constituent pair annual alpha = 0.002856. Individual comparison alpha = 0.001429 (1 of 2).

Constituent: Antimony Analysis Run 5/2/2023 9:37 AM View: Appendix I & II

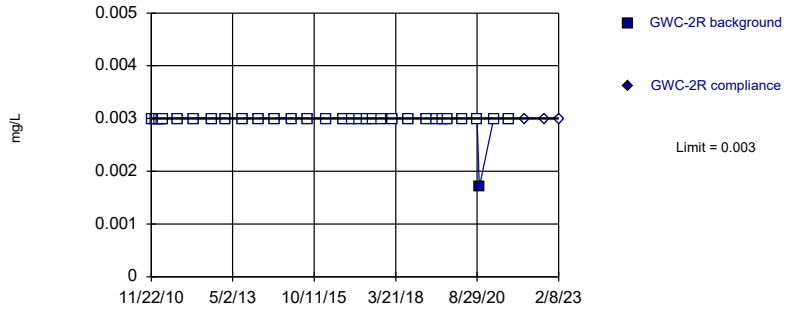
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Antimony Analysis Run 5/2/2023 9:37 AM View: Appendix I & II

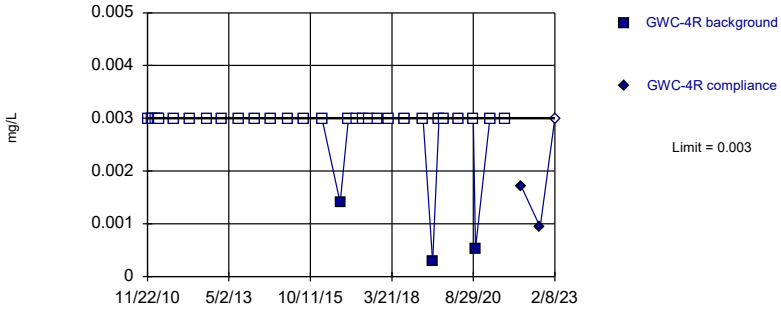
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 32 background values. 90.63% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Antimony Analysis Run 5/2/2023 9:37 AM View: Appendix I & II

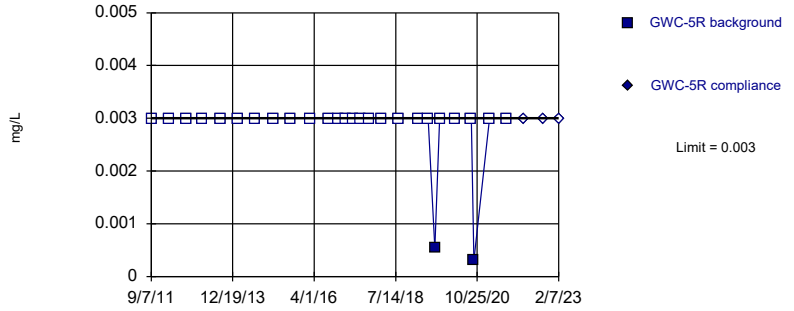
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 27 background values. 92.59% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Antimony Analysis Run 5/2/2023 9:37 AM View: Appendix I & II

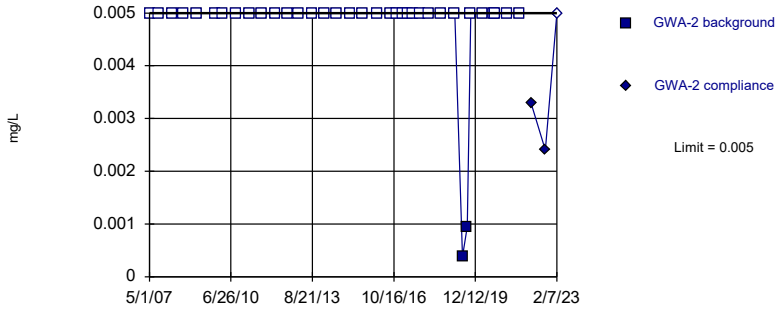
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 36 background values. 94.44% NDs. Well-constituent pair annual alpha = 0.002856. Individual comparison alpha = 0.001429 (1 of 2).

Constituent: Arsenic Analysis Run 5/2/2023 9:37 AM View: Appendix I & II

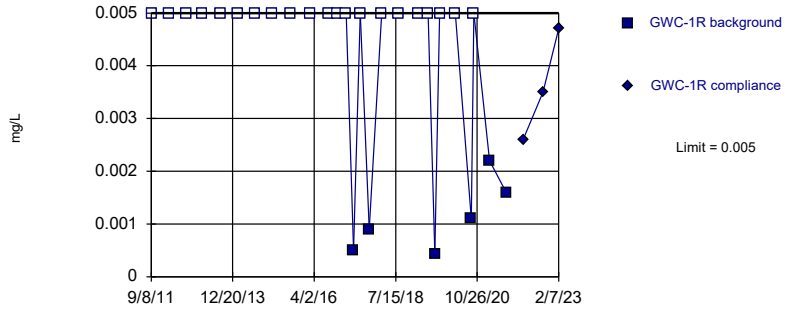
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 27 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Arsenic Analysis Run 5/2/2023 9:37 AM View: Appendix I & II

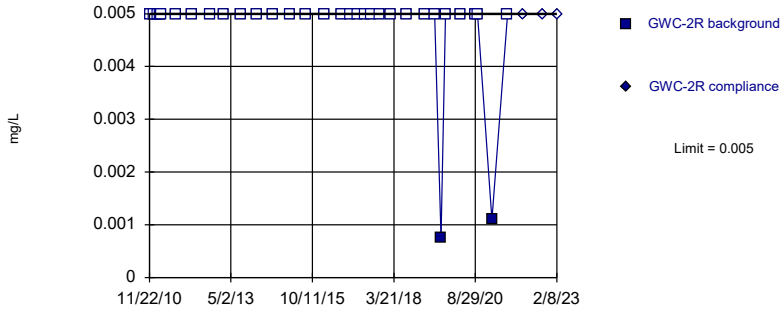
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Arsenic Analysis Run 5/2/2023 9:37 AM View: Appendix I & II

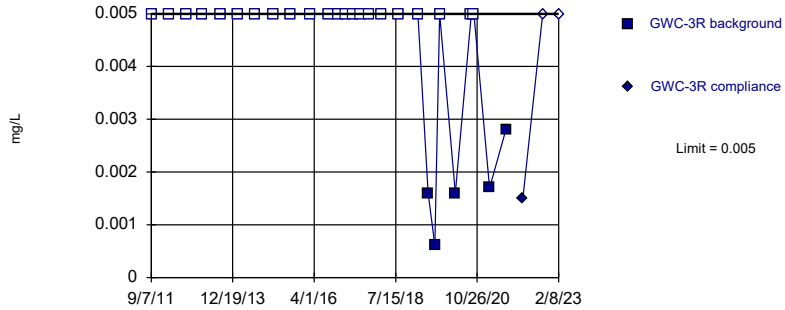
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 27 background values. 81.48% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Arsenic Analysis Run 5/2/2023 9:37 AM View: Appendix I & II

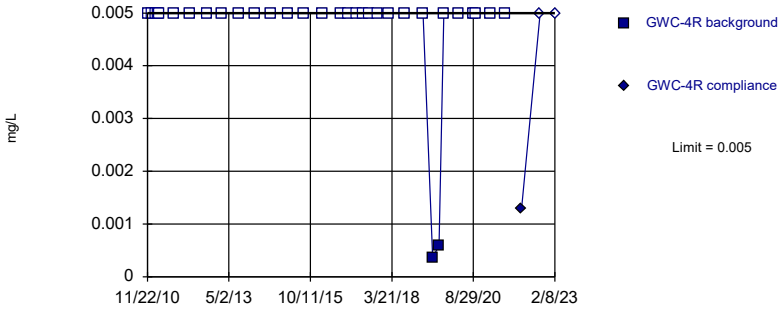
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Arsenic Analysis Run 5/2/2023 9:37 AM View: Appendix I & II

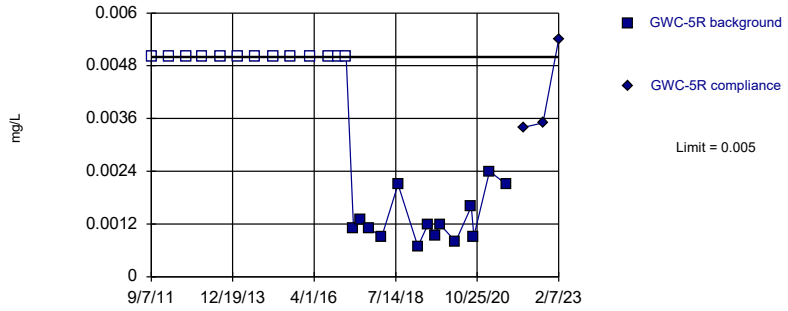
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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 27 background values. 48.15% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Arsenic Analysis Run 5/2/2023 9:37 AM View: Appendix I & II

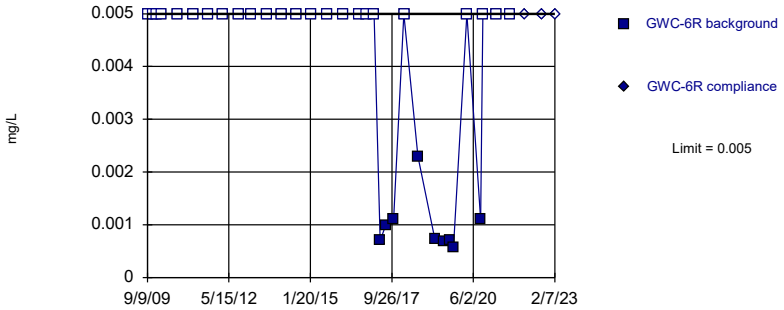
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 33 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.003399. Individual comparison alpha = 0.001701 (1 of 2).

Constituent: Arsenic Analysis Run 5/2/2023 9:37 AM View: Appendix I & II

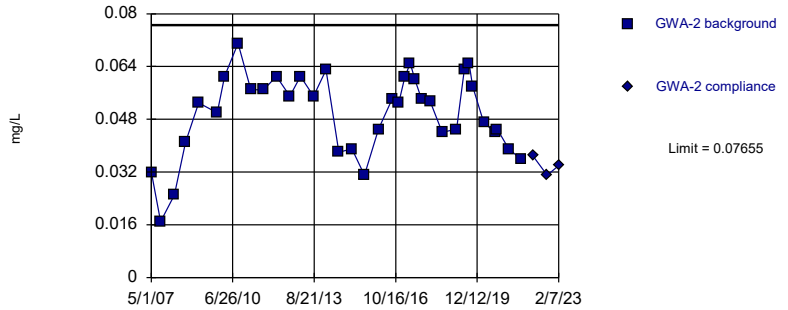
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.04995, Std. Dev.=0.01231, n=36. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9537, critical = 0.912. Kappa = 2.161 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

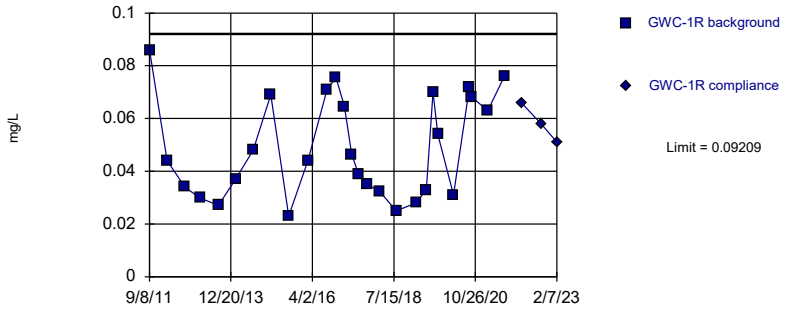
Constituent: Barium Analysis Run 5/2/2023 9:37 AM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.04909, Std. Dev.=0.01922, n=27. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9082, critical = 0.894. Kappa = 2.237 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

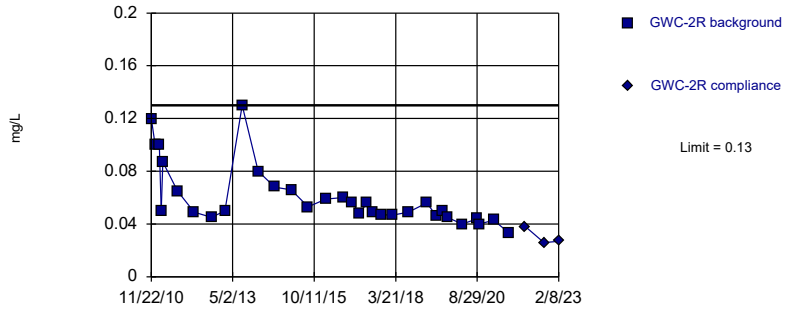
Constituent: Barium Analysis Run 5/2/2023 9:37 AM View: Appendix I & II

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 32 background values. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

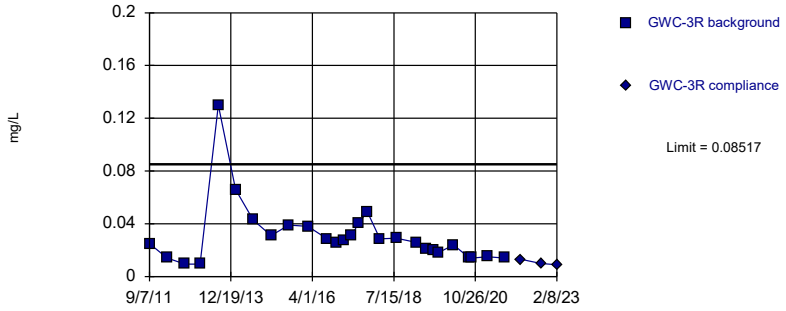
Constituent: Barium Analysis Run 5/2/2023 9:37 AM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=0.3004, Std. Dev.=0.06239, n=27. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9031, critical = 0.894. Kappa = 2.237 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

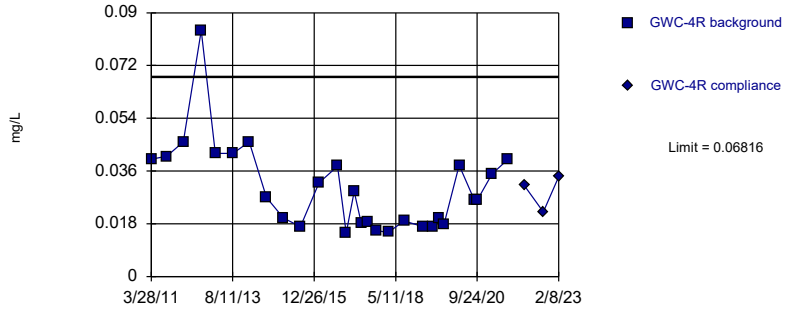
Constituent: Barium Analysis Run 5/2/2023 9:37 AM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube root transformation): Mean=0.3039, Std. Dev.=0.04699, n=28. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9014, critical = 0.896. Kappa = 2.226 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

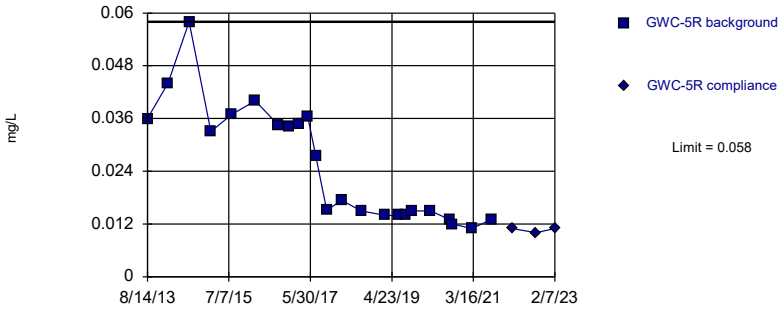
Constituent: Barium Analysis Run 5/2/2023 9:37 AM View: Appendix I & II

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).

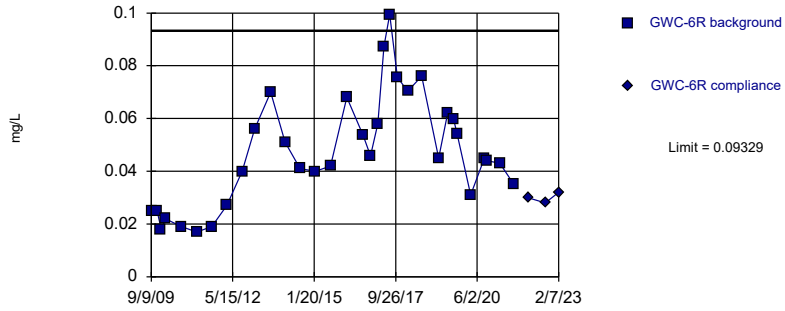
Constituent: Barium Analysis Run 5/2/2023 9:37 AM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.04743, Std. Dev.=0.02102, n=33. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.958, critical = 0.906. Kappa = 2.181 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

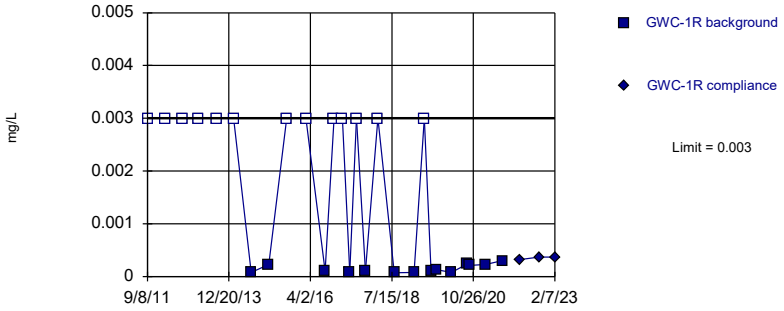
Constituent: Barium Analysis Run 5/2/2023 9:37 AM View: Appendix I & II

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 27 background values. 48.15% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

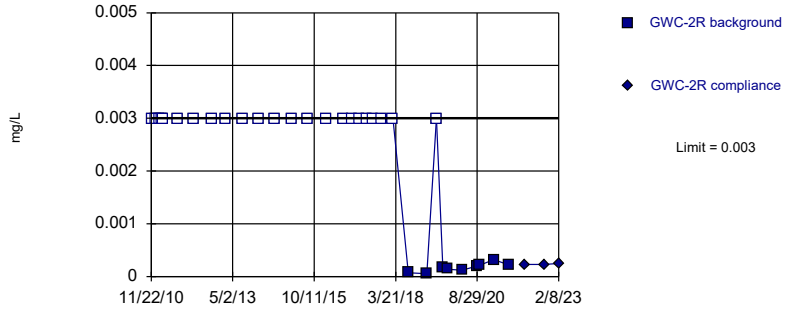
Constituent: Beryllium Analysis Run 5/2/2023 9:37 AM View: Appendix I & II

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 32 background values. 71.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Beryllium Analysis Run 5/2/2023 9:37 AM View: Appendix I & II

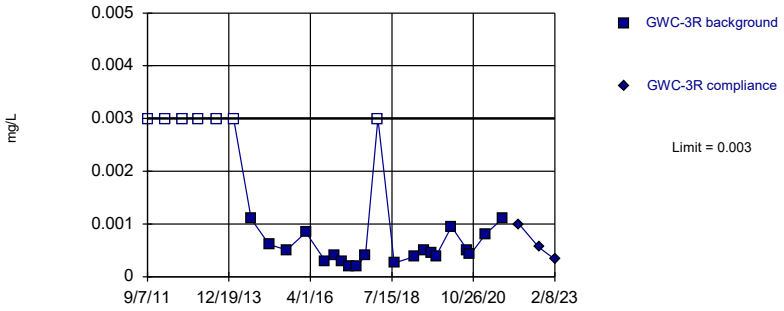
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 25.93% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Beryllium Analysis Run 5/2/2023 9:37 AM View: Appendix I & II

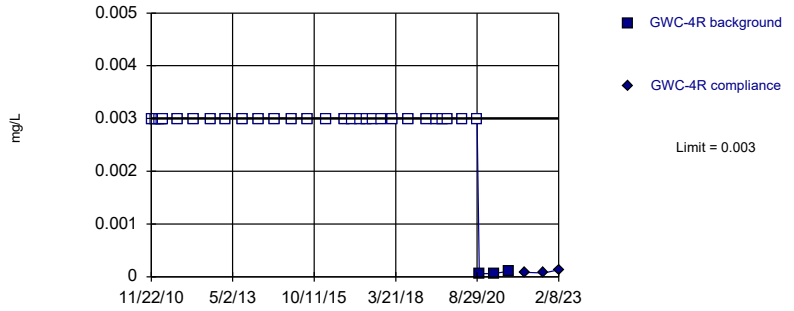
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 32 background values. 90.63% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Beryllium Analysis Run 5/2/2023 9:37 AM View: Appendix I & II

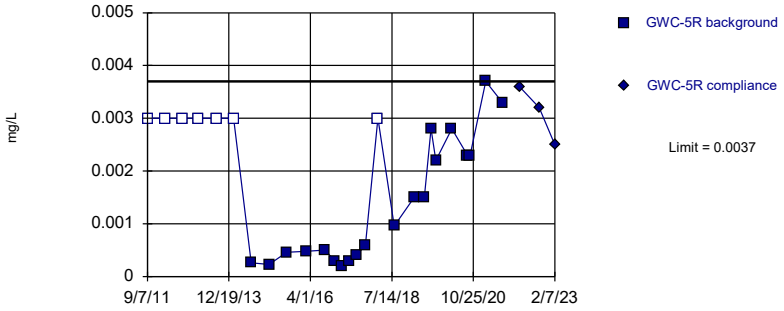
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 25.93% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Beryllium Analysis Run 5/2/2023 9:37 AM View: Appendix I & II

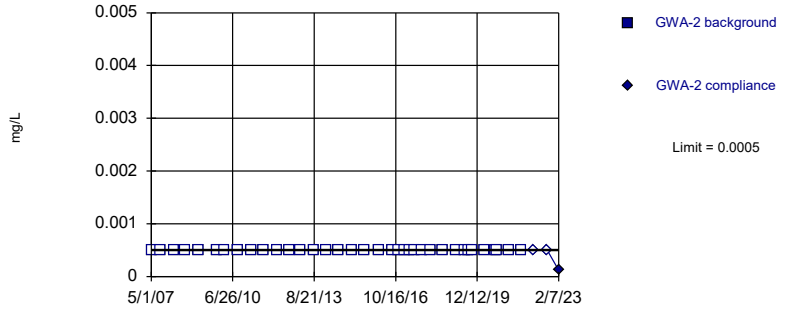
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 = 36) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.002856. Individual comparison alpha = 0.001429 (1 of 2).

Constituent: Cadmium Analysis Run 5/2/2023 9:37 AM View: Appendix I & II

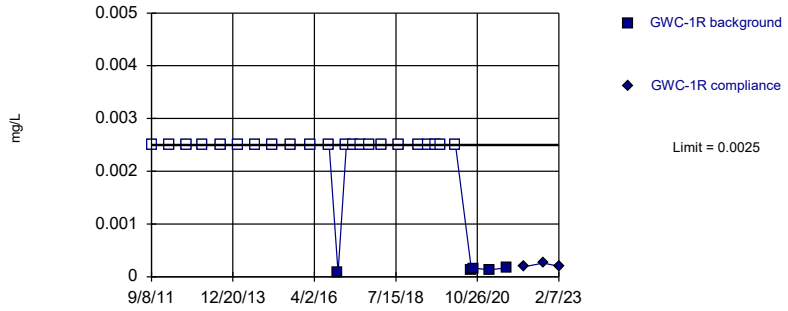
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 27 background values. 81.48% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Cadmium Analysis Run 5/2/2023 9:37 AM View: Appendix I & II

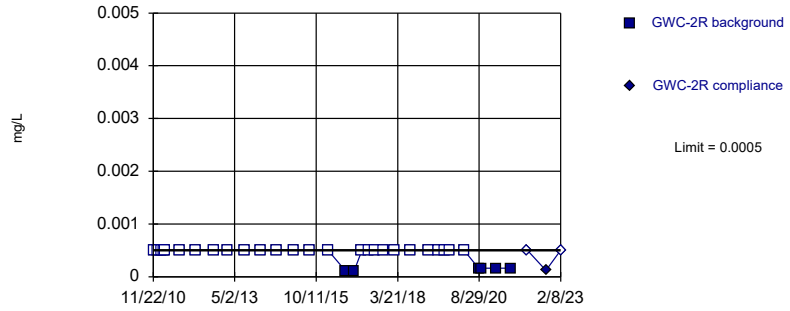
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 32 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cadmium Analysis Run 5/2/2023 9:37 AM View: Appendix I & II

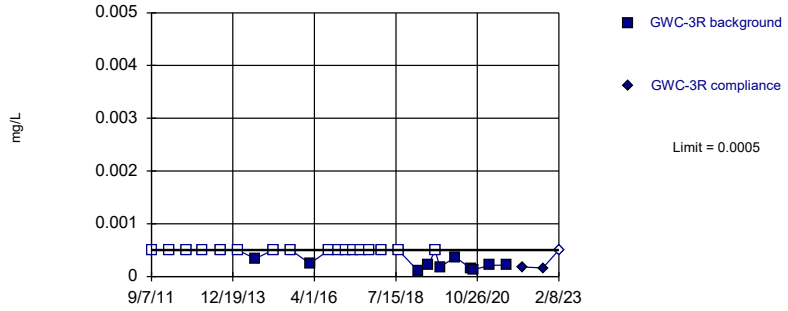
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 27 background values. 62.96% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Cadmium Analysis Run 5/2/2023 9:37 AM View: Appendix I & II

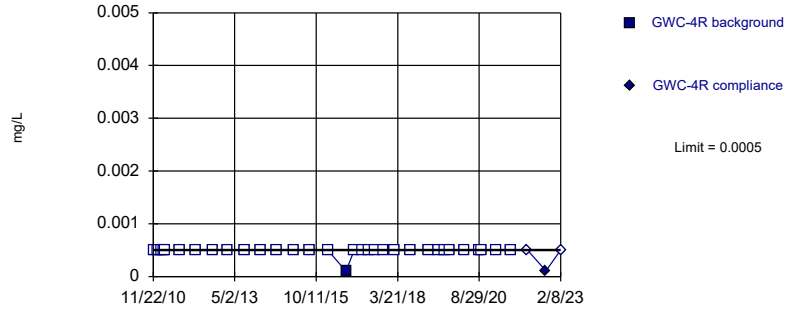
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Cadmium Analysis Run 5/2/2023 9:37 AM View: Appendix I & II

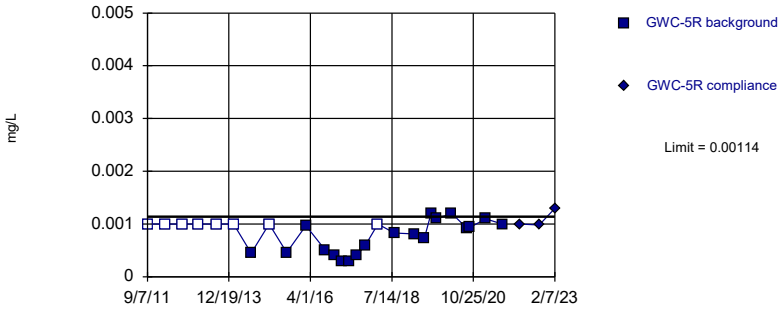
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on cube transformation) (after Kaplan-Meier Adjustment): Mean=4.6e-10, Std. Dev.=4.5e-10, n=27, 29.63% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.898, critical = 0.894. Kappa = 2.237 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

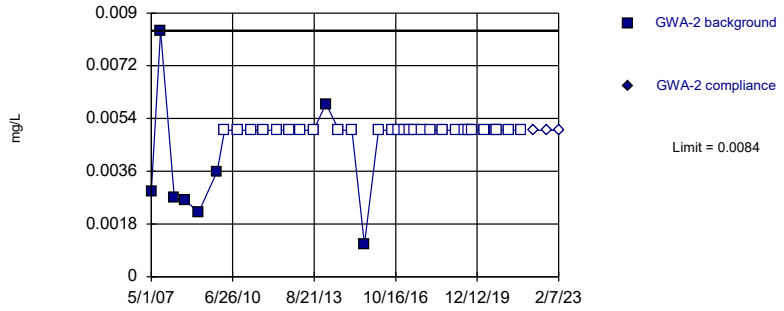
Constituent: Cadmium Analysis Run 5/2/2023 9:37 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 36 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.002856. Individual comparison alpha = 0.001429 (1 of 2).

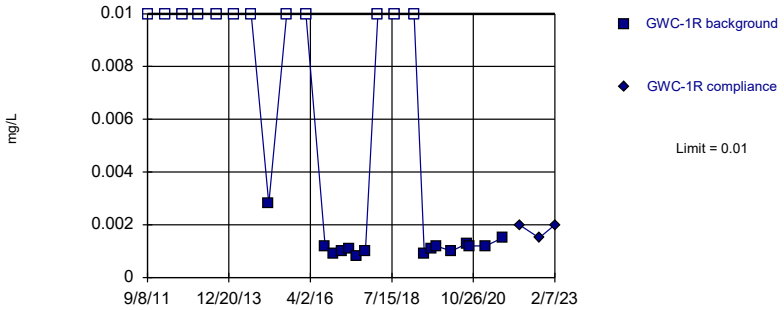
Constituent: Chromium Analysis Run 5/2/2023 9:37 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 44.44% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

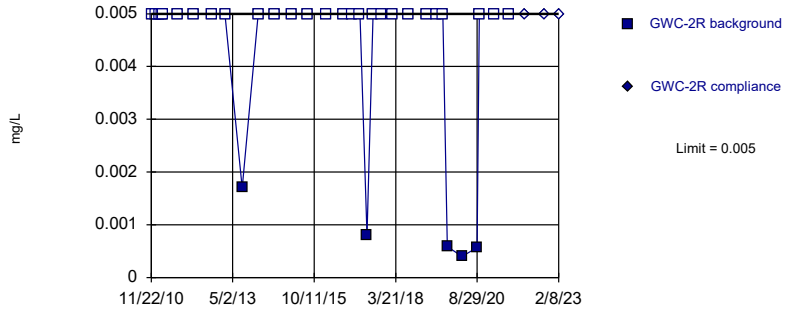
Constituent: Chromium Analysis Run 5/2/2023 9:37 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



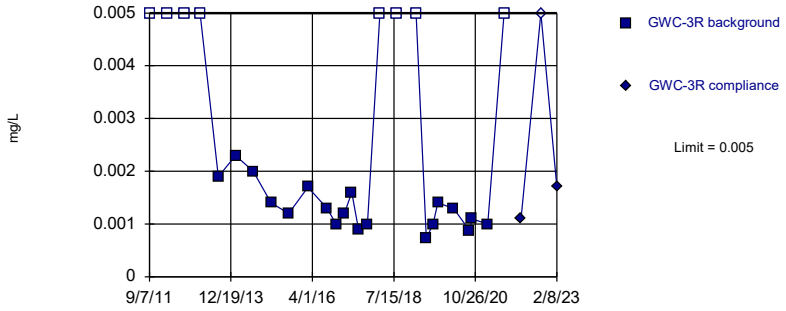
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 84.38% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Chromium Analysis Run 5/2/2023 9:37 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



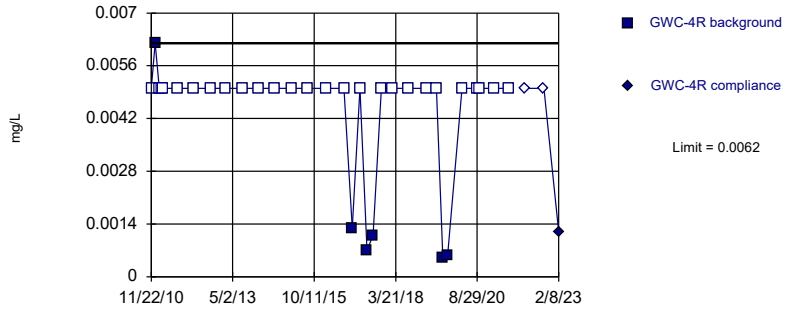
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 29.63% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Chromium Analysis Run 5/2/2023 9:37 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



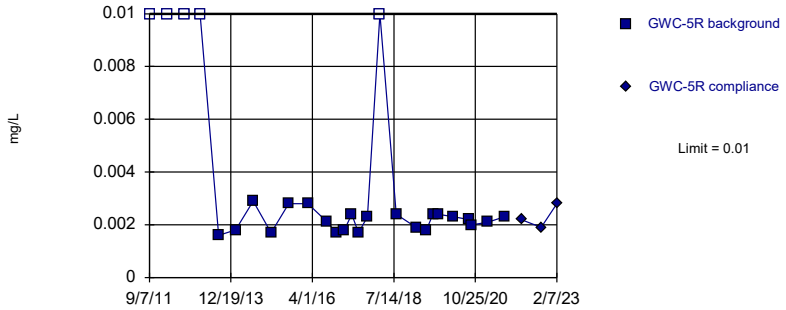
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 32 background values. 81.25% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Chromium Analysis Run 5/2/2023 9:37 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



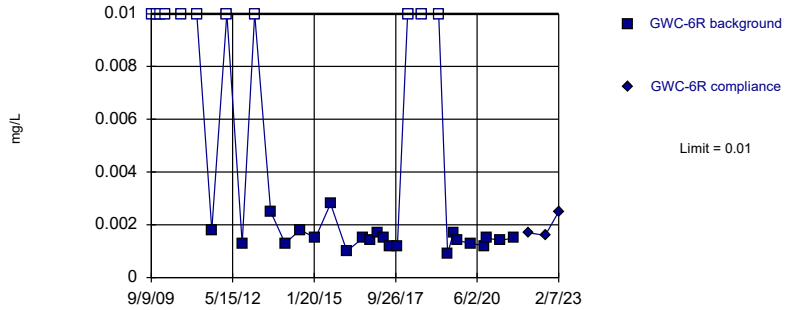
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 18.52% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Chromium Analysis Run 5/2/2023 9:37 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 33 background values. 33.33% NDs. Well-constituent pair annual alpha = 0.003399. Individual comparison alpha = 0.001701 (1 of 2).

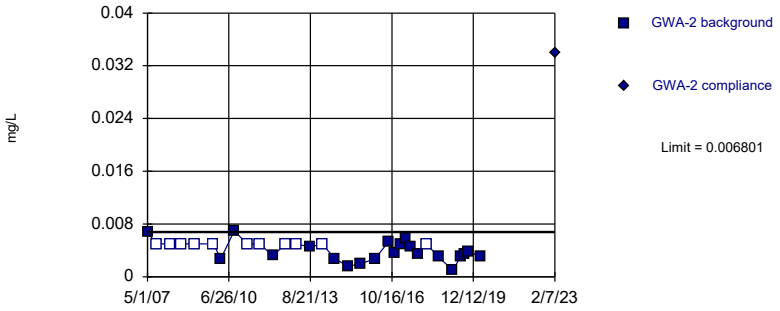
Constituent: Chromium Analysis Run 5/2/2023 9:37 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.00327, Std. Dev.=0.001613, n=32, 34.38% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9368, critical = 0.904. Kappa = 2.189 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

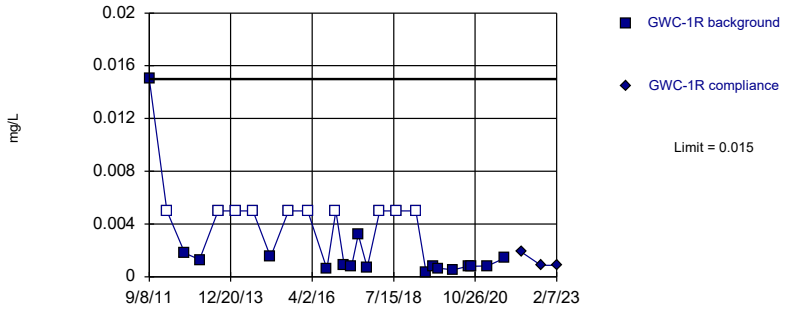
Constituent: Cobalt Analysis Run 5/2/2023 9:37 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 37.04% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

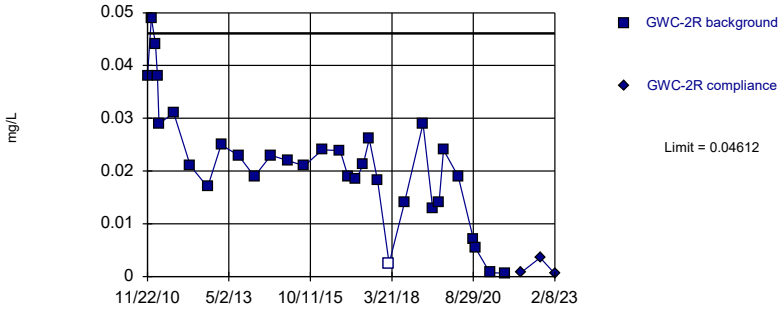
Constituent: Cobalt Analysis Run 5/2/2023 9:37 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.02126, Std. Dev.=0.01136, n=32, 3.125% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.956, critical = 0.904. Kappa = 2.189 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

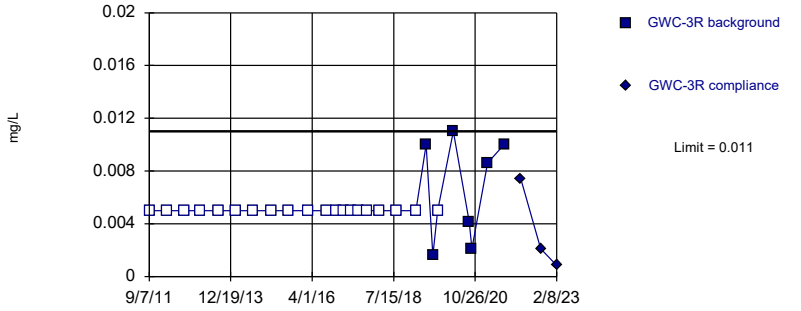
Constituent: Cobalt Analysis Run 5/2/2023 9:37 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 27 background values. 74.07% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

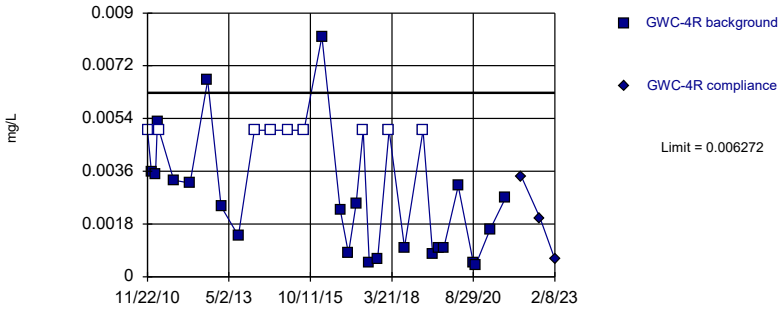
Constituent: Cobalt Analysis Run 5/2/2023 9:37 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002253, Std. Dev.=0.001836, n=32, 28.13% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9125, critical = 0.904. Kappa = 2.189 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

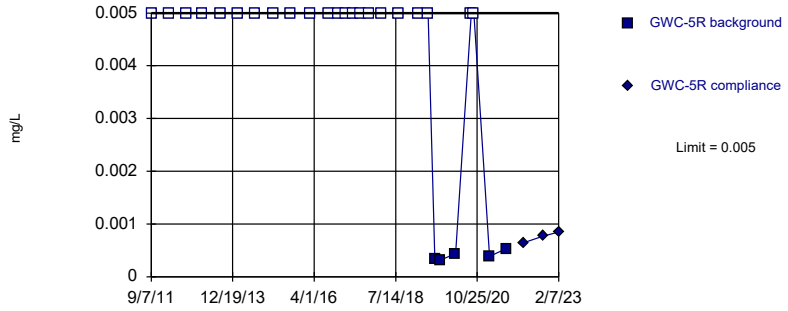
Constituent: Cobalt Analysis Run 5/2/2023 9:37 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 27 background values. 81.48% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

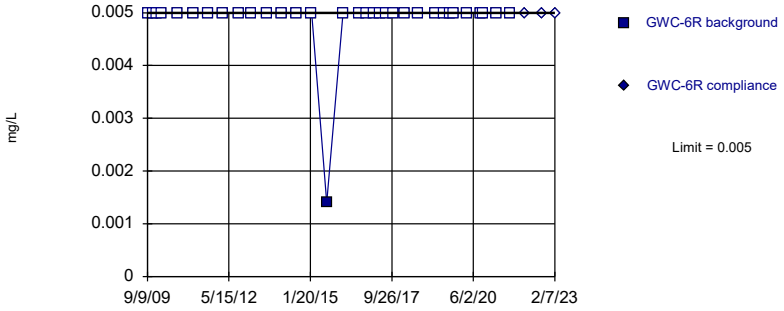
Constituent: Cobalt Analysis Run 5/2/2023 9:37 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 33 background values. 96.97% NDs. Well-constituent pair annual alpha = 0.003399. Individual comparison alpha = 0.001701 (1 of 2).

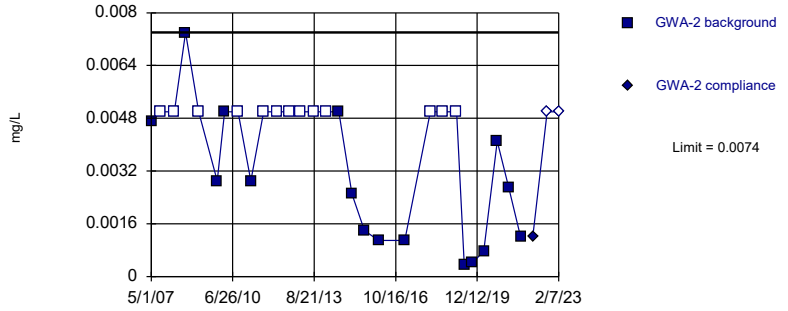
Constituent: Cobalt Analysis Run 5/2/2023 9:37 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 29 background values. 44.83% NDs. Well-constituent pair annual alpha = 0.00434. Individual comparison alpha = 0.002172 (1 of 2).

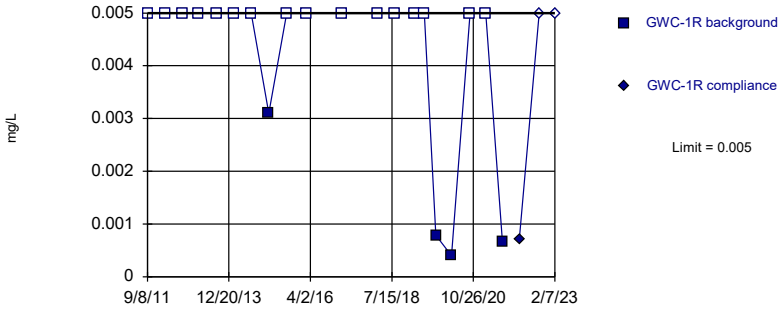
Constituent: Copper Analysis Run 5/2/2023 9:37 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 20 background values. 80% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

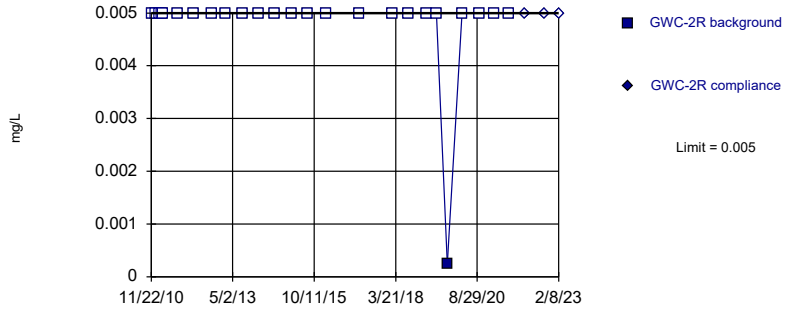
Constituent: Copper Analysis Run 5/2/2023 9:37 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 25 background values. 96% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

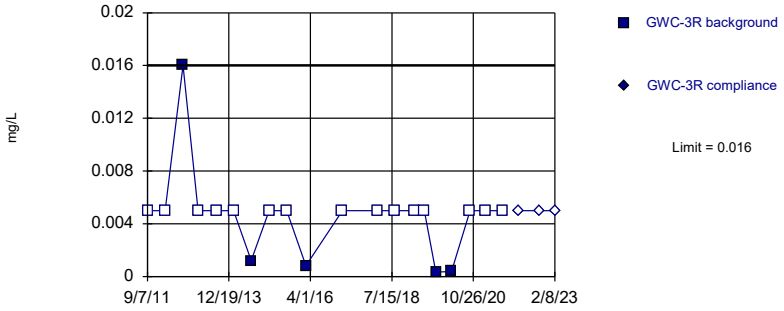
Constituent: Copper Analysis Run 5/2/2023 9:37 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

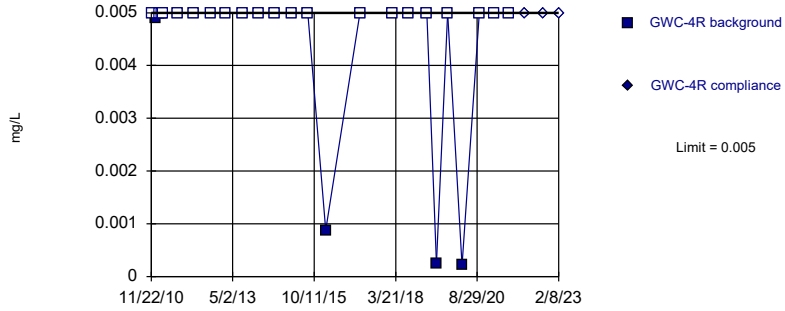
Constituent: Copper Analysis Run 5/2/2023 9:38 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 25 background values. 84% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

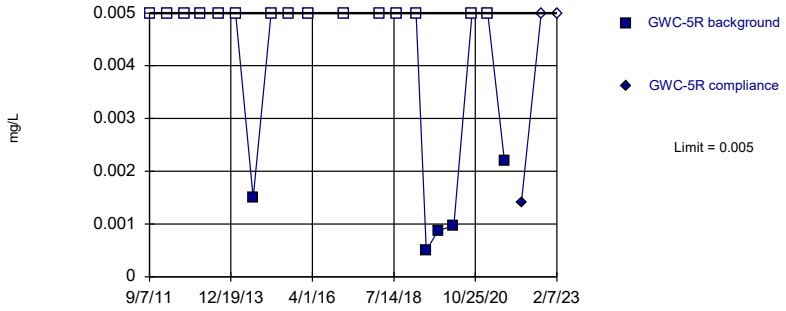
Constituent: Copper Analysis Run 5/2/2023 9:38 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

Constituent: Copper Analysis Run 5/2/2023 9:38 AM View: Appendix I & II

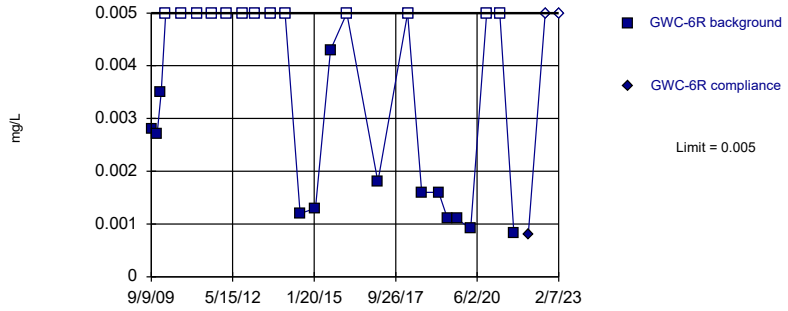
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 26 background values. 50% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Copper Analysis Run 5/2/2023 9:38 AM View: Appendix I & II

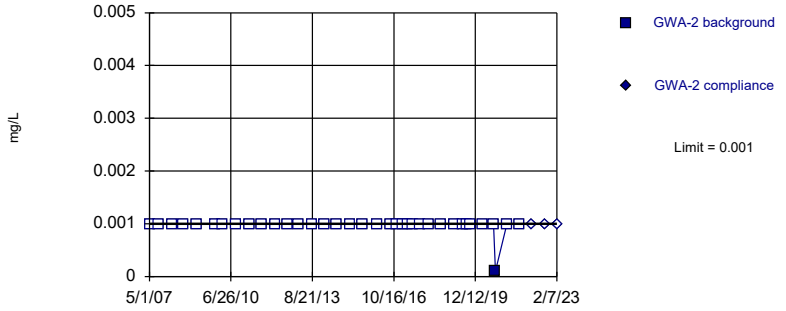
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 36 background values. 97.22% NDs. Well-constituent pair annual alpha = 0.002856. Individual comparison alpha = 0.001429 (1 of 2).

Constituent: Lead Analysis Run 5/2/2023 9:38 AM View: Appendix I & II

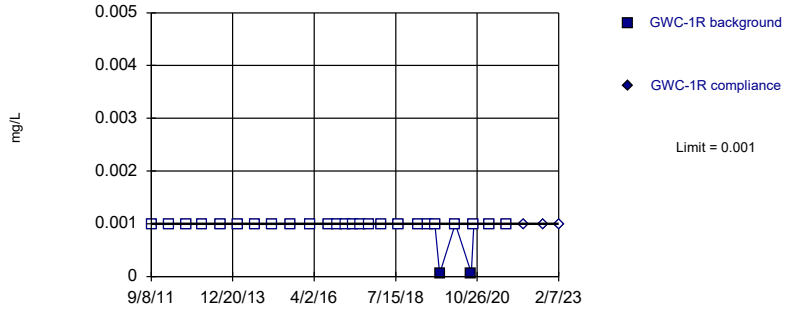
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 27 background values. 92.59% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Lead Analysis Run 5/2/2023 9:38 AM View: Appendix I & II

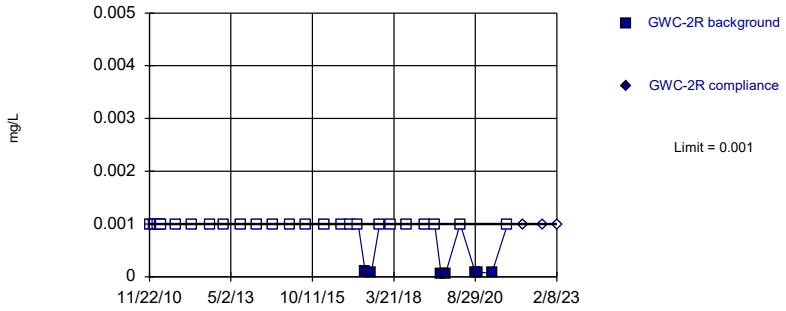
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 32 background values. 78.13% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 5/2/2023 9:38 AM View: Appendix I & II

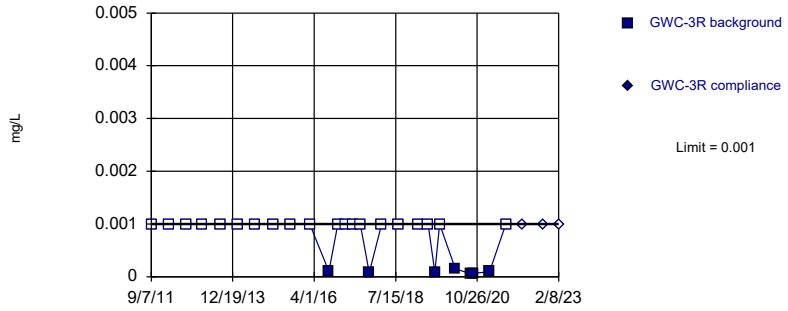
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 27 background values. 74.07% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Lead Analysis Run 5/2/2023 9:38 AM View: Appendix I & II

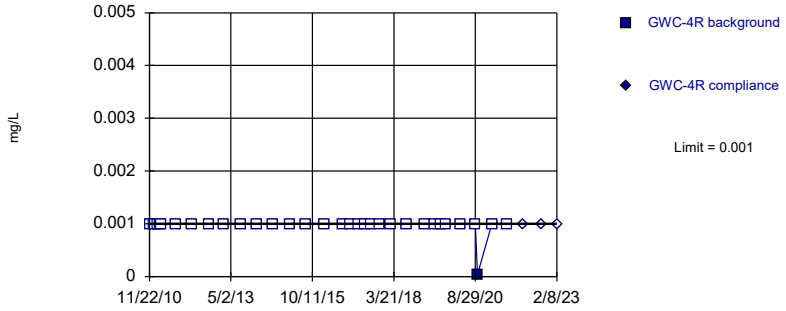
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Lead Analysis Run 5/2/2023 9:38 AM View: Appendix I & II

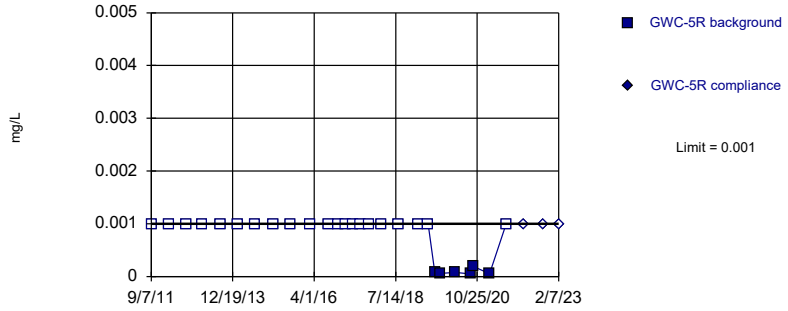
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 27 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Lead Analysis Run 5/2/2023 9:38 AM View: Appendix I & II

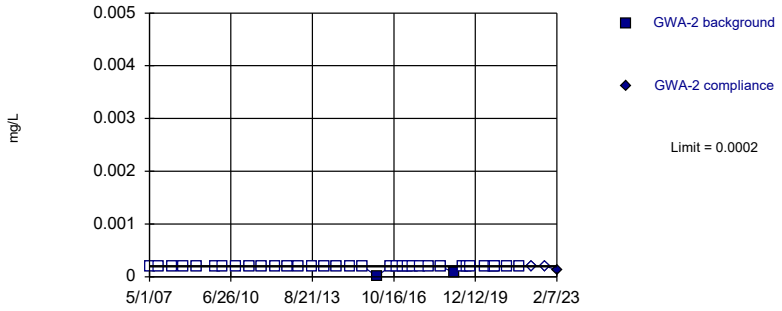
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 36 background values. 94.44% NDs. Well-constituent pair annual alpha = 0.002856. Individual comparison alpha = 0.001429 (1 of 2).

Constituent: Mercury Analysis Run 5/2/2023 9:38 AM View: Appendix I & II

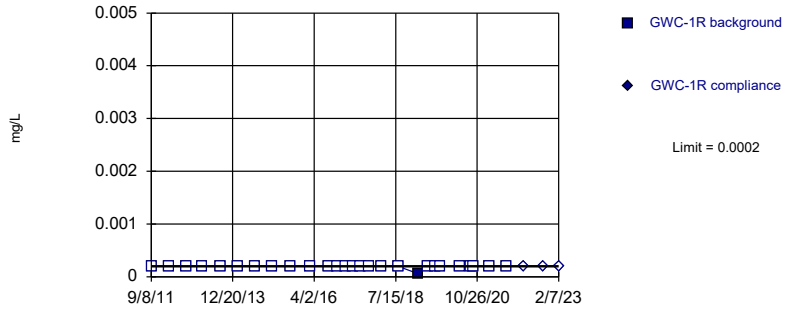
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 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 5/2/2023 9:38 AM View: Appendix I & II

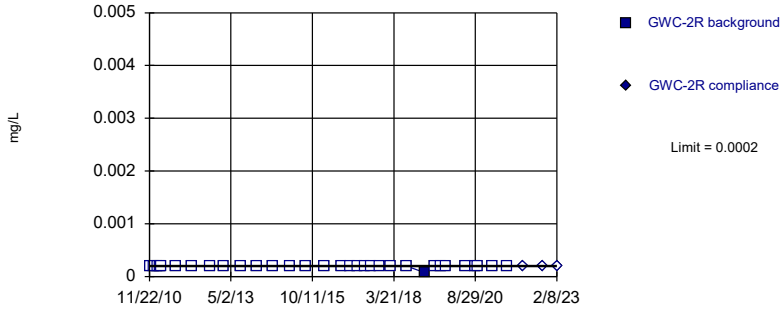
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 32 background values. 96.88% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Mercury Analysis Run 5/2/2023 9:38 AM View: Appendix I & II

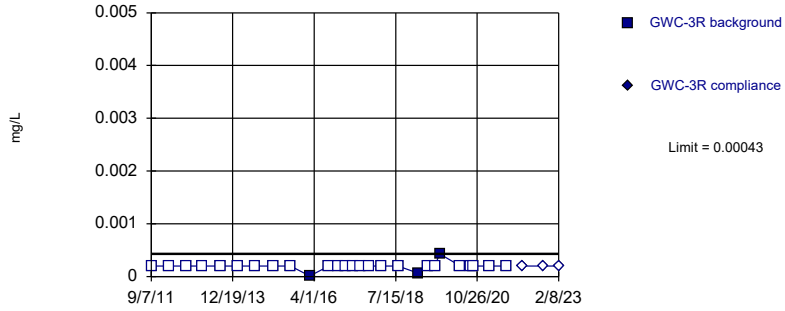
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 27 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Mercury Analysis Run 5/2/2023 9:38 AM View: Appendix I & II

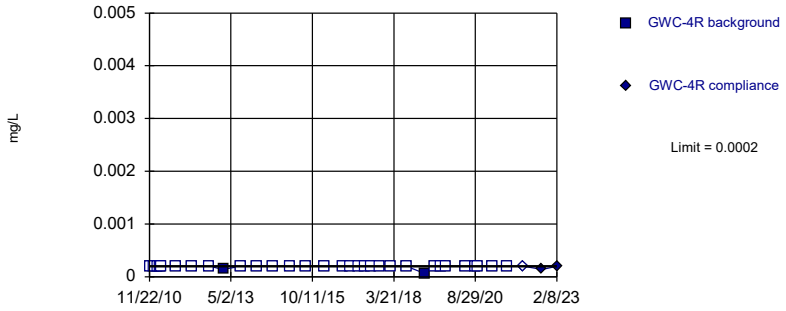
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 32 background values. 93.75% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

Constituent: Mercury Analysis Run 5/2/2023 9:38 AM View: Appendix I & II

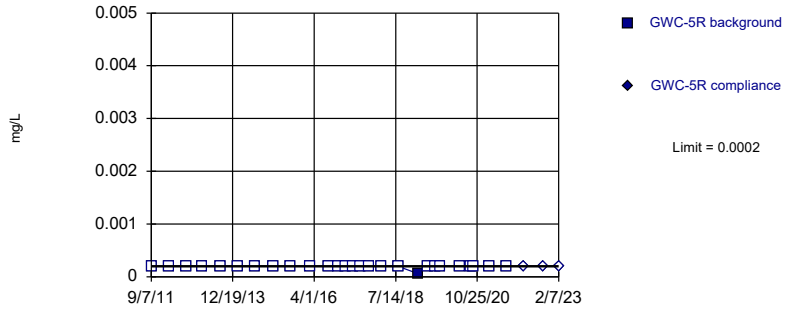
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 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 5/2/2023 9:38 AM View: Appendix I & II

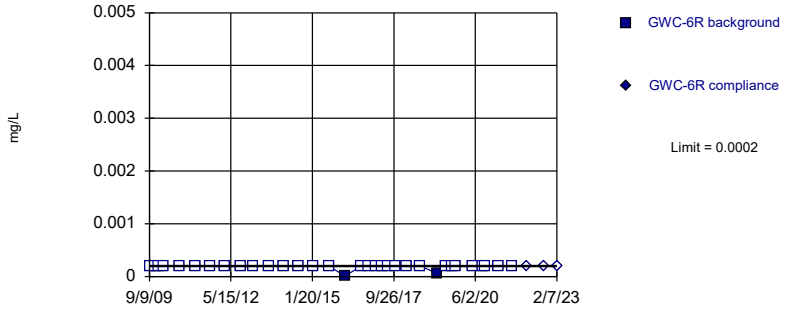
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 33 background values. 93.94% NDs. Well-constituent pair annual alpha = 0.003399. Individual comparison alpha = 0.001701 (1 of 2).

Constituent: Mercury Analysis Run 5/2/2023 9:38 AM View: Appendix I & II

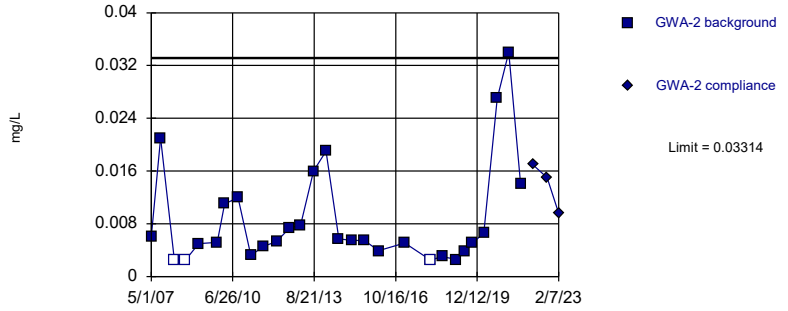
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=-5.033, Std. Dev.=0.7342, n=29, 10.34% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9234, critical = 0.898. Kappa = 2.215 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Nickel Analysis Run 5/2/2023 9:38 AM View: Appendix I & II

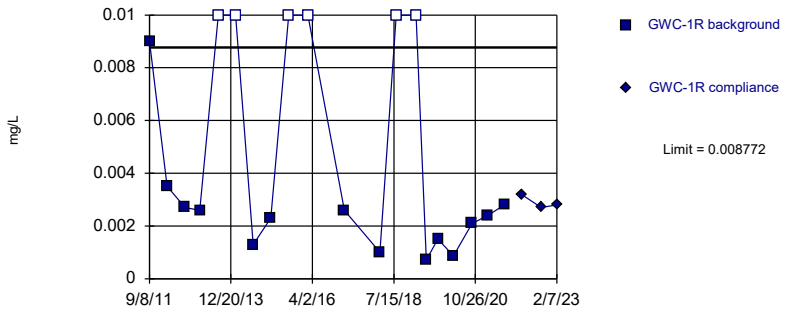
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-6.236, Std. Dev.=0.6381, n=20, 30% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8747, critical = 0.868. Kappa = 2.35 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

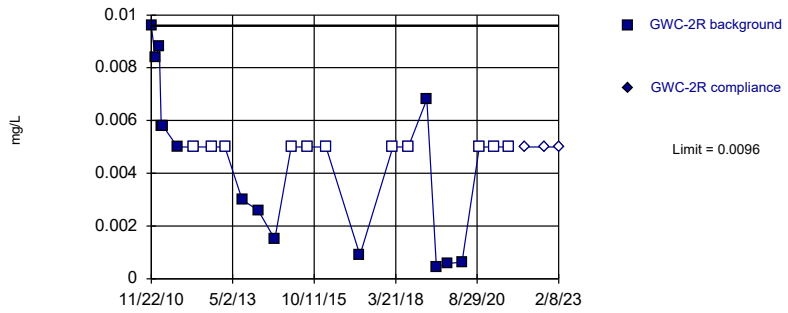
Constituent: Nickel Analysis Run 5/2/2023 9:38 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 25 background values. 44% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

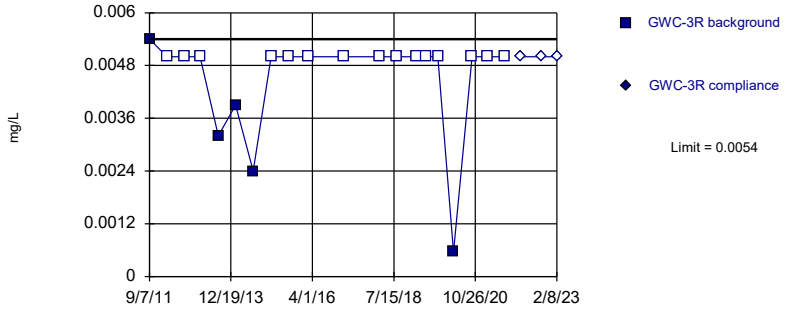
Constituent: Nickel Analysis Run 5/2/2023 9:38 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 20 background values. 75% NDs. Well-constituent pair annual alpha = 0.008564. Individual comparison alpha = 0.004291 (1 of 2).

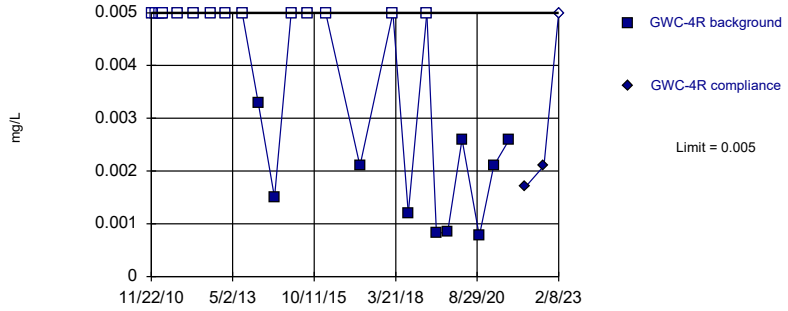
Constituent: Nickel Analysis Run 5/2/2023 9:38 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 25 background values. 60% NDs. Well-constituent pair annual alpha = 0.005656. Individual comparison alpha = 0.002832 (1 of 2).

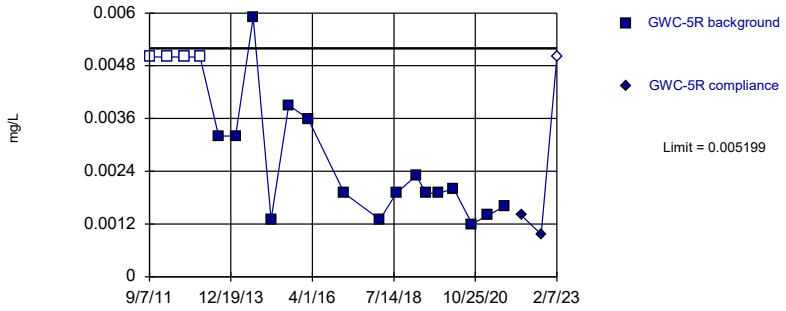
Constituent: Nickel Analysis Run 5/2/2023 9:38 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.0448, Std. Dev.=0.01162, n=20, 20% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8913, critical = 0.868. Kappa = 2.35 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

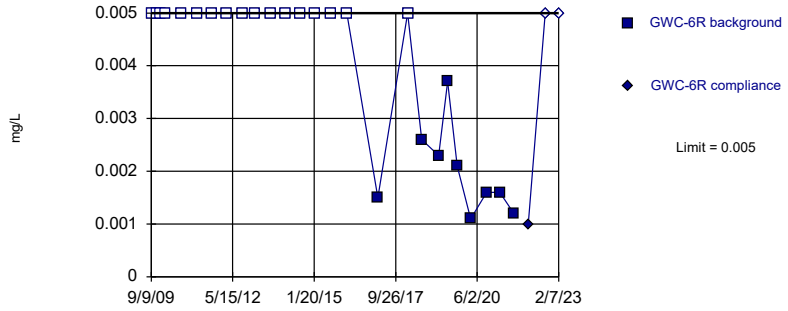
Constituent: Nickel Analysis Run 5/2/2023 9:38 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 26 background values. 65.38% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

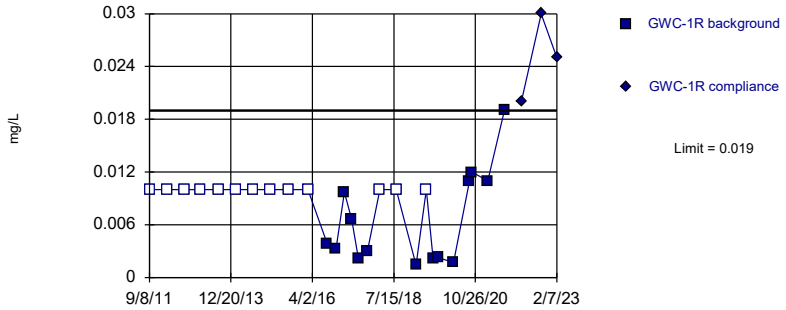
Constituent: Nickel Analysis Run 5/2/2023 9:38 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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 27 background values. 48.15% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

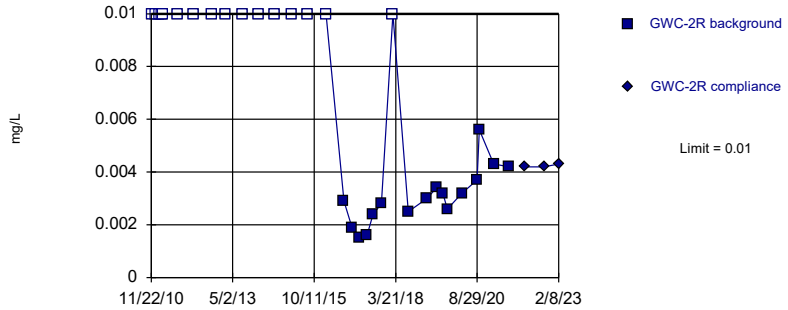
Constituent: Selenium Analysis Run 5/2/2023 9:38 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 32 background values. 50% NDs. Well-constituent pair annual alpha = 0.003603. Individual comparison alpha = 0.001803 (1 of 2).

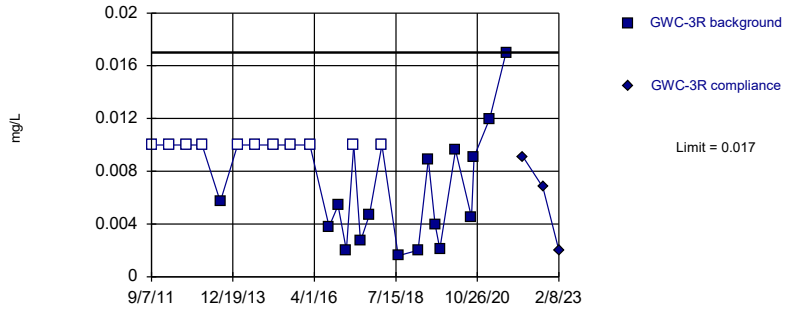
Constituent: Selenium Analysis Run 5/2/2023 9:38 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 27 background values. 40.74% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Selenium Analysis Run 5/2/2023 9:38 AM View: Appendix I & II

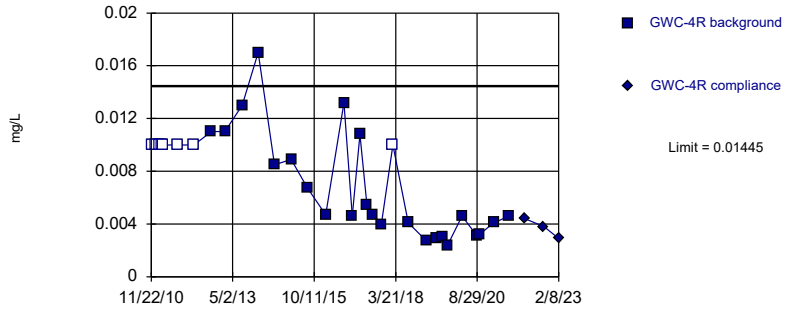
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.07177, Std. Dev.=0.02213, n=32, 25% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9096, critical = 0.904. Kappa = 2.189 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Selenium Analysis Run 5/2/2023 9:38 AM View: Appendix I & II

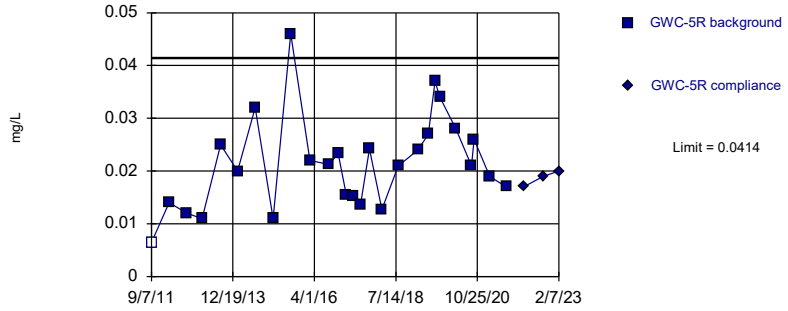
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.02145, Std. Dev.=0.008917, n=27, 3.704% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9579, critical = 0.894. Kappa = 2.237 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Selenium Analysis Run 5/2/2023 9:38 AM View: Appendix I & II

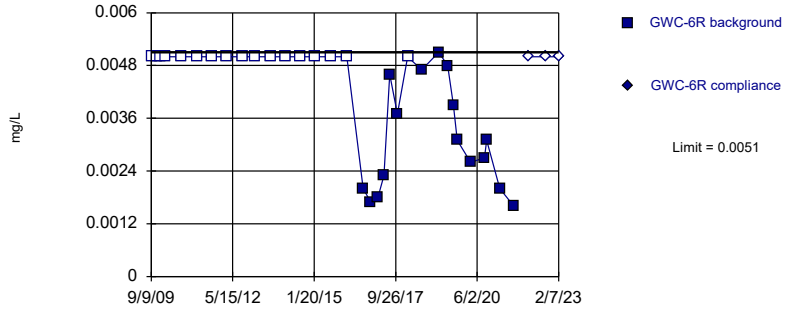
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 33 background values. 51.52% NDs. Well-constituent pair annual alpha = 0.003399. Individual comparison alpha = 0.001701 (1 of 2).

Constituent: Selenium Analysis Run 5/2/2023 9:38 AM View: Appendix I & II

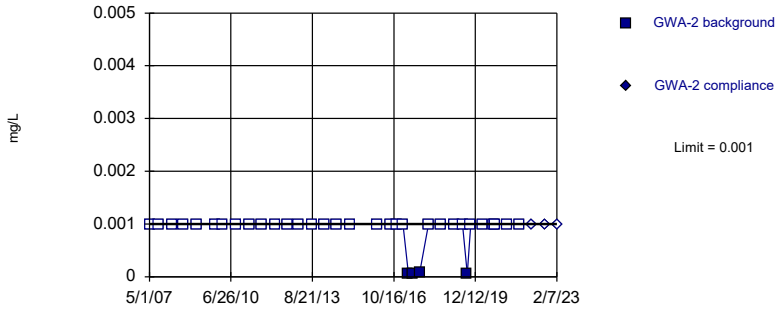
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 35 background values. 88.57% NDs. Well-constituent pair annual alpha = 0.002991. Individual comparison alpha = 0.001497 (1 of 2).

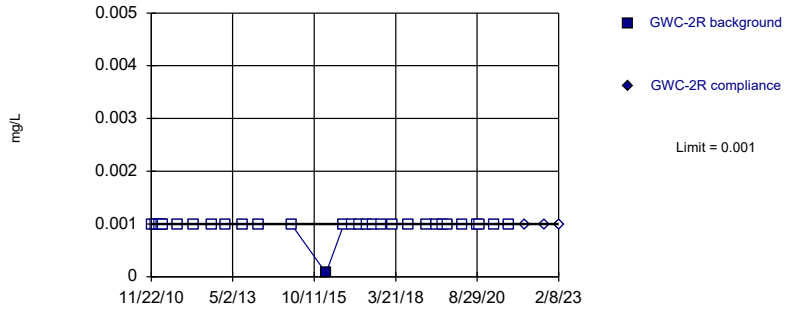
Constituent: Thallium Analysis Run 5/2/2023 9:38 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 30 background values. 96.67% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

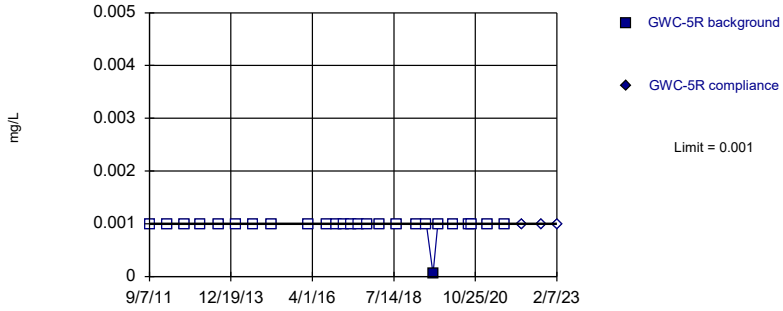
Constituent: Thallium Analysis Run 5/2/2023 9:38 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 26 background values. 96.15% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

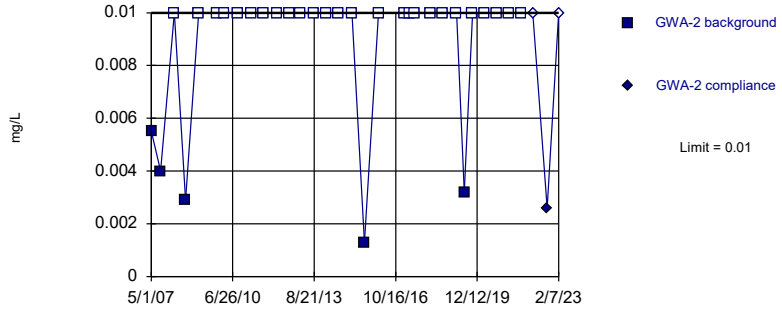
Constituent: Thallium Analysis Run 5/2/2023 9:38 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



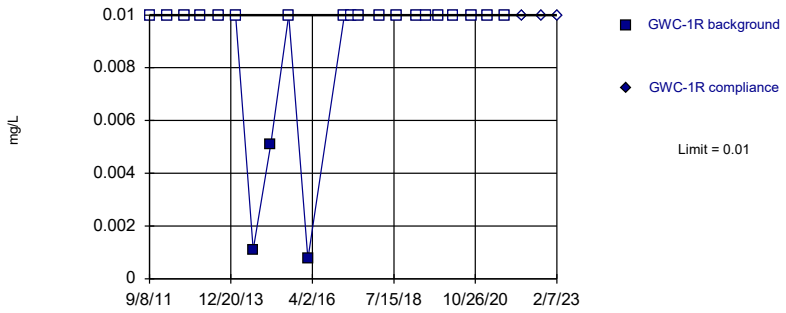
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 31 background values. 83.87% NDs. Well-constituent pair annual alpha = 0.003807. Individual comparison alpha = 0.001905 (1 of 2).

Constituent: Vanadium Analysis Run 5/2/2023 9:38 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



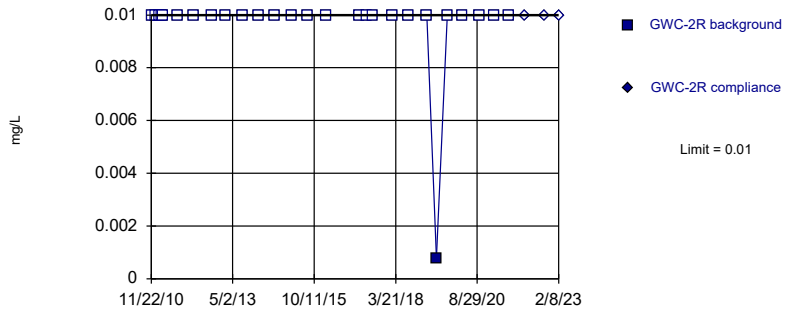
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 86.36% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Vanadium Analysis Run 5/2/2023 9:38 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



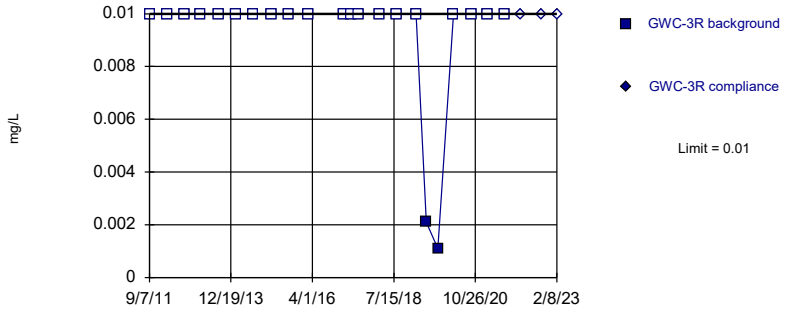
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Vanadium Analysis Run 5/2/2023 9:38 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.
Within Limit

Prediction Limit

Intrawell Non-parametric



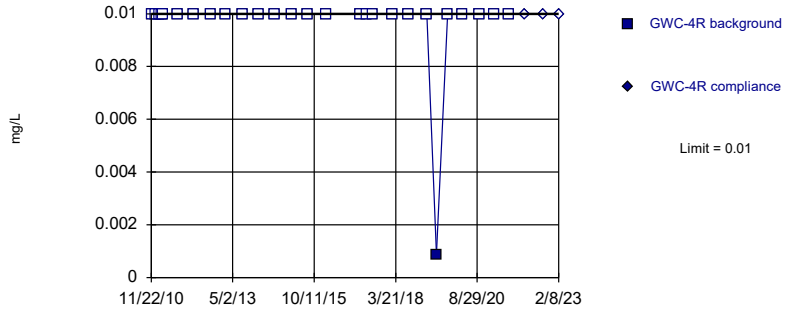
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 90.91% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Vanadium Analysis Run 5/2/2023 9:38 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

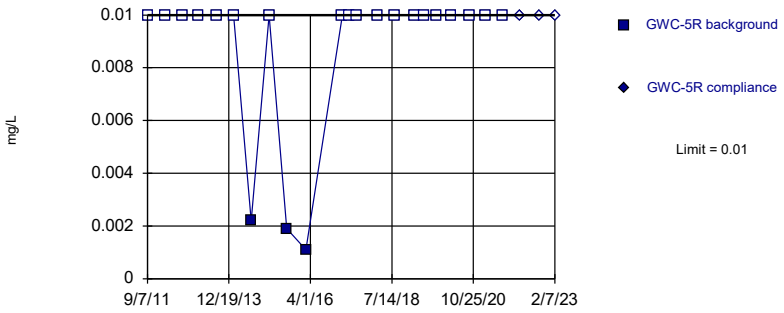
Constituent: Vanadium Analysis Run 5/2/2023 9:38 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 22 background values. 86.36% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Vanadium Analysis Run 5/2/2023 9:38 AM View: Appendix I & II

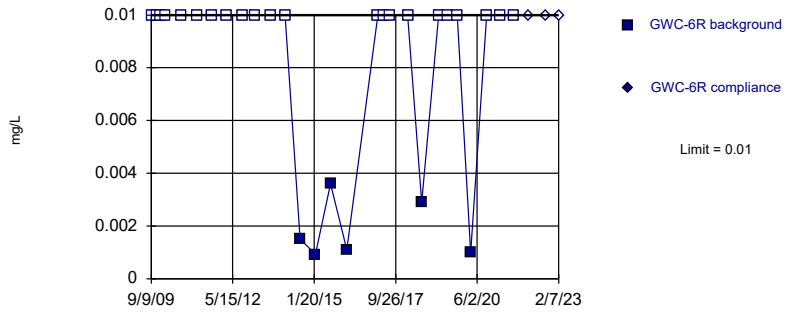
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 28 background values. 78.57% NDs. Well-constituent pair annual alpha = 0.004669. Individual comparison alpha = 0.002337 (1 of 2).

Constituent: Vanadium Analysis Run 5/2/2023 9:38 AM View: Appendix I & II

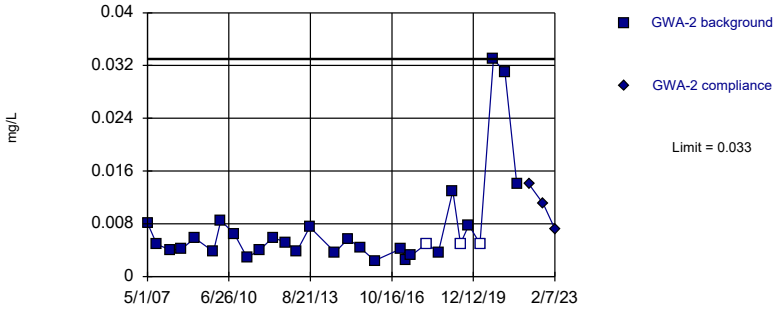
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 30 background values. 10% NDs. Well-constituent pair annual alpha = 0.004011. Individual comparison alpha = 0.002008 (1 of 2).

Constituent: Zinc Analysis Run 5/2/2023 9:38 AM View: Appendix I & II

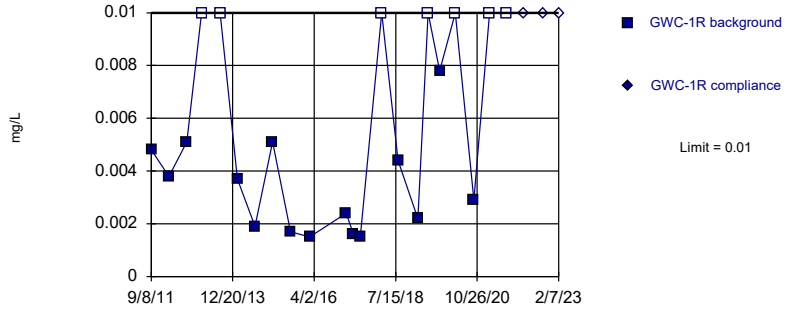
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 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. 31.82% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Zinc Analysis Run 5/2/2023 9:38 AM View: Appendix I & II

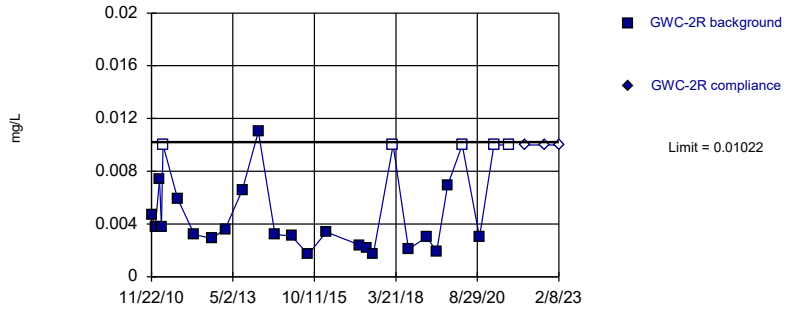
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-5.718, Std. Dev.=0.507, n=27, 18.52% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9098, critical = 0.894. Kappa = 2.237 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

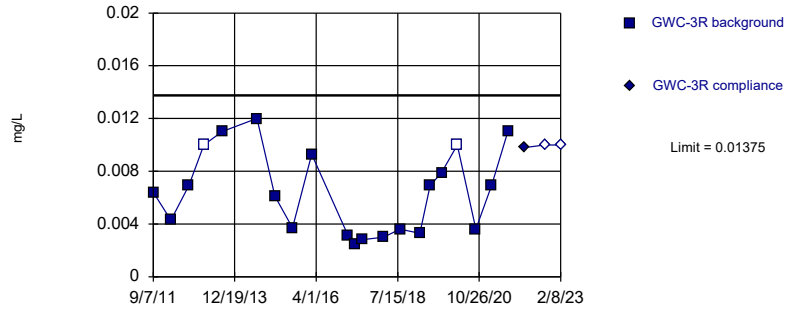
Constituent: Zinc Analysis Run 5/2/2023 9:38 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.006395, Std. Dev.=0.003152, n=21, 9.524% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9027, critical = 0.873. Kappa = 2.332 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

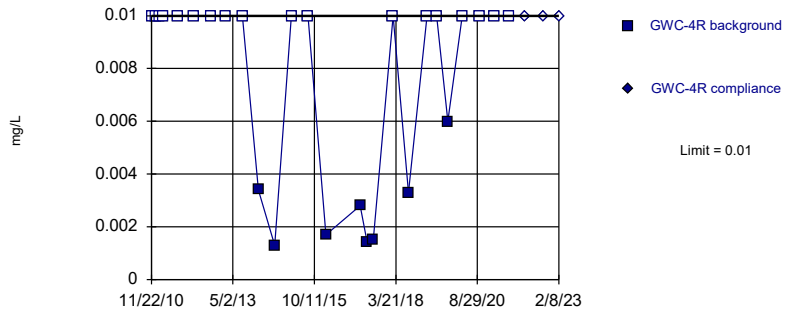
Constituent: Zinc Analysis Run 5/2/2023 9:38 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 26 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

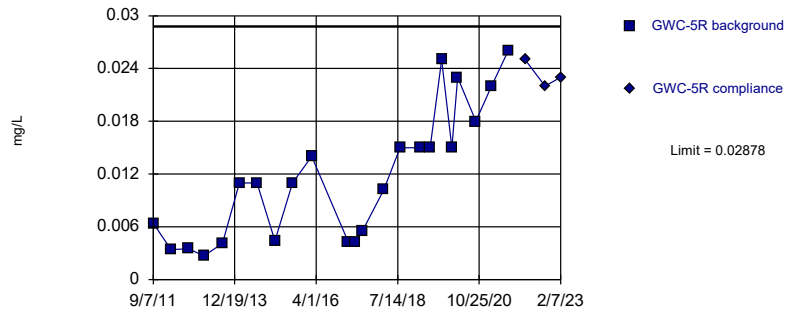
Constituent: Zinc Analysis Run 5/2/2023 9:38 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.01173, Std. Dev.=0.007426, n=23. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9059, critical = 0.881. Kappa = 2.296 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

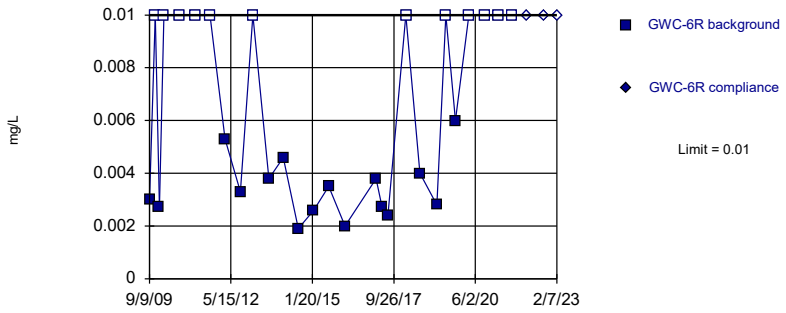
Constituent: Zinc Analysis Run 5/2/2023 9:38 AM View: Appendix I & II
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Hollow symbols indicate censored values.

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 28 background values. 42.86% NDs. Well-constituent pair annual alpha = 0.004669. Individual comparison alpha = 0.002337 (1 of 2).

Constituent: Zinc Analysis Run 5/2/2023 9:38 AM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		<0.003
8/30/2022		<0.003
2/7/2023		<0.003

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/9/2022		<0.003
8/31/2022		<0.003
2/8/2023		<0.003

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		0.0017 (J)
8/30/2022		0.00094 (J)
2/8/2023		<0.003

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/9/2022		<0.003
8/30/2022		<0.003
2/7/2023		<0.003

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		0.0033 (J)
8/30/2022		0.0024 (J)
2/7/2023		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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)	
2/8/2022		0.0026 (J)
8/30/2022		0.0035 (J)
2/7/2023		0.0047 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/9/2022		<0.005
8/31/2022		<0.005
2/8/2023		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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)	
2/8/2022		0.0015 (J)
8/30/2022		<0.005
2/8/2023		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		0.0013 (J)
8/30/2022		<0.005
2/8/2023		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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)	
2/9/2022		0.0034 (J)
8/30/2022		0.0035 (J)
2/7/2023		0.0054

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		<0.005
8/30/2022		<0.005
2/7/2023		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		0.037
8/30/2022		0.031
2/7/2023		0.034

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		0.066
8/30/2022		0.058
2/7/2023		0.051

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/9/2022		0.038
8/31/2022		0.026
2/8/2023		0.027

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		0.013
8/30/2022		0.01
2/8/2023		0.0089

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		0.031
8/30/2022		0.022
2/8/2023		0.034

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/9/2022		0.011
8/30/2022		0.01
2/7/2023		0.011

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		0.03
8/30/2022		0.028
2/7/2023		0.032

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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)	
2/8/2022		0.00032 (J)
8/30/2022		0.00037 (J)
2/7/2023		0.00037 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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)	
2/9/2022		0.00023 (J)
8/31/2022		0.00023 (J)
2/8/2023		0.00025 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		0.001
8/30/2022		0.00056
2/8/2023		0.00033 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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)	
2/8/2022		8.5E-05 (J)
8/30/2022		7.2E-05 (J)
2/8/2023		0.00013 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/9/2022		0.0036
8/30/2022		0.0032
2/7/2023		0.0025

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	<0.0005	
9/11/2007	<0.0005	
3/20/2008	<0.0005	
8/27/2008	<0.0005	
3/3/2009	<0.0005	
11/18/2009	<0.0005	
3/3/2010	<0.0005	
9/8/2010	<0.0005	
3/10/2011	<0.0005	
9/8/2011	<0.0005	
3/5/2012	<0.0005	
9/10/2012	<0.0005	
2/6/2013	<0.0005	
8/12/2013	<0.0005	
2/5/2014	<0.0005	
8/5/2014	<0.0005	
2/4/2015	<0.0005	
8/3/2015	<0.0005	
2/16/2016	<0.0005	
8/31/2016	<0.0005	
11/28/2016	<0.0005	
2/22/2017	<0.0005	
5/8/2017	<0.0005	
7/17/2017	<0.0005	
10/16/2017	<0.0005	
2/19/2018	<0.0005	
8/6/2018	<0.0005	
2/25/2019	<0.0005	
6/12/2019	<0.0005	
8/19/2019	<0.0005	
10/8/2019	<0.0005	
3/17/2020	<0.0005	
8/26/2020	<0.0005	
9/22/2020	<0.0005	
3/2/2021	<0.0005	
8/20/2021	<0.0005	
2/8/2022		<0.0005
8/30/2022		<0.0005
2/7/2023		0.00012 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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)	
2/8/2022		0.00019 (J)
8/30/2022		0.00026 (J)
2/7/2023		0.0002 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R
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	
3/6/2012	<0.0005	
9/11/2012	<0.0005	
2/6/2013	<0.0005	
8/13/2013	<0.0005	
2/4/2014	<0.0005	
8/5/2014	<0.0005	
2/2/2015	<0.0005	
8/4/2015	<0.0005	
2/17/2016	<0.0005	
8/31/2016	0.0001 (J)	
11/28/2016	0.0001 (J)	
2/22/2017	<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	
8/20/2019	<0.0005	
10/9/2019	<0.0005	
3/18/2020	<0.0005	
8/28/2020	0.00015 (J)	
9/22/2020	0.00016 (J)	
3/1/2021	0.00016 (J)	
8/18/2021	0.00016 (J)	
2/9/2022		<0.0005
8/31/2022		0.00012 (J)
2/8/2023		<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.0005	
3/5/2012	<0.0005	
9/5/2012	<0.0005	
2/6/2013	<0.0005	
8/13/2013	<0.0005	
2/5/2014	<0.0005	
8/4/2014	0.00034 (J)	
2/3/2015	<0.0005	
8/3/2015	<0.0005 (D)	
2/16/2016	0.00025 (J)	
8/31/2016	<0.0005	
11/30/2016	<0.0005	
2/23/2017	<0.0005	
5/9/2017	<0.0005	
7/18/2017	<0.0005	
10/18/2017	<0.0005	
2/21/2018	<0.0005	
8/7/2018	<0.0005	
2/26/2019	0.00011 (J)	
6/13/2019	0.00021 (J)	
8/21/2019	<0.0005	
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)	
2/8/2022		0.00018 (J)
8/30/2022		0.00016 (J)
2/8/2023		<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		<0.0005
8/30/2022		0.00011 (J)
2/8/2023		<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/9/2022		0.001
8/30/2022		0.00098
2/7/2023		0.0013

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		<0.005
8/30/2022		<0.005
2/7/2023		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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)	
2/8/2022		0.002 (J)
8/30/2022		0.0015 (J)
2/7/2023		0.002 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/9/2022		<0.005
8/31/2022		<0.005
2/8/2023		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		0.0011 (J)
8/30/2022		<0.005
2/8/2023		0.0017 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		<0.005
8/30/2022		<0.005
2/8/2023		0.0012 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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)	
2/9/2022		0.0022 (J)
8/30/2022		0.0019 (J)
2/7/2023		0.0028 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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)	
2/8/2022		0.0017 (J)
8/30/2022		0.0016 (J)
2/7/2023		0.0025 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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)	
2/8/2022		0.072 (o)
8/30/2022		0.075 (o)
2/7/2023		0.034

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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)	
2/8/2022		0.0019 (J)
8/30/2022		0.00087 (J)
2/7/2023		0.00086 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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)	
2/9/2022		0.00085 (J)
8/31/2022		0.0036 (J)
2/8/2023		0.00052 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		0.0074
8/30/2022		0.0021 (J)
2/8/2023		0.00085 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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)	
2/8/2022		0.0034 (J)
8/30/2022		0.002 (J)
2/8/2023		0.0006 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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)	
2/9/2022		0.00064 (J)
8/30/2022		0.00077 (J)
2/7/2023		0.00085 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		<0.005
8/30/2022		<0.005
2/7/2023		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix I & II

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
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	
11/18/2009	0.0029	
3/3/2010	0.005	
9/8/2010	<0.005	
3/10/2011	0.0029	
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	0.0025 (J)	
8/3/2015	0.0014 (J)	
2/16/2016	0.0011 (J)	
2/22/2017	0.0011 (J)	
2/19/2018	<0.005	
8/6/2018	<0.005	
2/25/2019	<0.005	
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)	
2/8/2022		0.0012 (J)
8/30/2022		<0.005
2/7/2023		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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)	
2/8/2022		0.00072 (J)
8/30/2022		<0.005
2/7/2023		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/9/2022		<0.005
8/31/2022		<0.005
2/8/2023		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		<0.005
8/30/2022		<0.005
2/8/2023		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		<0.005
8/30/2022		<0.005
2/8/2023		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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)	
2/9/2022		0.0014 (J)
8/30/2022		<0.005
2/7/2023		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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)	
2/8/2022		0.0008 (J)
8/30/2022		<0.005
2/7/2023		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		<0.001
8/30/2022		<0.001
2/7/2023		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		<0.001
8/30/2022		<0.001
2/7/2023		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/9/2022		<0.001
8/31/2022		<0.001
2/8/2023		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		<0.001
8/30/2022		<0.001
2/8/2023		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		<0.001
8/30/2022		<0.001
2/8/2023		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/9/2022		<0.001
8/30/2022		<0.001
2/7/2023		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		<0.0002
8/30/2022		<0.0002
2/7/2023		0.00013 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		<0.0002
8/30/2022		<0.0002
2/7/2023		<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/9/2022		<0.0002
8/31/2022		<0.0002
2/8/2023		<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		<0.0002
8/30/2022		<0.0002
2/8/2023		<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		<0.0002
8/30/2022		0.00014 (J)
2/8/2023		0.0002 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/9/2022		<0.0002
8/30/2022		<0.0002
2/7/2023		<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Mercury (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		<0.0002
8/30/2022		<0.0002
2/7/2023		<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		0.017
8/30/2022		0.015
2/7/2023		0.0096

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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)	
2/8/2022		0.0032 (J)
8/30/2022		0.0027 (J)
2/7/2023		0.0028 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/9/2022		<0.005
8/31/2022		<0.005
2/8/2023		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		<0.005
8/30/2022		<0.005
2/8/2023		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	0.0033	
8/4/2014	0.0015 (J)	
2/2/2015	<0.005	
8/3/2015	<0.005 (D)	
2/16/2016	<0.005	
2/24/2017	0.0021 (J)	
2/20/2018	<0.005	
8/8/2018	0.0012 (J)	
2/26/2019	<0.005	
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)	
2/8/2022		0.0017 (J)
8/30/2022		0.0021 (J)
2/8/2023		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	0.0032	
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)	
2/9/2022		0.0014 (J)
8/30/2022		0.00097 (J)
2/7/2023		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Nickel (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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)	
2/8/2022		0.001 (J)
8/30/2022		<0.005
2/7/2023		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		0.02
8/30/2022		0.03
2/7/2023		0.025

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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)	
2/9/2022		0.0042 (J)
8/31/2022		0.0042 (J)
2/8/2023		0.0043 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		0.0091
8/30/2022		0.0068
2/8/2023		0.002 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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)	
2/8/2022		0.0044 (J)
8/30/2022		0.0038 (J)
2/8/2023		0.0029 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/9/2022		0.017
8/30/2022		0.019
2/7/2023		0.02

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	0.002 (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	<0.005	
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)	
2/8/2022		<0.005
8/30/2022		<0.005
2/7/2023		<0.005

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		<0.001
8/30/2022		<0.001
2/7/2023		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/9/2022		<0.001
8/31/2022		<0.001
2/8/2023		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/9/2022		<0.001
8/30/2022		<0.001
2/7/2023		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		<0.01
8/30/2022		0.0026 (J)
2/7/2023		<0.01

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		<0.01
8/30/2022		<0.01
2/7/2023		<0.01

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/9/2022		<0.01
8/31/2022		<0.01
2/8/2023		<0.01

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		<0.01
8/30/2022		<0.01
2/8/2023		<0.01

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		<0.01
8/30/2022		<0.01
2/8/2023		<0.01

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/9/2022		<0.01
8/30/2022		<0.01
2/7/2023		<0.01

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Vanadium (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		<0.01
8/30/2022		<0.01
2/7/2023		<0.01

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		0.014
8/30/2022		0.011
2/7/2023		0.0072 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		<0.01
8/30/2022		<0.01
2/7/2023		<0.01

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/9/2022		<0.01
8/31/2022		<0.01
2/8/2023		<0.01

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		0.0098 (J)
8/30/2022		<0.01
2/8/2023		<0.01

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		<0.01
8/30/2022		<0.01
2/8/2023		<0.01

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/9/2022		0.025
8/30/2022		0.022
2/7/2023		0.023

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/2/2023 9:43 AM View: Appendix 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	
2/8/2022		<0.01
8/30/2022		<0.01
2/7/2023		<0.01

ND substitution: RL or RL/2 if <15% NDs.

FIGURE E.

Appendix III Intrawell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/2/2023, 10:06 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
pH (S.U.)	**GWC-6R**	**6.79**	**5.2**	**2/7/2023**	**4.81**	**Yes**	**28**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.004674**	**NP Intra (normality) 1 of 2**

Appendix III Intrawell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/2/2023, 10:06 AM

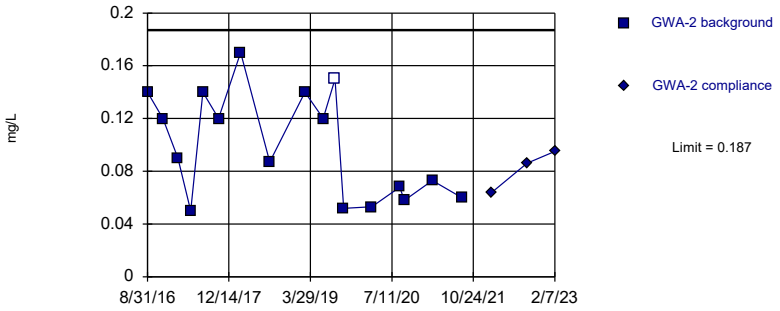
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Fluoride (mg/L)	GWA-2	0.187	n/a	2/7/2023	0.095J	No	17	0.09947	0.04015	5.882	None	No	0.001254	Param Intra 1 of 2
Fluoride (mg/L)	GWC-1R	0.1	n/a	2/7/2023	0.1ND	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-2R	0.58	n/a	2/8/2023	0.1ND	No	17	n/a	n/a	70.59	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-3R	0.4247	n/a	2/8/2023	0.12	No	17	-2.596	0.7975	41.18	Kaplan-Meier	ln(x)	0.001254	Param Intra 1 of 2
Fluoride (mg/L)	GWC-4R	0.15	n/a	2/8/2023	0.05J	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-5R	0.37	n/a	2/7/2023	0.077J	No	17	n/a	n/a	52.94	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
Fluoride (mg/L)	GWC-6R	0.28	n/a	2/7/2023	0.07J	No	17	n/a	n/a	76.47	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2
pH (S.U.)	GWA-2	6.968	5.399	2/7/2023	5.94	No	30	6.184	0.3941	0	None	No	0.0006268	Param Intra 1 of 2
pH (S.U.)	GWC-1R	6.8	4.49	2/7/2023	5.16	No	18	n/a	n/a	0	n/a	n/a	0.01075	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-2R	6.8	4.35	2/8/2023	4.96	No	25	n/a	n/a	0	n/a	n/a	0.005664	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-3R	5.572	4.528	2/8/2023	5.21	No	18	25.78	2.447	0	None	x^2	0.0006268	Param Intra 1 of 2
pH (S.U.)	GWC-4R	6.16	5.07	2/8/2023	5.64	No	19	n/a	n/a	0	n/a	n/a	0.009664	NP Intra (normality) 1 of 2
pH (S.U.)	GWC-5R	5.568	4.599	2/7/2023	4.62	No	19	5.084	0.2272	0	None	No	0.0006268	Param Intra 1 of 2
pH (S.U.)	**GWC-6R**	**6.79**	**5.2**	**2/7/2023**	**4.81**	**Yes**	**28**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.004674**	**NP Intra (normality) 1 of 2**

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary: Mean=0.09947, Std. Dev.=0.04015, n=17, 5.882% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9033, critical = 0.851. Kappa = 2.181 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

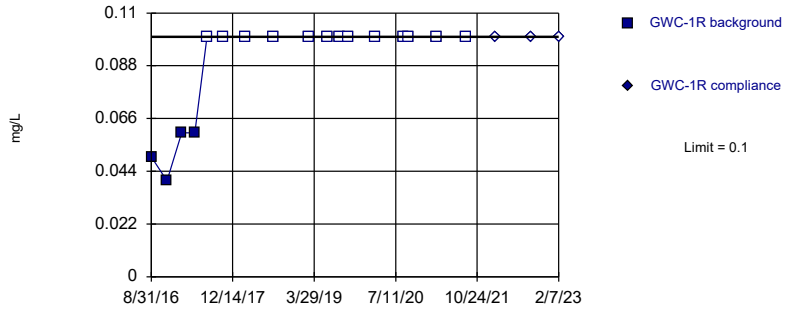
Constituent: Fluoride Analysis Run 5/2/2023 10:04 AM View: Appendix III - Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 17 background values. 76.47% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

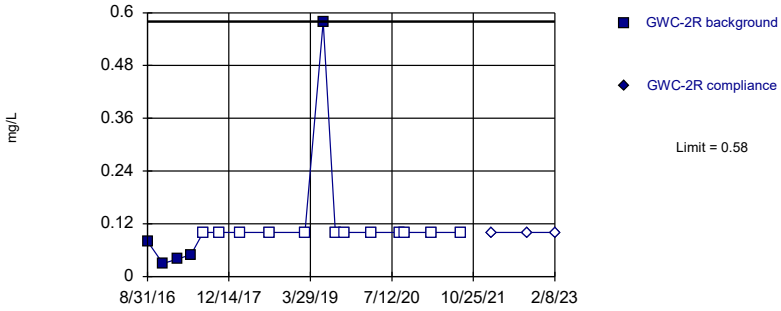
Constituent: Fluoride Analysis Run 5/2/2023 10:04 AM View: Appendix III - Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 17 background values. 70.59% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

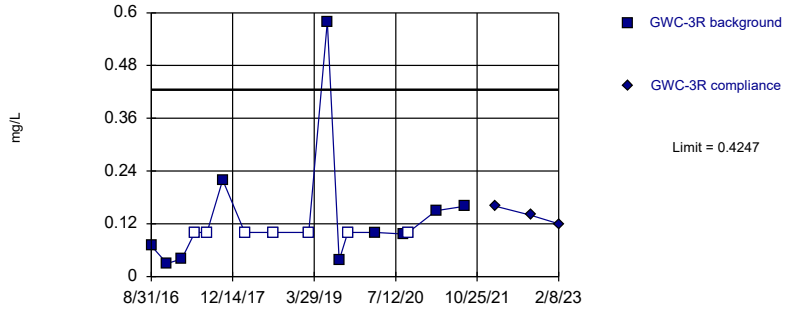
Constituent: Fluoride Analysis Run 5/2/2023 10:04 AM View: Appendix III - Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-2.596, Std. Dev.=0.7975, n=17, 41.18% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8757, critical = 0.851. Kappa = 2.181 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

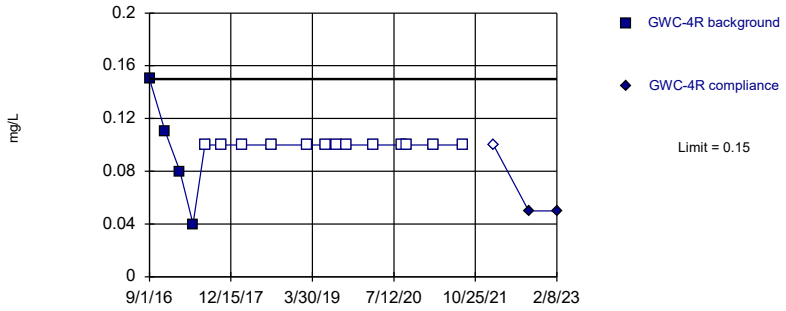
Constituent: Fluoride Analysis Run 5/2/2023 10:04 AM View: Appendix III - Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 17 background values. 76.47% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

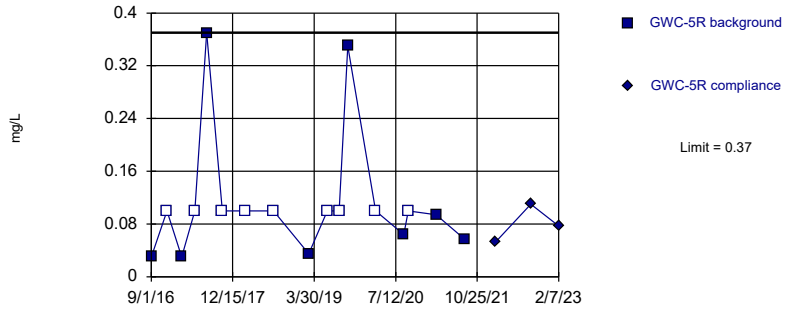
Constituent: Fluoride Analysis Run 5/2/2023 10:04 AM View: Appendix III - Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 17 background values. 52.94% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

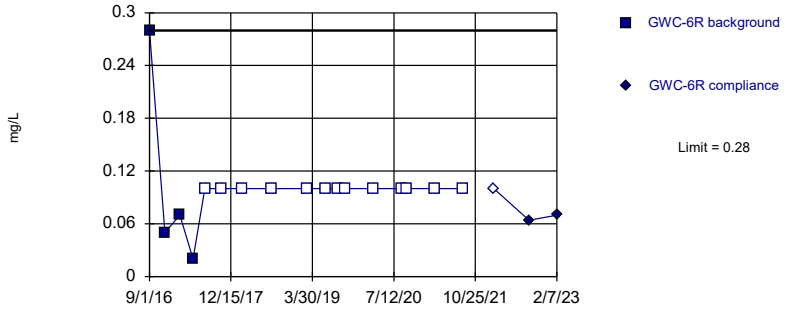
Constituent: Fluoride Analysis Run 5/2/2023 10:04 AM View: Appendix III - Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 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 17 background values. 76.47% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

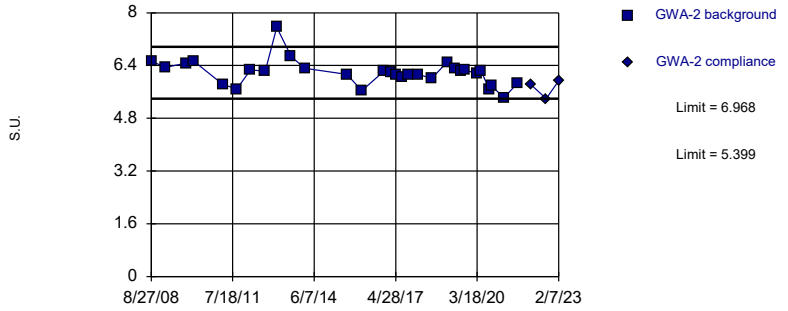
Constituent: Fluoride Analysis Run 5/2/2023 10:04 AM View: Appendix III - Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Within Limits

Prediction Limit

Intrawell Parametric



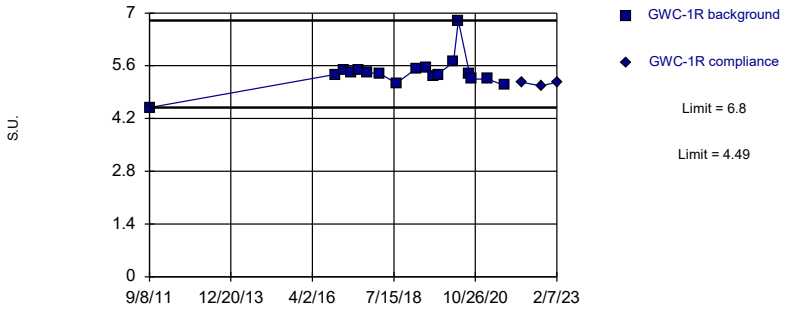
Background Data Summary: Mean=6.184, Std. Dev.=0.3941, n=30. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9085, critical = 0.9. Kappa = 1.991 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: pH Analysis Run 5/2/2023 10:04 AM View: Appendix III - 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 18 background values. Well-constituent pair annual alpha = 0.02143. Individual comparison alpha = 0.01075 (1 of 2).

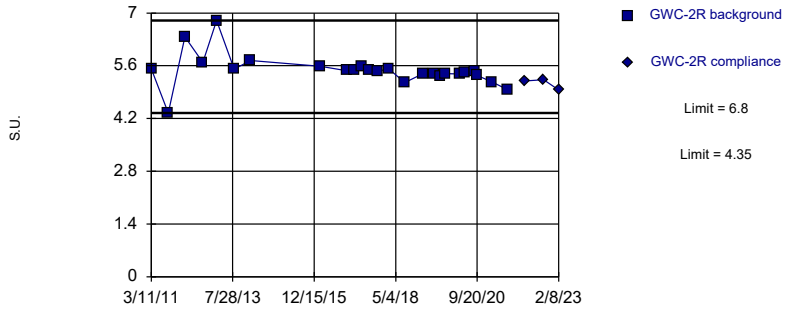
Constituent: pH Analysis Run 5/2/2023 10:04 AM View: Appendix III - Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

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 25 background values. Well-constituent pair annual alpha = 0.01131. Individual comparison alpha = 0.005664 (1 of 2).

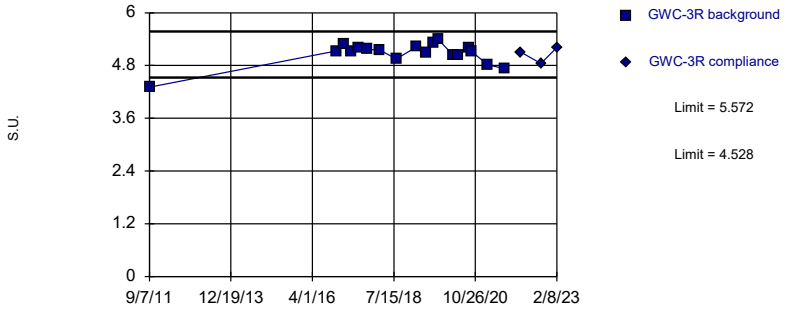
Constituent: pH Analysis Run 5/2/2023 10:04 AM View: Appendix III - Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Within Limits

Prediction Limit

Intrawell Parametric



Background Data Summary (based on square transformation): Mean=25.78, Std. Dev.=2.447, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8717, critical = 0.858. Kappa = 2.157 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

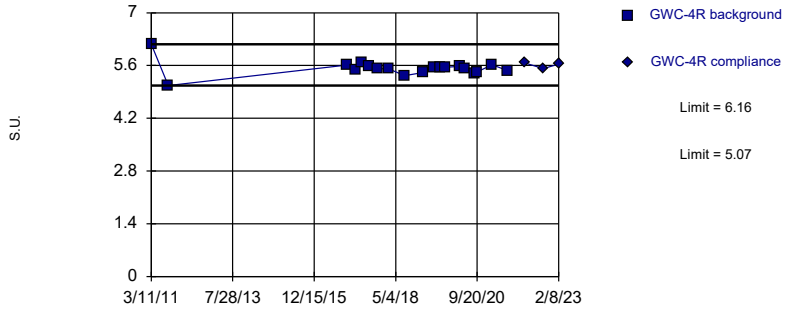
Constituent: pH Analysis Run 5/2/2023 10:04 AM View: Appendix III - Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

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 19 background values. Well-constituent pair annual alpha = 0.01928. Individual comparison alpha = 0.009664 (1 of 2).

Constituent: pH Analysis Run 5/2/2023 10:04 AM View: Appendix III - Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limits

Prediction Limit

Intrawell Parametric

Background Data Summary: Mean=5.084, Std. Dev.=0.2272, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9657, critical = 0.863. Kappa = 2.132 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

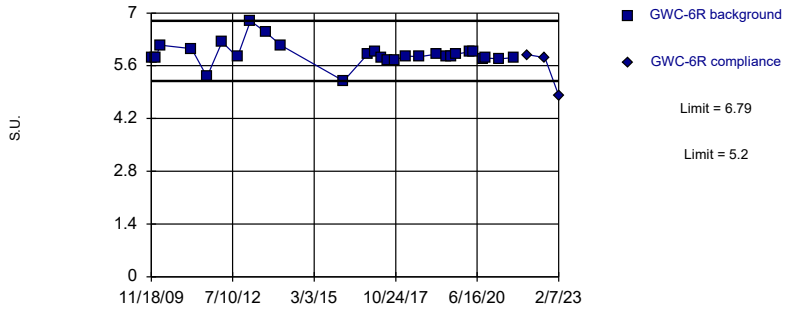
Constituent: pH Analysis Run 5/2/2023 10:04 AM View: Appendix III - Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Exceeds 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 28 background values. Well-constituent pair annual alpha = 0.009338. Individual comparison alpha = 0.004674 (1 of 2).

Constituent: pH Analysis Run 5/2/2023 10:04 AM View: Appendix III - Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2023 10:06 AM View: Appendix III - 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)	
2/8/2022		0.064 (J)
8/30/2022		0.086 (J)
2/7/2023		0.095 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2023 10:06 AM View: Appendix III - 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	
2/8/2022		<0.1
8/30/2022		<0.1
2/7/2023		<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2023 10:06 AM View: Appendix III - 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	
2/9/2022		<0.1
8/31/2022		<0.1
2/8/2023		<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2023 10:06 AM View: Appendix III - 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	
2/8/2022		0.16
8/30/2022		0.14
2/8/2023		0.12

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2023 10:06 AM View: Appendix III - 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	
2/8/2022		<0.1
8/30/2022		0.05 (J)
2/8/2023		0.05 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2023 10:06 AM View: Appendix III - 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)	
2/9/2022		0.053 (J)
8/30/2022		0.11
2/7/2023		0.077 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2023 10:06 AM View: Appendix III - 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	
2/8/2022		<0.1
8/30/2022		0.064 (J)
2/7/2023		0.07 (J)

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2023 10:06 AM View: Appendix III - 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	
2/8/2022		5.83
8/30/2022		5.39
2/7/2023		5.94

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2023 10:06 AM View: Appendix III - 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	
2/8/2022		5.16
8/30/2022		5.07
2/7/2023		5.16

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2023 10:06 AM View: Appendix III - 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	
2/9/2022		5.2
8/31/2022		5.23
2/8/2023		4.96

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2023 10:06 AM View: Appendix III - 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	
2/8/2022		5.1
8/30/2022		4.85
2/8/2023		5.21

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2023 10:06 AM View: Appendix III - 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	
2/8/2022		5.67
8/30/2022		5.52
2/8/2023		5.64

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2023 10:06 AM View: Appendix III - 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	
2/9/2022		4.82
8/30/2022		4.86
2/7/2023		4.62

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2023 10:06 AM View: Appendix III - 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	
2/8/2022		5.89
8/30/2022		5.82
2/7/2023		4.81

FIGURE F.

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/2/2023, 10:20 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**GWC-2R**	**0.16**	**n/a**	**2/8/2023**	**0.22**	**Yes**	**369**	**n/a**	**n/a**	**49.86**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	**GWC-4R**	**0.16**	**n/a**	**2/8/2023**	**2.7**	**Yes**	**369**	**n/a**	**n/a**	**49.86**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-1R**	**37**	**n/a**	**2/7/2023**	**179**	**Yes**	**369**	**n/a**	**n/a**	**0.813**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-2R**	**37**	**n/a**	**2/8/2023**	**48**	**Yes**	**369**	**n/a**	**n/a**	**0.813**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-4R**	**37**	**n/a**	**2/8/2023**	**39**	**Yes**	**369**	**n/a**	**n/a**	**0.813**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-5R**	**37**	**n/a**	**2/7/2023**	**112**	**Yes**	**369**	**n/a**	**n/a**	**0.813**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GWC-2R**	**12**	**n/a**	**2/8/2023**	**12.3**	**Yes**	**369**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**GWC-4R**	**12**	**n/a**	**2/8/2023**	**121**	**Yes**	**369**	**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**	**2/7/2023**	**922**	**Yes**	**369**	**n/a**	**n/a**	**5.962**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GWC-2R**	**160**	**n/a**	**2/8/2023**	**288**	**Yes**	**369**	**n/a**	**n/a**	**5.962**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GWC-5R**	**160**	**n/a**	**2/7/2023**	**935**	**Yes**	**369**	**n/a**	**n/a**	**5.962**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
TDS (mg/L)	**GWC-1R**	**219.6**	**n/a**	**2/7/2023**	**1400**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-2R**	**219.6**	**n/a**	**2/8/2023**	**540**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-4R**	**219.6**	**n/a**	**2/8/2023**	**718**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-5R**	**219.6**	**n/a**	**2/7/2023**	**1370**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-6R**	**219.6**	**n/a**	**2/7/2023**	**259**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**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 5/2/2023, 10:20 AM

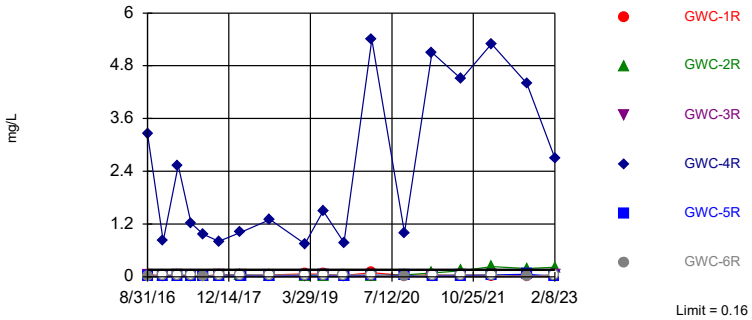
Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	GWC-1R	0.16	n/a	2/7/2023	0.015J	No	369	n/a	n/a	49.86	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	**GWC-2R**	**0.16**	**n/a**	**2/8/2023**	**0.22**	**Yes**	**369**	**n/a**	**n/a**	**49.86**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	GWC-3R	0.16	n/a	2/8/2023	0.04ND	No	369	n/a	n/a	49.86	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	**GWC-4R**	**0.16**	**n/a**	**2/8/2023**	**2.7**	**Yes**	**369**	**n/a**	**n/a**	**49.86**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Boron (mg/L)	GWC-5R	0.16	n/a	2/7/2023	0.017J	No	369	n/a	n/a	49.86	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Boron (mg/L)	GWC-6R	0.16	n/a	2/7/2023	0.04ND	No	369	n/a	n/a	49.86	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GWC-1R**	**37**	**n/a**	**2/7/2023**	**179**	**Yes**	**369**	**n/a**	**n/a**	**0.813**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-2R**	**37**	**n/a**	**2/8/2023**	**48**	**Yes**	**369**	**n/a**	**n/a**	**0.813**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	GWC-3R	37	n/a	2/8/2023	11.2	No	369	n/a	n/a	0.813	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Calcium (mg/L)	**GWC-4R**	**37**	**n/a**	**2/8/2023**	**39**	**Yes**	**369**	**n/a**	**n/a**	**0.813**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	**GWC-5R**	**37**	**n/a**	**2/7/2023**	**112**	**Yes**	**369**	**n/a**	**n/a**	**0.813**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Calcium (mg/L)	GWC-6R	37	n/a	2/7/2023	30.8	No	369	n/a	n/a	0.813	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-1R	12	n/a	2/7/2023	6.2	No	369	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	**GWC-2R**	**12**	**n/a**	**2/8/2023**	**12.3**	**Yes**	**369**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	GWC-3R	12	n/a	2/8/2023	3.4	No	369	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	**GWC-4R**	**12**	**n/a**	**2/8/2023**	**121**	**Yes**	**369**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	GWC-5R	12	n/a	2/7/2023	2.1	No	369	n/a	n/a	0	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Chloride (mg/L)	GWC-6R	12	n/a	2/7/2023	7.9	No	369	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**	**2/7/2023**	**922**	**Yes**	**369**	**n/a**	**n/a**	**5.962**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	**GWC-2R**	**160**	**n/a**	**2/8/2023**	**288**	**Yes**	**369**	**n/a**	**n/a**	**5.962**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GWC-3R	160	n/a	2/8/2023	43.3	No	369	n/a	n/a	5.962	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	GWC-4R	160	n/a	2/8/2023	87.8	No	369	n/a	n/a	5.962	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
Sulfate (mg/L)	**GWC-5R**	**160**	**n/a**	**2/7/2023**	**935**	**Yes**	**369**	**n/a**	**n/a**	**5.962**	**n/a**	**n/a**	**0.0000492**	**NP Inter (normality) 1 of 2**
Sulfate (mg/L)	GWC-6R	160	n/a	2/7/2023	110	No	369	n/a	n/a	5.962	n/a	n/a	0.0000492	NP Inter (normality) 1 of 2
TDS (mg/L)	**GWC-1R**	**219.6**	**n/a**	**2/7/2023**	**1400**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-2R**	**219.6**	**n/a**	**2/8/2023**	**540**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	GWC-3R	219.6	n/a	2/8/2023	101	No	369	10.11	2.582	0.542	None	sqrt(x)	0.001254	Param Inter 1 of 2
TDS (mg/L)	**GWC-4R**	**219.6**	**n/a**	**2/8/2023**	**718**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-5R**	**219.6**	**n/a**	**2/7/2023**	**1370**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**
TDS (mg/L)	**GWC-6R**	**219.6**	**n/a**	**2/7/2023**	**259**	**Yes**	**369**	**10.11**	**2.582**	**0.542**	**None**	**sqrt(x)**	**0.001254**	**Param Inter 1 of 2**

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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 369 background values. 49.86% NDs. Annual per-constituent alpha = 0.0005902. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 6 points to limit.

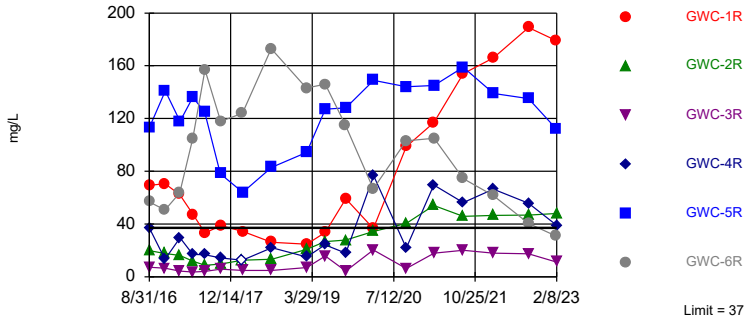
Constituent: Boron Analysis Run 5/2/2023 10:18 AM View: Appendix III - Interwell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Exceeds Limit: GWC-1R, GWC-2R, GWC-4R, GWC-5R

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 369 background values. 0.813% NDs. Annual per-constituent alpha = 0.0005902. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 6 points to limit.

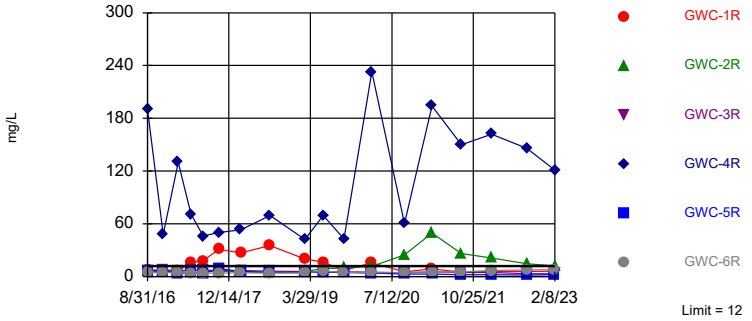
Constituent: Calcium Analysis Run 5/2/2023 10:18 AM View: Appendix III - Interwell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

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 369 background values. Annual per-constituent alpha = 0.0005902. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 6 points to limit.

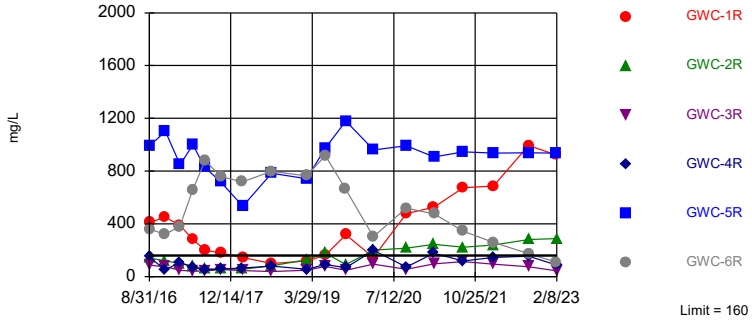
Constituent: Chloride Analysis Run 5/2/2023 10:18 AM View: Appendix III - Interwell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Exceeds Limit: GWC-1R, GWC-2R, GWC-5R

Prediction Limit

Interwell Non-parametric



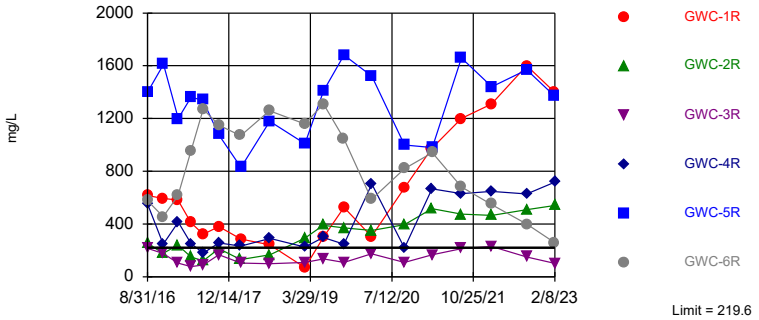
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 369 background values. 5.962% NDs. Annual per-constituent alpha = 0.0005902. Individual comparison alpha = 0.0000492 (1 of 2). Comparing 6 points to limit.

Constituent: Sulfate Analysis Run 5/2/2023 10:18 AM View: Appendix III - 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=10.11, Std. Dev.=2.582, n=369, 0.542% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 12.71, 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 5/2/2023 10:18 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)
6/1/2016	<0.04	<0.04	<0.04						
6/2/2016				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
6/6/2016									
6/7/2016									
7/25/2016	<0.04		<0.04						<0.04
7/26/2016		0.0055 (J)		0.0177 (J)	<0.04	0.0097 (J)	0.0052 (J)	0.0047 (J)	
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016		<0.04	<0.04						
9/14/2016	<0.04				0.01 (J)		0.0071 (J)	<0.04	
9/15/2016				0.0214 (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			0.0161 (J)		<0.04			<0.04
4/27/2017		0.0066 (J)	<0.04						
4/28/2017									
5/1/2017							0.0061 (J)	<0.04	
5/2/2017					<0.04				
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		0.0087 (J)	0.006 (J)		<0.04		0.0079 (J)		
6/28/2017	<0.04					<0.04			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)
6/29/2017								<0.04	
6/30/2017				0.0173 (J)					<0.04
7/11/2017									
7/17/2017									
7/18/2017									
10/3/2017		0.0072 (J)	0.0071 (J)		<0.04		0.0094 (J)		
10/4/2017	<0.04					<0.04			<0.04
10/5/2017				0.0173 (J)				<0.04	
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
10/17/2017									
10/18/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
2/21/2018									
4/2/2018									
4/3/2018									
6/5/2018		0.0052 (J)							
6/6/2018			<0.04				0.0098 (J)		
6/7/2018					<0.04	0.004 (J)		0.0045 (J)	
6/8/2018	<0.04			0.013 (J)					
6/11/2018									0.014 (J)
6/28/2018									
8/6/2018									
8/7/2018									
8/8/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					0.0057 (J)		0.01 (J)	0.005 (J)	
10/1/2018	<0.04	0.021 (J)	0.0049 (J)	0.015 (J)		<0.04			
10/2/2018									<0.04
2/25/2019									
2/26/2019									
3/26/2019									
3/27/2019									
3/28/2019		0.005 (J)	<0.04						
3/29/2019				0.014 (J)					
4/1/2019	<0.04					<0.04			<0.04
4/2/2019									
4/3/2019					0.0044 (J)		0.0076 (J)	0.0055 (J)	
6/12/2019									
6/13/2019									
9/24/2019		0.0064 (J)	0.0055 (J)		0.0049 (J)		0.01 (J)		
9/25/2019	<0.04			0.018 (J)		0.0054 (J)		<0.04	<0.04
9/26/2019									
10/8/2019									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)
10/9/2019									
10/10/2019									
3/17/2020									
3/18/2020			0.0087 (J)	0.02 (J)					
3/19/2020	0.0053 (J)	0.0085 (J)				0.0073 (J)			0.0052 (J)
3/24/2020					0.0068 (J)		0.011 (J)		
3/25/2020								0.011 (J)	
9/22/2020					0.0053 (J)		0.0079 (J)	<0.04	
9/23/2020	0.0073 (J)	<0.04	<0.04			0.012 (J)			
9/24/2020									0.0075 (J)
9/25/2020				0.02 (J)					
3/1/2021									<0.04
3/2/2021				0.017 (J)	0.011 (J)		0.0068 (J)		
3/3/2021	<0.04	<0.04	<0.04			<0.04		0.0056 (J)	
3/4/2021									
8/18/2021									
8/19/2021		<0.04	<0.04	0.018 (J)		<0.04			<0.04
8/20/2021									
8/26/2021					<0.04		0.009 (J)	<0.04	
8/27/2021	<0.04								
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	<0.04	<0.04	<0.04			0.01 (J)			
2/10/2022				0.02 (J)	<0.04		0.011 (J)		
2/11/2022								<0.04	<0.04
8/30/2022		<0.04			<0.04		0.0098 (J)		
8/31/2022	<0.04		<0.04	0.015 (J)		<0.04		<0.04	<0.04
2/7/2023		<0.04	<0.04				<0.04		
2/8/2023	<0.04			0.015 (J)		<0.04			<0.04
2/9/2023					<0.04			<0.04	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
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	0.008 (J)		<0.04				
7/28/2016				<0.04					
8/30/2016						0.0166 (J)			
8/31/2016							0.0305 (J)	0.0315 (J)	0.0315 (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	0.0077 (J)	<0.04					
11/4/2016									
11/14/2016						0.0166 (J)			
11/28/2016							0.0206 (J)	0.0095 (J)	
11/29/2016									
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							0.0192 (J)	<0.04	
2/23/2017									<0.04
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)
5/10/2017							0.0179 (J)		
5/26/2017									
6/27/2017									
6/28/2017	0.0079 (J)	<0.04							

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
6/29/2017			0.0074 (J)	<0.04	<0.04				
6/30/2017									
7/11/2017						0.0131 (J)			
7/17/2017								0.0092 (J)	
7/18/2017							0.0169 (J)		0.0073 (J)
10/3/2017				<0.04					
10/4/2017	0.009 (J)		0.0077 (J)		<0.04				
10/5/2017		<0.04							
10/10/2017						0.0124 (J)			
10/11/2017									
10/12/2017									
10/16/2017								<0.04	
10/17/2017							0.0168 (J)		
10/18/2017									<0.04
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								<0.04	
2/20/2018							<0.04		
2/21/2018									0.0399 (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)
8/8/2018							0.017 (J)		
9/19/2018						0.012 (J)			
9/24/2018									
9/25/2018	0.007 (J)	0.0046 (J)	0.0096 (J)	0.0054 (J)	<0.04				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								<0.04	
2/26/2019							0.017 (J)		0.0053 (J)
3/26/2019									
3/27/2019						0.013 (J)			
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			0.0066 (J)	0.011 (J)					
4/3/2019	0.0053 (J)	<0.04			<0.04				
6/12/2019							0.013 (J)	<0.04	
6/13/2019									<0.04
9/24/2019				0.018 (J)					
9/25/2019			0.0081 (J)		<0.04				
9/26/2019	0.0072 (J)	0.0062 (J)							
10/8/2019						0.012 (J)		<0.04	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
10/9/2019							0.018 (J)		
10/10/2019									0.0061 (J)
3/17/2020						0.023 (J)		0.0051 (J)	0.0099 (J)
3/18/2020							0.026 (J)		
3/19/2020									
3/24/2020	0.01 (J)	0.0054 (J)	0.0092 (J)	0.016 (J)	<0.04				
3/25/2020									
9/22/2020						0.0076 (J)	0.046 (J)	0.0079 (J)	0.0066 (J)
9/23/2020	0.006 (J)	0.021 (J)	0.0066 (J)						
9/24/2020				0.013 (J)	0.0094 (J)				
9/25/2020									
3/1/2021						0.013 (J)	0.087		
3/2/2021								<0.04	0.0071 (J)
3/3/2021	0.0094 (J)	<0.04	0.01 (J)		<0.04				
3/4/2021				0.0079 (J)					
8/18/2021							0.14		<0.04
8/19/2021						0.011 (J)			
8/20/2021								<0.04	
8/26/2021	<0.04								
8/27/2021		<0.04	0.011 (J)		<0.04				
9/1/2021				<0.04					
9/3/2021									
2/8/2022						0.015 (J)		<0.04	<0.04
2/9/2022	<0.04	<0.04	0.0098 (J)	<0.04	<0.04		0.23		
2/10/2022									
2/11/2022									
8/30/2022	0.014 (J)	<0.04	0.013 (J)	0.012 (J)				<0.04	0.014 (J)
8/31/2022					<0.04	0.0091 (J)	0.19		
2/7/2023	<0.04	<0.04	0.014 (J)	<0.04	<0.04			<0.04	
2/8/2023						0.011 (J)	0.22		<0.04
2/9/2023									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	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	0.0553 (J)						
9/1/2016		0.0108 (J)	3.25	0.0191 (J)			
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							
11/29/2016	0.0149 (J)	<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							
2/23/2017	0.0082 (J)	<0.04					
2/24/2017			2.53	0.0067 (J)			
3/1/2017							
3/2/2017							
3/3/2017					<0.04		
3/6/2017							
3/7/2017							
3/8/2017							
4/26/2017							
4/27/2017							
4/28/2017					<0.04		
5/1/2017							
5/2/2017							
5/8/2017							
5/9/2017	0.0097 (J)						
5/10/2017		<0.04	1.22	0.0068 (J)			
5/26/2017					<0.04		
6/27/2017							
6/28/2017					<0.04		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	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	0.0123 (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	0.0513		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			1.01			<0.04	
2/21/2018	0.0378 (J)			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	0.043			0.012 (J)		0.024 (J)	0.12
8/8/2018			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	0.062		0.75	0.033 (J)			
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			1.5				
6/13/2019	0.057	<0.04		0.03 (J)			
9/24/2019					0.0076 (J)		
9/25/2019							
9/26/2019							
10/8/2019		<0.04					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	0.029 (J)			0.013 (J)		0.017 (J)	0.079
10/10/2019			0.78				
3/17/2020	0.092 (J)	<0.04					
3/18/2020			5.4	0.034 (J)			
3/19/2020					0.0073 (J)		
3/24/2020							0.088 (J)
3/25/2020						0.043 (J)	
9/22/2020	0.025 (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	0.046		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	0.029 (J)	<0.04	4.5	0.021 (J)			
8/19/2021							
8/20/2021							
8/26/2021						0.095	
8/27/2021					<0.04		
9/1/2021							
9/3/2021							0.077
2/8/2022	0.021 (J)	<0.04	5.3			0.13	0.074
2/9/2022				0.043	<0.04		
2/10/2022							
2/11/2022							
8/30/2022	0.015 (J)	0.0092 (J)	4.4	0.058	<0.04		
8/31/2022						0.14	0.062
2/7/2023	0.015 (J)	<0.04		0.017 (J)	<0.04	0.13	
2/8/2023			2.7				0.057
2/9/2023							

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)
6/1/2016	21	12	2.5						
6/2/2016				1.3	2.4	28	33	8.8	1.3
6/6/2016									
6/7/2016									
7/25/2016	20.3		2.16						1.17
7/26/2016		11		1.24	2.12	24.5	32.3	7.69	
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016		11.8	2.21						
9/14/2016	19.7				2.18		31	8.49	
9/15/2016				1.17		27			
9/16/2016									
9/19/2016									1.05
11/1/2016	18.4	11				25.6			1.14
11/2/2016				1.23			30.9	7.83	
11/3/2016									
11/4/2016			2.67		2.17 (J)				
11/14/2016									
11/28/2016									
11/29/2016									
11/30/2016									
12/1/2016									
12/15/2016									
1/10/2017				1.24					
1/11/2017	20.3	11.2				27.5			
1/12/2017					2.37		35.7		
1/13/2017								8.08	
1/16/2017			2.45						1.23
2/21/2017									1.25
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	18.6								
3/2/2017		11	2.57			27.5			
3/3/2017									
3/6/2017								8.64	
3/7/2017					2.34		32.7		
3/8/2017				1.21					
4/26/2017	25.6			1.14		30.4			1.03
4/27/2017		11.1	2.38						
4/28/2017									
5/1/2017							37	13.4	
5/2/2017					2.17				
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		13.8	2.36		2.13		36.5		
6/28/2017	23.9					29.8			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)
6/29/2017								8.81	
6/30/2017				1.24					1.13
7/11/2017									
7/17/2017									
7/18/2017									
10/3/2017		14	2.21		2.15		30.9		
10/4/2017	22.1					29.7			1.09
10/5/2017				1.11				9.29	
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
10/17/2017									
10/18/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
2/21/2018									
4/2/2018									
4/3/2018									
6/5/2018		15.2 (J)							
6/6/2018			2.3				26.2		
6/7/2018					2.3	29.1		8.2	
6/8/2018	21.9 (J)			1.1					
6/11/2018									1.1
6/28/2018									
8/6/2018									
8/7/2018									
8/8/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					2.3		25.8	9.5 (J)	
10/1/2018	19.7	15.1	1.8	0.99		26.9			
10/2/2018									1.1
2/25/2019									
2/26/2019									
3/26/2019									
3/27/2019									
3/28/2019		13.3 (J)	2.2						
3/29/2019				1.1					
4/1/2019	20.4 (J)					30.1			1.3
4/2/2019									
4/3/2019					2.8		24.7 (J)	8.4	
6/12/2019									
6/13/2019									
9/24/2019		15.8	2.3		2.5		25.8		
9/25/2019	22.4			1.1		29.5		9.5	1.1
9/26/2019									
10/8/2019									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)
10/9/2019									
10/10/2019									
3/17/2020									
3/18/2020			2.1	1.1					
3/19/2020	21.9	15				31.5			1.2
3/24/2020					2.5		26.1		
3/25/2020								10.5	
9/22/2020					2.6		27.2	9.6	
9/23/2020	23.6	14.1	1.8			28.6			
9/24/2020									1.1
9/25/2020				1.3					
3/1/2021									1.2
3/2/2021				1.2	2.6		1.6		
3/3/2021	20.6	14.1	1.8			29.8		7.7	
3/4/2021									
8/18/2021									
8/19/2021		14.2	2	1.2		28.1			1.2
8/20/2021									
8/26/2021					2.5		25.2	7.6	
8/27/2021	24.7								
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	23.7	14.9	2.1			30.3			
2/10/2022				1.3	2.5		24.8		
2/11/2022								7.5	1.5
8/30/2022		14.9			2.5		24.8		
8/31/2022	23.5		1.9	1.3		28.7		8.9	1.3
2/7/2023		15	2.2				26.6		
2/8/2023	23.3			1.5		28.9			1.3
2/9/2023					2.8			9.6	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
6/1/2016									
6/2/2016									
6/6/2016	1.4	6.2							
6/7/2016			2.2	3.7	2.3				
7/25/2016									
7/26/2016									
7/27/2016	1.19	4.73	2		2.08				
7/28/2016				3.15					
8/30/2016						20.9			
8/31/2016							19.9	9.31	7.23
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	1.99	3.4					
11/4/2016									
11/14/2016						18.6			
11/28/2016							17.7 (B)	9.47 (B)	
11/29/2016									
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							16.2	10.4	
2/23/2017									4.25
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
5/10/2017							11.8		
5/26/2017									
6/27/2017									
6/28/2017	1.06	4.95							

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
6/29/2017			2.02	6.04	2.54				
6/30/2017									
7/11/2017						14.3			
7/17/2017								14.1	
7/18/2017							8.69		4.16
10/3/2017				8.28					
10/4/2017	1.1		2.03		2.25				
10/5/2017		5.28							
10/10/2017						12.1			
10/11/2017									
10/12/2017									
10/16/2017								13.6	
10/17/2017							9.77		
10/18/2017									5.67
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								<25	
2/20/2018							<25		
2/21/2018									4.76
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
8/8/2018							13.4 (J)		
9/19/2018						11.1 (J)			
9/24/2018									
9/25/2018	1	4.6	2.1	10.4 (J)	2.3				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								12.7 (J)	
2/26/2019							20.9 (J)		7.1
3/26/2019									
3/27/2019						10.8 (J)			
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			2.5	8.8					
4/3/2019	1.2	5.3			2.9				
6/12/2019							26.6	18.9	
6/13/2019									15.7
9/24/2019				7.7					
9/25/2019			2.6		2.4				
9/26/2019	1.1	4.9							
10/8/2019						9.7		28.3	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
10/9/2019							27.8		
10/10/2019									4.3
3/17/2020						14.8		24.3	20.3
3/18/2020							34.5		
3/19/2020									
3/24/2020	1	5.3	2.7	6	2.6				
3/25/2020									
9/22/2020						10.1	40.5	31	6.2
9/23/2020	0.91 (J)	5.2	2.6						
9/24/2020				7.8	2.6				
9/25/2020									
3/1/2021						10.3	54.1		
3/2/2021								34.2	17.9
3/3/2021	0.96 (J)	5.2	2.5		2.4				
3/4/2021				8.7					
8/18/2021							45.8		20.2
8/19/2021						9.6			
8/20/2021								26.5	
8/26/2021	0.98 (J)								
8/27/2021		5.1	2.7		2.4				
9/1/2021				9.5					
9/3/2021									
2/8/2022						9.4		25.6	17.9
2/9/2022	0.87 (J)	5.1	2.8	9.8	2.3		46.6		
2/10/2022									
2/11/2022									
8/30/2022	0.77 (J)	5.7	3	7.3				23.5	17.5
8/31/2022					2.4	9.6	46.9		
2/7/2023	0.79 (J)	5.5	2.9	7.5	2.4			22.3	
2/8/2023						9.2	48		11.2
2/9/2023									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	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	69.4						
9/1/2016		56.8	37.1	113			
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							
11/29/2016	70.6 (B)	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							
2/23/2017	62.4	63.5					
2/24/2017			29.5	118			
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	47.4						
5/10/2017		105	17	136			
5/26/2017					26.2		
6/27/2017							
6/28/2017					26.1		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	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	33.2	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	38.7		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			1.71	
2/21/2018	34.3			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	26.2			83		1.2	6.3
8/8/2018			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	24.7 (J)		15.1 (J)	94.4			
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			24.2				
6/13/2019	33.8	146		127			
9/24/2019					26.4		
9/25/2019							
9/26/2019							
10/8/2019		115					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	59.1			128		2.4	4.9
10/10/2019			18				
3/17/2020	36.7	66.8					
3/18/2020			76.6	149			
3/19/2020					27.4		
3/24/2020							4.8
3/25/2020						2.7	
9/22/2020	98.8		21.8				
9/23/2020		103		144	26.3		
9/24/2020						3.7	4.4
9/25/2020							
3/1/2021	117		69.5				
3/2/2021				145			
3/3/2021		105			25.6		
3/4/2021						8.2	4.6
8/18/2021	154	74.5	56.2	159			
8/19/2021							
8/20/2021							
8/26/2021						14.1	
8/27/2021					22.6		
9/1/2021							
9/3/2021							5.6
2/8/2022	166	61.5	66.5			15.2	6
2/9/2022				139	23.4		
2/10/2022							
2/11/2022							
8/30/2022	189	40.6	55.8	135	25.4		
8/31/2022						16.3	6.2
2/7/2023	179	30.8		112	25.6	16.1	
2/8/2023			39				5.9
2/9/2023							

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)
6/1/2016	1.3	1.3	1.6						
6/2/2016				4.1	4.3	1.4	7.2	3.7	1.9
6/6/2016									
6/7/2016									
7/25/2016	1.3		1.4						1.7
7/26/2016		1.2		4	4.4	1.6	6.6	3.6	
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016		1.1	1.3						
9/14/2016	1.3				3.8		6.6	3.4	
9/15/2016				4.2		1.5			
9/16/2016									
9/19/2016									1.6
11/1/2016	1.4	1.3				1.7			1.8
11/2/2016				4.9			7.6	4.5	
11/3/2016									
11/4/2016			1.6		4.8				
11/14/2016									
11/28/2016									
11/29/2016									
11/30/2016									
12/1/2016									
12/15/2016									
1/10/2017				4.1					
1/11/2017	1.1	1.1				1.2			
1/12/2017					3.8		6.8		
1/13/2017								4.2	
1/16/2017			1.4						1.7
2/21/2017									1.7
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	1.1								
3/2/2017		1	1.3			1.2			
3/3/2017									
3/6/2017								3.6	
3/7/2017					4.5		6.8		
3/8/2017				4.2					
4/26/2017	1.1			4.1		1.2			1.7
4/27/2017		1	1.3						
4/28/2017									
5/1/2017							7.2	4.3	
5/2/2017					4.6				
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		1.1	1.4		4.3		7		
6/28/2017	1.2					1.3			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)
6/29/2017								4.2	
6/30/2017				3.7					1.8
7/11/2017									
7/17/2017									
7/18/2017									
10/3/2017		1.1	1.7		4.2		6.5		
10/4/2017	1.2					1.5			1.8
10/5/2017				3.8				4.7	
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
10/17/2017									
10/18/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
2/21/2018									
4/2/2018									
4/3/2018									
6/5/2018		1.1							
6/6/2018			1.4				4.7		
6/7/2018					4.5	1.2		4.4	
6/8/2018	1.2			3.4					
6/11/2018									2
6/28/2018									
8/6/2018									
8/7/2018									
8/8/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					5.1		4.8	4.8	
10/1/2018	1.2	1.1	1.4	3.8		1.5			
10/2/2018									1.8
2/25/2019									
2/26/2019									
3/26/2019									
3/27/2019									
3/28/2019		1.4	1.5						
3/29/2019				4.2					
4/1/2019	1.1					1.2			1.7
4/2/2019									
4/3/2019					4.2		4	4.3	
6/12/2019									
6/13/2019									
9/24/2019		1.1	1.3		4.5		3.7		
9/25/2019	1.1			4.8		1.1		4.5	1.6
9/26/2019									
10/8/2019									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)
10/9/2019									
10/10/2019									
3/17/2020									
3/18/2020			1.4	5.2					
3/19/2020	1.1	1.1				1.2			1.8
3/24/2020					4.3		3.5		
3/25/2020								3.9	
9/22/2020					4.2		3.6	4.5	
9/23/2020	1	0.99 (J)	1.2			1.1			
9/24/2020									1.5
9/25/2020				5.3					
3/1/2021									1.6
3/2/2021				4.9	4.3		3.2		
3/3/2021	0.99 (J)	0.96 (J)	1.2			1.1		4.1	
3/4/2021									
8/18/2021									
8/19/2021		1.1	1.3	5		1.1			1.6
8/20/2021									
8/26/2021					4.3		3.4	4.4	
8/27/2021	1.1								
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	1.1	1	1.3			1.1			
2/10/2022				4.7	4.4		3.2		
2/11/2022								4.1	2.1
8/30/2022		1.3			4.4		3.5		
8/31/2022	1.3		1.5	4.6		1.3		4.4	1.8
2/7/2023		1.3	1.5				3.3		
2/8/2023	1.1			4.9		1.2			1.6
2/9/2023					5			4.5	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
6/1/2016									
6/2/2016									
6/6/2016	6.4	6.8							
6/7/2016			4.5	2.8	1.9				
7/25/2016									
7/26/2016									
7/27/2016	6.2	6.7	4.5		1.9				
7/28/2016				2.6					
8/30/2016						5.2			
8/31/2016							6.3	4	6.7
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	5.4	2.9					
11/4/2016									
11/14/2016						6.4			
11/28/2016							6.7	4.2	
11/29/2016									
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							5.7	3.7	
2/23/2017									6.5
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
5/10/2017							7.1		
5/26/2017									
6/27/2017									
6/28/2017	6.4	7							

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
6/29/2017			4.5	2.8	2.6				
6/30/2017									
7/11/2017						5.8			
7/17/2017								3.8	
7/18/2017							6		7.7
10/3/2017				2.2					
10/4/2017	6.8		4.7		2.6				
10/5/2017		7							
10/10/2017						5.9			
10/11/2017									
10/12/2017									
10/16/2017								4.2	
10/17/2017							6.1		
10/18/2017									6.5
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								4.3	
2/20/2018							5.8		
2/21/2018									6.7
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
8/8/2018							4.7		
9/19/2018						4			
9/24/2018									
9/25/2018	7.8	7.9	5.6	2.2	3.6				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								4.1	
2/26/2019							5.7		5.7
3/26/2019									
3/27/2019						4.3			
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			4.8	2.5					
4/3/2019	6.3	6.9			3.1				
6/12/2019							9.1	4.7	
6/13/2019									5
9/24/2019				3.1					
9/25/2019			5.7		2.8				
9/26/2019	7.1	7							
10/8/2019						4.4		5.1	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
10/9/2019							9.8		
10/10/2019									5.3
3/17/2020						4.1		4.8	5.2
3/18/2020							11.7		
3/19/2020									
3/24/2020	6.8	7	5	2.8	2.7				
3/25/2020									
9/22/2020						4.2	24.7	4.2	4.2
9/23/2020	7.2	7.2	6.6						
9/24/2020				2	2.7				
9/25/2020									
3/1/2021						3.7	49.6		
3/2/2021								4.1	5.5
3/3/2021	7.2	7	7.1		2.7				
3/4/2021				1.8					
8/18/2021							26.2		4.6
8/19/2021						3.5			
8/20/2021								5.2	
8/26/2021	7.3								
8/27/2021		7.4	8.5		2.8				
9/1/2021				1.8					
9/3/2021									
2/8/2022						3.2		5.7	4.5
2/9/2022	7	7.5	10.9	1.7	2.8		21.2		
2/10/2022									
2/11/2022									
8/30/2022	7	7.9	12	2.4				6.3	3.1
8/31/2022					2.9	3.5	14.5		
2/7/2023	6.4	7.4	11.4	2.4	2.9			6.1	
2/8/2023						3.5	12.3		3.4
2/9/2023									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	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	7.6						
9/1/2016		4.4	190	6.6			
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							
11/29/2016	5.8	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							
2/23/2017	6.2	4.4					
2/24/2017			130	3.4			
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	16						
5/10/2017		3.9	71	4.5			
5/26/2017					0.93		
6/27/2017							
6/28/2017					1		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	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	18	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	31		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			53.1			2	
2/21/2018	27			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	35.4			4.7		1.2	4.3
8/8/2018			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	20		42.2	4.2			
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			69.5				
6/13/2019	16.4	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 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	6.9			4.5		2.1	5.1
10/10/2019			42.8				
3/17/2020	15.5	4.4					
3/18/2020			233	3.8			
3/19/2020					0.97 (J)		
3/24/2020							4.7
3/25/2020						1.9	
9/22/2020	5.5		60.2				
9/23/2020		4.7		3	0.88 (J)		
9/24/2020						2.7	5
9/25/2020							
3/1/2021	8.6		194				
3/2/2021				2.9			
3/3/2021		5			0.86 (J)		
3/4/2021						4.9	4.9
8/18/2021	5.2	5.4	150	2.3			
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
2/8/2022	5.6	6.9	162			7.4	6.2
2/9/2022				2	1 (J)		
2/10/2022							
2/11/2022							
8/30/2022	5.6	7.5	146	1.8	1.2		
8/31/2022						6.7	6.3
2/7/2023	6.2	7.9		2.1	1.1	5.6	
2/8/2023			121				6.9
2/9/2023							

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)
6/1/2016	12	5	4.2						
6/2/2016				6.6	1.9	5.8	20	8	1.3
6/6/2016									
6/7/2016									
7/25/2016	8.4		3.7						1.2
7/26/2016		5.4		6.1	1.8	6.7	20	7.7	
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016		2.9	5.2						
9/14/2016	8.6				1.8		19	7.5	
9/15/2016				6.1		6			
9/16/2016									
9/19/2016									1.2
11/1/2016	8.9	3.9				4.9			1.3
11/2/2016				6.3			20	8.2	
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			7		5.1			1.4
4/27/2017		5.2	7.4						
4/28/2017									
5/1/2017							20	8.4	
5/2/2017					2				
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		5.9	6.4		2.1		18		
6/28/2017	12					5.4			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)
6/29/2017								9.2	
6/30/2017				6.5					<1
7/11/2017									
7/17/2017									
7/18/2017									
10/3/2017		6.6	5.9		2.3		16		
10/4/2017	12					6.2			1.4
10/5/2017				7.9				9.6	
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
10/17/2017									
10/18/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
2/21/2018									
4/2/2018									
4/3/2018									
6/5/2018		6.4							
6/6/2018			4.4				8.3		
6/7/2018					2	6.7		8.5	
6/8/2018	9.6			6.4					
6/11/2018									1.1
6/28/2018									
8/6/2018									
8/7/2018									
8/8/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					2.3		7.9	10.2	
10/1/2018	9.1	5.6	4	6.8		7.1			
10/2/2018									1
2/25/2019									
2/26/2019									
3/26/2019									
3/27/2019									
3/28/2019		8	4.3						
3/29/2019				7.3					
4/1/2019	8.5					7.2			0.96 (J)
4/2/2019									
4/3/2019					2.1		7	8.5	
6/12/2019									
6/13/2019									
9/24/2019		5.3	4.3		2.4		5.5		
9/25/2019	13.8			6.6		7		8.5	0.81 (J)
9/26/2019									
10/8/2019									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)
10/9/2019									
10/10/2019									
3/17/2020									
3/18/2020			5.3	8.1					
3/19/2020	12.9	10				9			1.6
3/24/2020					2.1		5.9		
3/25/2020								8.8	
9/22/2020					2.1		5.5	8.2	
9/23/2020	16.8	8.1	3.4			6.9			
9/24/2020									0.69 (J)
9/25/2020				6.1					
3/1/2021									0.88 (J)
3/2/2021				6	2.3		2.6		
3/3/2021	9.6	9	4.4			7		7.8	
3/4/2021									
8/18/2021									
8/19/2021		8.9	4.9	6.7		7.5			1
8/20/2021									
8/26/2021					2.4		6	8.5	
8/27/2021	18.2								
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	16	9.3	5.1			7.2			
2/10/2022				6.2	2.4		4.9		
2/11/2022								7.7	2.8
8/30/2022		10.2			2.4		5.7		
8/31/2022	13.9		4.8	5.8		6.9		8	1.1
2/7/2023		10.6	6.6				5.2		
2/8/2023	14.7			6.1		7.5			0.96 (J)
2/9/2023					2.9			8.9	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
6/1/2016									
6/2/2016									
6/6/2016	1.8	1.2							
6/7/2016			4.4	5.2	<1				
7/25/2016									
7/26/2016									
7/27/2016	1.9	1.7	4.7		0.08 (J)				
7/28/2016				5.1					
8/30/2016						160			
8/31/2016							140	29	87
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)	5.3	5					
11/4/2016									
11/14/2016						150			
11/28/2016							120	36	
11/29/2016									
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							100	43	
2/23/2017									47
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
5/10/2017							80		
5/26/2017									
6/27/2017									
6/28/2017	<1	<1							

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
6/29/2017			5.2	5.5	<1				
6/30/2017									
7/11/2017						110			
7/17/2017								63	
7/18/2017							57		44
10/3/2017				5.8					
10/4/2017	1.7		5.3		<1				
10/5/2017		1.6							
10/10/2017						93			
10/11/2017									
10/12/2017									
10/16/2017								62	
10/17/2017							59		
10/18/2017									53
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								64.6	
2/20/2018							55.9		
2/21/2018									46.7
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
8/8/2018							81.1		
9/19/2018						75			
9/24/2018									
9/25/2018	1.5	1	6.1	7	0.13 (J)				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								42.1	
2/26/2019							129		49.3
3/26/2019									
3/27/2019						65.9			
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			5.1	3.8					
4/3/2019	1.3	0.82 (J)			0.12 (J)				
6/12/2019							180	83.4	
6/13/2019									77.1
9/24/2019				1					
9/25/2019			5.5		<1				
9/26/2019	1	0.64 (J)							
10/8/2019						52.3		128	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
10/9/2019							91.2		
10/10/2019									48
3/17/2020						71.6		98.6	95.2
3/18/2020							200		
3/19/2020									
3/24/2020	0.99 (J)	<1	5.4	3	<1				
3/25/2020									
9/22/2020						51.5	216	145	55.1
9/23/2020	1.1	0.53 (J)	5.1						
9/24/2020				3.6	<1				
9/25/2020									
3/1/2021						51.6	244		
3/2/2021								156	95.5
3/3/2021	1	<1	5.2		<1				
3/4/2021				4.5					
8/18/2021							223		114
8/19/2021						52.6			
8/20/2021								121	
8/26/2021	1.2								
8/27/2021		0.59 (J)	5.3		<1				
9/1/2021				5					
9/3/2021									
2/8/2022						50.9		107	93.5
2/9/2022	1.1	0.51 (J)	4.8	3.9	<1		241		
2/10/2022									
2/11/2022									
8/30/2022	1.3	0.78 (J)	4.7	3.2				101	76
8/31/2022					<1	48	280		
2/7/2023	1.2	0.78 (J)	4.9	3.8	<1			82.4	
2/8/2023						50.5	288		43.3
2/9/2023									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	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	410						
9/1/2016		360	150	990			
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							
11/29/2016	450	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							
2/23/2017	390	380					
2/24/2017			110	850			
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	280						
5/10/2017		660	70	1000			
5/26/2017					12		
6/27/2017							
6/28/2017					11		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	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	200	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	180		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			64.6			20.6	
2/21/2018	146			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	100			784		20.7	40.5
8/8/2018			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	118		55.8	742			
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			92.8				
6/13/2019	163	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 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	318			1180		15	27.9
10/10/2019			68.7				
3/17/2020	145	303					
3/18/2020			199	960			
3/19/2020					12.4		
3/24/2020							25.2
3/25/2020						14.3	
9/22/2020	478		72.1				
9/23/2020		518		992	11.8		
9/24/2020						11.7	22.9
9/25/2020							
3/1/2021	525		177				
3/2/2021				906			
3/3/2021		476			10.6		
3/4/2021						12	21.5
8/18/2021	675	345	118	946			
8/19/2021							
8/20/2021							
8/26/2021						19.2	
8/27/2021					16.7		
9/1/2021							
9/3/2021							21.3
2/8/2022	687	260	146			14.6	17.9
2/9/2022				937	18		
2/10/2022							
2/11/2022							
8/30/2022	994	174	155	939	20.1		
8/31/2022						10.9	17.9
2/7/2023	922	110		935	17.8	9.7	
2/8/2023			87.8				17.5
2/9/2023							

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)
6/1/2016	150	120	54						
6/2/2016				46	66	130	160	96	36
6/6/2016									
6/7/2016									
7/25/2016	135		48						50
7/26/2016		94		54	78	141	177	92	
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016		105	67						
9/14/2016	127				73		187	102	
9/15/2016				54		153			
9/16/2016									
9/19/2016									35
11/1/2016	75	44				92			<25
11/2/2016				71			181	115	
11/3/2016									
11/4/2016			60		75				
11/14/2016									
11/28/2016									
11/29/2016									
11/30/2016									
12/1/2016									
12/15/2016									
1/10/2017				45					
1/11/2017	148	107				159			
1/12/2017					86		202		
1/13/2017								67	
1/16/2017			65						47
2/21/2017									<25
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	182								
3/2/2017		98	61			117			
3/3/2017									
3/6/2017								159	
3/7/2017					108		257		
3/8/2017				178					
4/26/2017	92			52		181			55
4/27/2017		116	31						
4/28/2017									
5/1/2017							165	107	
5/2/2017					103				
5/8/2017									
5/9/2017									
5/10/2017									
5/26/2017									
6/27/2017		89	42		73		189		
6/28/2017	126					169			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)
6/29/2017								79	
6/30/2017				45					42
7/11/2017									
7/17/2017									
7/18/2017									
10/3/2017		119	58		89		170		
10/4/2017	147					141			31
10/5/2017				40				95	
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
10/17/2017									
10/18/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
2/21/2018									
4/2/2018									
4/3/2018									
6/5/2018		127							
6/6/2018			96				151		
6/7/2018					142	95		90	
6/8/2018	158			114					
6/11/2018									59
6/28/2018									
8/6/2018									
8/7/2018									
8/8/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					86		144	116	
10/1/2018	138	117	60	50		165			
10/2/2018									57
2/25/2019									
2/26/2019									
3/26/2019									
3/27/2019									
3/28/2019		87	87						
3/29/2019				63					
4/1/2019	19 (J)					149			54
4/2/2019									
4/3/2019					83		142	111	
6/12/2019									
6/13/2019									
9/24/2019		124	54		79		129		
9/25/2019	159			64		157		117	51
9/26/2019									
10/8/2019									

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-30I (bg)
10/9/2019									
10/10/2019									
3/17/2020									
3/18/2020			35	57					
3/19/2020	148	116				146			47
3/24/2020					68		139		
3/25/2020								146	
9/22/2020					75		104	83	
9/23/2020	155	108	15			157			
9/24/2020									51
9/25/2020				54					
3/1/2021									23
3/2/2021				67	67		52		
3/3/2021	111	99	39			137		80	
3/4/2021									
8/18/2021									
8/19/2021		105	44	54		144			50
8/20/2021									
8/26/2021					86		123	93	
8/27/2021	155								
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	145	105	57			154			
2/10/2022				56	77		127		
2/11/2022								102	66
8/30/2022		116			86		148		
8/31/2022	137		46	51		141		92	33
2/7/2023		131	121				180		
2/8/2023	145			56		144			43
2/9/2023					59			124	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
6/1/2016									
6/2/2016									
6/6/2016	58	120							
6/7/2016			28	60	38				
7/25/2016									
7/26/2016									
7/27/2016	35	94	74		74				
7/28/2016				81					
8/30/2016						319			
8/31/2016							257	209	216
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	41	61					
11/4/2016									
11/14/2016						280			
11/28/2016							177	102	
11/29/2016									
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							240	164	
2/23/2017									105
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
5/10/2017							149		
5/26/2017									
6/27/2017									
6/28/2017	45	98							

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
6/29/2017			53	94	68				
6/30/2017									
7/11/2017						193			
7/17/2017								185	
7/18/2017							122		89
10/3/2017				149					
10/4/2017	45		61		54				
10/5/2017		104							
10/10/2017						175			
10/11/2017									
10/12/2017									
10/16/2017								218	
10/17/2017							214		
10/18/2017									166
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018								173	
2/20/2018							131		
2/21/2018									105
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
8/8/2018							166		
9/19/2018						186			
9/24/2018									
9/25/2018	63	109	86	122	73				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019								92	
2/26/2019							293		109
3/26/2019									
3/27/2019						170			
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			72	134					
4/3/2019	63	89			57				
6/12/2019							391	226	
6/13/2019									136
9/24/2019				157					
9/25/2019			81		75				
9/26/2019	72	126							
10/8/2019						172		276	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWC-2R	GWA-2 (bg)	GWC-3R
10/9/2019							372		
10/10/2019									109
3/17/2020						165		185	175
3/18/2020							351		
3/19/2020									
3/24/2020	59	91	71	117	76				
3/25/2020									
9/22/2020						141	394	281	110
9/23/2020	81	103	99						
9/24/2020				113	69				
9/25/2020									
3/1/2021						145	516		
3/2/2021								296 (D)	167
3/3/2021	37	95	57		53				
3/4/2021				110					
8/18/2021							474		214
8/19/2021						134			
8/20/2021								254	
8/26/2021	31								
8/27/2021		112	93		67				
9/1/2021				137					
9/3/2021									
2/8/2022						151		283	231
2/9/2022	60	103	81	131	72		466		
2/10/2022									
2/11/2022									
8/30/2022	52	100	81	122				244	150
8/31/2022					62	116	510		
2/7/2023	55	96	78	163	89			207	
2/8/2023						141	540		101
2/9/2023									

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	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	616						
9/1/2016		578	553	1400			
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							
11/29/2016	594	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							
2/23/2017	581	614					
2/24/2017			414	1200			
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	410						
5/10/2017		955	251	1360			
5/26/2017					223		
6/27/2017							
6/28/2017					166		

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	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	322	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	381		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			233			87	
2/21/2018	285			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	242			1180		89	103
8/8/2018			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	69		226	1010			
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			298				
6/13/2019	301	1310		1410			
9/24/2019					146		
9/25/2019							
9/26/2019							
10/8/2019		1050					

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/2/2023 10:20 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-6R	GWC-4R	GWC-5R	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
10/9/2019	526			1680		119	98
10/10/2019			247				
3/17/2020	306	588					
3/18/2020			703	1520			
3/19/2020					148		
3/24/2020							84
3/25/2020						158	
9/22/2020	675		217				
9/23/2020		820		1000	161		
9/24/2020						170	77
9/25/2020							
3/1/2021	974		666				
3/2/2021				980			
3/3/2021		942			138		
3/4/2021						168	57
8/18/2021	1200	682	630	1660			
8/19/2021							
8/20/2021							
8/26/2021						249	
8/27/2021					150		
9/1/2021							
9/3/2021							88
2/8/2022	1310	549	648			248	93
2/9/2022				1440	156		
2/10/2022							
2/11/2022							
8/30/2022	1600	400	628	1570	153		
8/31/2022						242	92
2/7/2023	1400	259		1370	159	224	
2/8/2023			718				115
2/9/2023							

FIGURE G.

Appendix I, II, & III Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/2/2023, 1:05 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-39 (bg)	0.0181	75	63	Yes	17	5.882	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01412	-91	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.0007791	-66	-63	Yes	17	0	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-39 (bg)	0	-77	-74	Yes	19	68.42	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	2.992	85	68	Yes	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-2R	6.596	105	68	Yes	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.137	126	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.07974	-131	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.5761	98	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.08713	-95	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	0.7925	98	81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	1.642	69	63	Yes	17	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-1.172	-111	-63	Yes	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.44	-101	-81	Yes	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.06857	92	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.3022	89	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWC-2R	1.659	74	68	Yes	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.6176	144	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18I (bg)	0.09536	88	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.1082	121	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.04106	-83	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.38	82	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.4206	-96	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.6898	-139	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (S.U.)	GWA-2 (bg)	-0.04289	-209	-167	Yes	33	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-17S (bg)	-0.01585	-103	-98	Yes	23	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-18S (bg)	-0.05905	-157	-105	Yes	24	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-21I (bg)	0.1159	131	105	Yes	24	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-39 (bg)	-0.1921	-122	-81	Yes	20	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-47 (bg)	-0.05028	-87	-74	Yes	19	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-5D (bg)	-0.08917	-124	-98	Yes	23	0	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-17S (bg)	0	106	92	Yes	22	72.73	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	14.48	88	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	GWC-2R	31.06	91	68	Yes	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.1242	-93	-81	Yes	20	20	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.9678	140	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.618	-90	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.3151	105	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	0.9326	99	81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-8.078	-103	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-15.39	-121	-63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-2.638	-144	-81	Yes	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.1006	134	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-2R	60.73	99	68	Yes	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-21I (bg)	11.42	85	81	Yes	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-39 (bg)	29.24	74	63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-47 (bg)	-13.38	-101	-63	Yes	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-5D (bg)	-11.59	-90	-81	Yes	20	0	n/a	n/a	0.01	NP

Appendix I, II, & III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/2/2023, 1:05 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Arsenic (mg/L)	GWA-2 (bg)	0	-104	-214	No	39	89.74	n/a	n/a	0.01	NP
Arsenic (mg/L)	GWC-5R	-0.0001996	-134	-146	No	30	43.33	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-14S (bg)	0	-18	-98	No	23	95.65	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-17S (bg)	0	-23	-92	No	22	90.91	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-18I (bg)	0	-17	-98	No	23	86.96	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-18S (bg)	0	-17	-98	No	23	86.96	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-1D (bg)	0	24	98	No	23	30.43	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-1I (bg)	0	-23	-98	No	23	91.3	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-20S (bg)	0	-18	-98	No	23	95.65	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-21I (bg)	-0.0003031	-83	-98	No	23	34.78	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-2I (bg)	0	11	98	No	23	21.74	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-30I (bg)	0	-25	-98	No	23	91.3	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-39 (bg)	0	-20	-74	No	19	57.89	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-3D (bg)	0	-63	-98	No	23	73.91	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-3I (bg)	0	-31	-98	No	23	73.91	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-40 (bg)	0	-17	-74	No	19	89.47	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-47 (bg)	0	0	68	No	18	83.33	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-4I (bg)	0	-13	-98	No	23	91.3	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-5D (bg)	0	8	98	No	23	34.78	n/a	n/a	0.01	NP
Arsenic (mg/L)	YGWA-5I (bg)	0	-25	-98	No	23	91.3	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	29	68	No	18	66.67	n/a	n/a	0.01	NP
Boron (mg/L)	GWC-2R	0.01686	66	68	No	18	5.556	n/a	n/a	0.01	NP
Boron (mg/L)	GWC-4R	0.2886	39	68	No	18	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-14S (bg)	-0.0006705	-53	-81	No	20	10	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	0.0003162	37	81	No	20	10	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-18	-81	No	20	80	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.0004242	39	81	No	20	25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.001404	46	81	No	20	40	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-3	-81	No	20	75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-7	-81	No	20	90	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-48	-81	No	20	60	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	-2	-81	No	20	80	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-16	-81	No	20	85	n/a	n/a	0.01	NP
Boron (mg/L)	**YGWA-39 (bg)**	**0.0181**	**75**	**63**	**Yes**	**17**	**5.882**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-3D (bg)	0	8	81	No	20	60	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-15	-81	No	20	90	n/a	n/a	0.01	NP
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01412**	**-91**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-47 (bg)**	**-0.0007791**	**-66**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-4I (bg)	0	7	81	No	20	70	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0004226	48	81	No	20	15	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-18	-81	No	20	65	n/a	n/a	0.01	NP
Cadmium (mg/L)	GWA-2 (bg)	0	-38	-214	No	39	97.44	n/a	n/a	0.01	NP
Cadmium (mg/L)	GWC-5R	0.00001236	64	146	No	30	26.67	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-14S (bg)	0	10	87	No	21	95.24	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-17S (bg)	0	13	92	No	22	95.45	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-18I (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-18S (bg)	0	14	98	No	23	95.65	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-1D (bg)	0	12	87	No	21	95.24	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-1I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-20S (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-21I (bg)	0	-31	-98	No	23	86.96	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-2I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-30I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Cadmium (mg/L)	**YGWA-39 (bg)**	**0**	**-77**	**-74**	**Yes**	**19**	**68.42**	**n/a**	**n/a**	**0.01**	**NP**
Cadmium (mg/L)	YGWA-3D (bg)	0	12	87	No	21	95.24	n/a	n/a	0.01	NP

Appendix I, II, & III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/2/2023, 1:05 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cadmium (mg/L)	YGWA-3I (bg)	0	-7	-87	No	21	90.48	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-40 (bg)	0	0	74	No	19	100	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-47 (bg)	0	36	58	No	16	68.75	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-4I (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-5D (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Cadmium (mg/L)	YGWA-5I (bg)	0	14	98	No	23	95.65	n/a	n/a	0.01	NP
Calcium (mg/L)	**GWA-2 (bg)**	**2.992**	**85**	**68**	**Yes**	**18**	**5.556**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GWC-1R	18.25	55	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**GWC-2R**	**6.596**	**105**	**68**	**Yes**	**18**	**5.556**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	GWC-4R	4.133	55	68	No	18	5.556	n/a	n/a	0.01	NP
Calcium (mg/L)	GWC-5R	4.455	41	68	No	18	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-14S (bg)	0	4	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-17S (bg)**	**0.137**	**126**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-18I (bg)	0.06151	41	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-18S (bg)**	**-0.07974**	**-131**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1D (bg)**	**0.5761**	**98**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-1I (bg)**	**-0.08713**	**-95**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-20S (bg)	0.03077	57	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-21I (bg)**	**0.7925**	**98**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-2I (bg)	0.0884	17	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	0.01674	45	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-39 (bg)**	**1.642**	**69**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-3D (bg)	0.3791	60	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.5034	67	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-40 (bg)	-0.5174	-42	-63	No	17	5.882	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-47 (bg)**	**-1.172**	**-111**	**-63**	**Yes**	**17**	**5.882**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	YGWA-4I (bg)	0.09322	24	81	No	20	0	n/a	n/a	0.01	NP
Calcium (mg/L)	**YGWA-5D (bg)**	**-1.44**	**-101**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Calcium (mg/L)	**YGWA-5I (bg)**	**0.06857**	**92**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GWA-2 (bg)**	**0.3022**	**89**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GWC-2R**	**1.659**	**74**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	GWC-4R	8.98	29	68	No	18	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1256	62	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-17S (bg)**	**0.6176**	**144**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-18I (bg)**	**0.09536**	**88**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-18S (bg)	0.1291	65	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	0	-23	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	0	-27	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-20S (bg)**	**0.1082**	**121**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-21I (bg)	-0.08464	-55	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.01591	-28	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	0	-21	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.764	61	63	No	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.04106**	**-83**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-3I (bg)	-0.02711	-72	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-40 (bg)**	**0.38**	**82**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.4206**	**-96**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-4I (bg)	0.07352	53	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.6898**	**-139**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-5I (bg)	0.01678	22	81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	**GWA-2 (bg)**	**-0.04289**	**-209**	**-167**	**Yes**	**33**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	GWC-6R	-0.01502	-87	-152	No	31	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-14S (bg)	-0.009636	-37	-105	No	24	0	n/a	n/a	0.01	NP
pH (S.U.)	**YGWA-17S (bg)**	**-0.01585**	**-103**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	YGWA-18I (bg)	-0.02177	-70	-105	No	24	0	n/a	n/a	0.01	NP

Appendix I, II, & III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/2/2023, 1:05 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
pH (S.U.)	**YGWA-18S (bg)**	**-0.05905**	**-157**	**-105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	YGWA-1D (bg)	-0.03393	-54	-105	No	24	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-1I (bg)	-0.0241	-46	-105	No	24	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-20S (bg)	0.01318	36	105	No	24	0	n/a	n/a	0.01	NP
pH (S.U.)	**YGWA-21I (bg)**	**0.1159**	**131**	**105**	**Yes**	**24**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	YGWA-2I (bg)	-0.02814	-54	-105	No	24	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-30I (bg)	0.01352	31	98	No	23	0	n/a	n/a	0.01	NP
pH (S.U.)	**YGWA-39 (bg)**	**-0.1921**	**-122**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	YGWA-3D (bg)	0	-2	-105	No	24	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-3I (bg)	-0.01413	-30	-105	No	24	0	n/a	n/a	0.01	NP
pH (S.U.)	YGWA-40 (bg)	-0.01578	-11	-81	No	20	0	n/a	n/a	0.01	NP
pH (S.U.)	**YGWA-47 (bg)**	**-0.05028**	**-87**	**-74**	**Yes**	**19**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	YGWA-4I (bg)	-0.03585	-83	-105	No	24	0	n/a	n/a	0.01	NP
pH (S.U.)	**YGWA-5D (bg)**	**-0.08917**	**-124**	**-98**	**Yes**	**23**	**0**	**n/a**	**n/a**	**0.01**	**NP**
pH (S.U.)	YGWA-5I (bg)	-0.02116	-49	-105	No	24	0	n/a	n/a	0.01	NP
Selenium (mg/L)	GWA-2 (bg)	0	0	214	No	39	100	n/a	n/a	0.01	NP
Selenium (mg/L)	GWC-1R	0	62	146	No	30	43.33	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-14S (bg)	0	54	87	No	21	71.43	n/a	n/a	0.01	NP
Selenium (mg/L)	**YGWA-17S (bg)**	**0**	**106**	**92**	**Yes**	**22**	**72.73**	**n/a**	**n/a**	**0.01**	**NP**
Selenium (mg/L)	YGWA-18I (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-18S (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-1D (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-1I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-20S (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-21I (bg)	0	41	98	No	23	91.3	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-2I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-30I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-39 (bg)	0	4	74	No	19	94.74	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-3D (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-3I (bg)	0	0	87	No	21	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-40 (bg)	0	-25	-74	No	19	42.11	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-47 (bg)	0	21	48	No	14	85.71	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-4I (bg)	0	7	98	No	23	91.3	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-5D (bg)	0	0	98	No	23	100	n/a	n/a	0.01	NP
Selenium (mg/L)	YGWA-5I (bg)	0	20	98	No	23	95.65	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GWA-2 (bg)**	**14.48**	**88**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GWC-1R	76.2	47	68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**GWC-2R**	**31.06**	**91**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	GWC-5R	-6.777	-7	-68	No	18	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-14S (bg)	-0.02207	-14	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-17S (bg)	0.02875	23	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-18I (bg)**	**-0.1242**	**-93**	**-81**	**Yes**	**20**	**20**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-18S (bg)	-0.1096	-55	-81	No	20	10	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-1D (bg)**	**0.9678**	**140**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-1I (bg)	-0.04757	-9	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-20S (bg)	0	48	81	No	20	70	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-21I (bg)	-0.2092	-55	-81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	1.209	77	81	No	20	0	n/a	n/a	0.01	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.03067	-23	-81	No	20	10	n/a	n/a	0.01	NP
Sulfate (mg/L)	**YGWA-39 (bg)**	**-2.618**	**-90**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3D (bg)**	**0.3151**	**105**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-3I (bg)**	**0.9326**	**99**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-40 (bg)**	**-8.078**	**-103**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-47 (bg)**	**-15.39**	**-121**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	YGWA-4I (bg)	0.07548	35	81	No	20	0	n/a	n/a	0.01	NP

Appendix I, II, & III Trend Tests - All Results

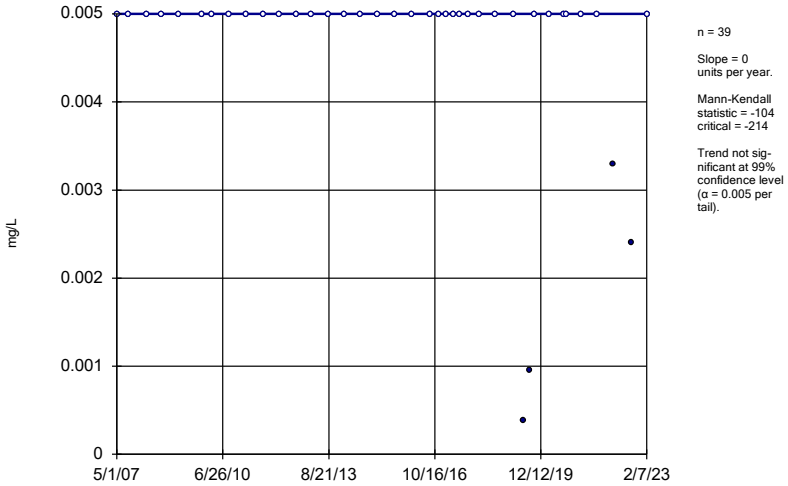
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/2/2023, 1:05 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Sulfate (mg/L)	**YGWA-5D (bg)**	**-2.638**	**-144**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
Sulfate (mg/L)	**YGWA-5I (bg)**	**0.1006**	**134**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GWA-2 (bg)	17.72	66	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-1R	137.4	49	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	**GWC-2R**	**60.73**	**99**	**68**	**Yes**	**18**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	GWC-4R	42.31	48	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-5R	10.6	9	68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	GWC-6R	-68.4	-37	-68	No	18	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-14S (bg)	0.3652	16	81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-17S (bg)	2.621	47	81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-18I (bg)	-1.319	-26	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-18S (bg)	0.3933	9	81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-1D (bg)	2.029	32	81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-1I (bg)	-1.086	-18	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-20S (bg)	3.156	51	81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	**YGWA-21I (bg)**	**11.42**	**85**	**81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-2I (bg)	-0.8152	-19	-81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-30I (bg)	1.488	24	81	No	20	10	n/a	n/a	0.01	NP
TDS (mg/L)	**YGWA-39 (bg)**	**29.24**	**74**	**63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-3D (bg)	0.3218	7	81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-3I (bg)	0.862	9	81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	YGWA-40 (bg)	-7.039	-48	-63	No	17	0	n/a	n/a	0.01	NP
TDS (mg/L)	**YGWA-47 (bg)**	**-13.38**	**-101**	**-63**	**Yes**	**17**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-4I (bg)	0.9669	14	81	No	20	0	n/a	n/a	0.01	NP
TDS (mg/L)	**YGWA-5D (bg)**	**-11.59**	**-90**	**-81**	**Yes**	**20**	**0**	**n/a**	**n/a**	**0.01**	**NP**
TDS (mg/L)	YGWA-5I (bg)	-0.8043	-16	-81	No	20	0	n/a	n/a	0.01	NP

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 39

Slope = 0 units per year.

Mann-Kendall statistic = -104
critical = -214

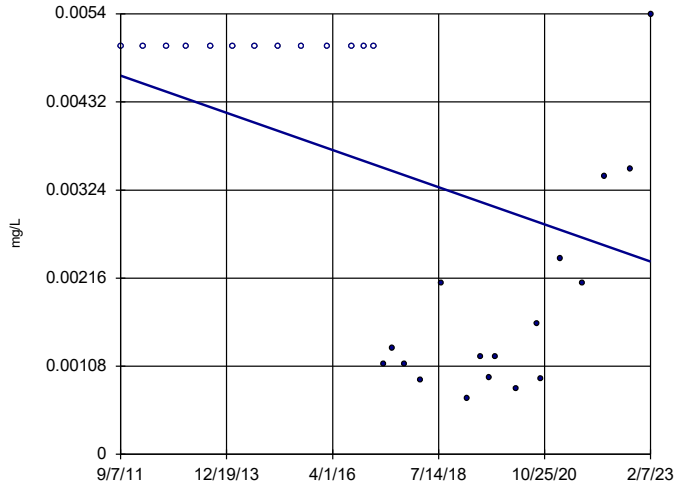
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWC-5R



n = 30

Slope = -0.0001996 units per year.

Mann-Kendall statistic = -134
critical = -146

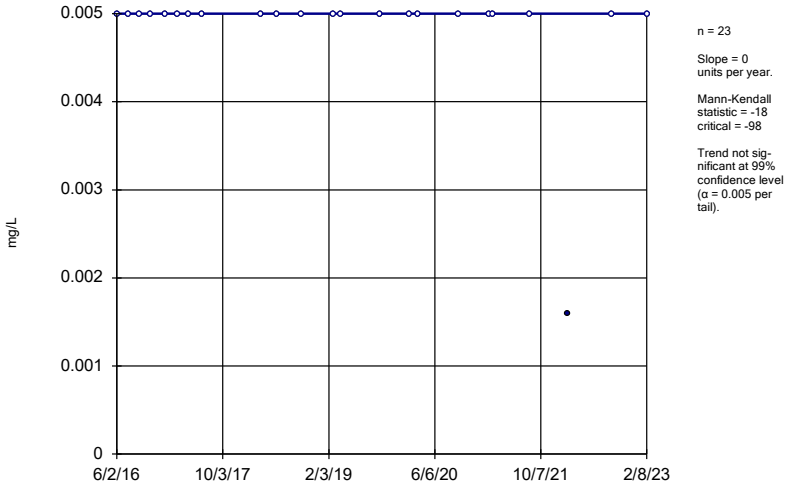
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -18
critical = -98

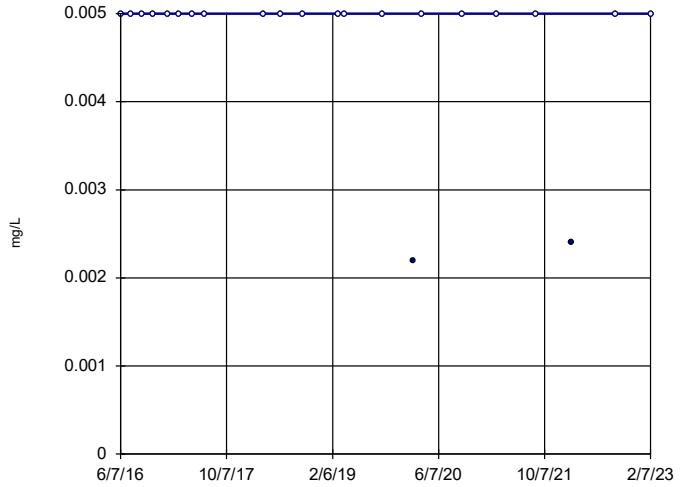
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -23
critical = -92

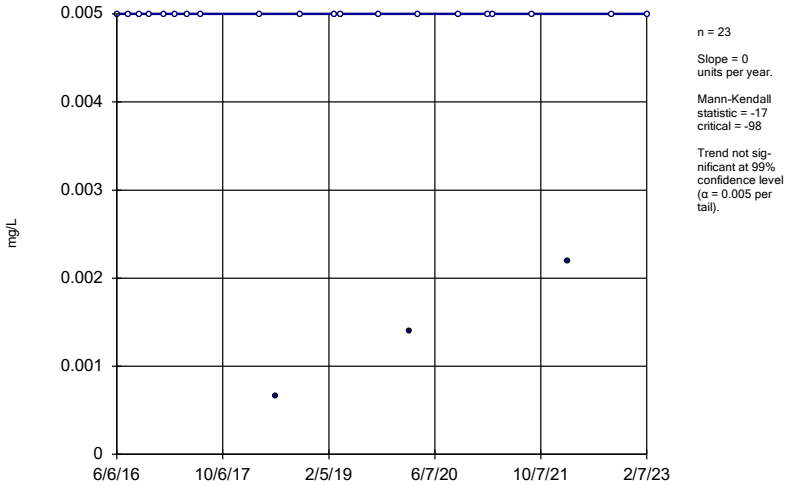
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -17
critical = -98

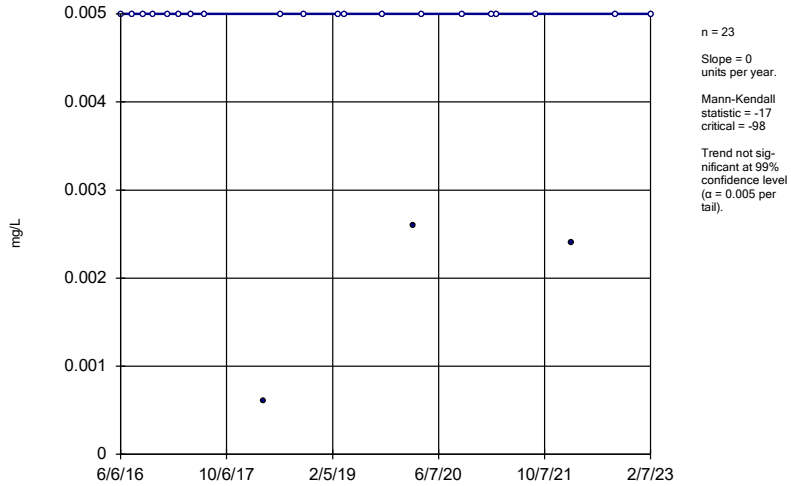
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -17
critical = -98

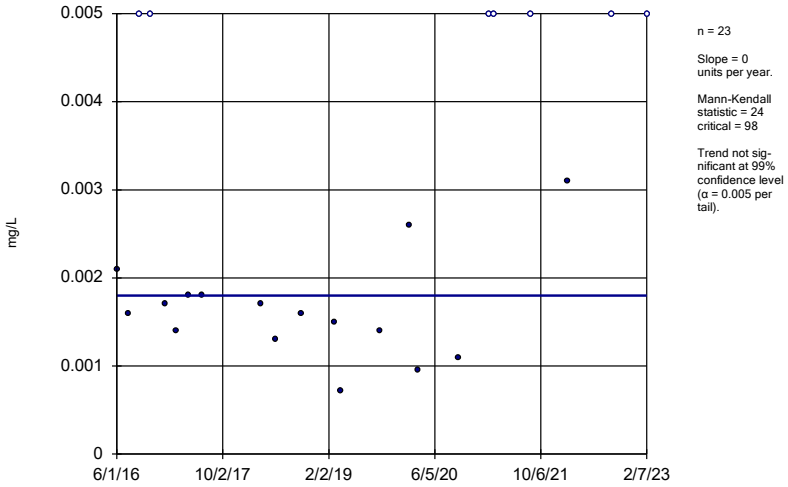
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 24
critical = 98

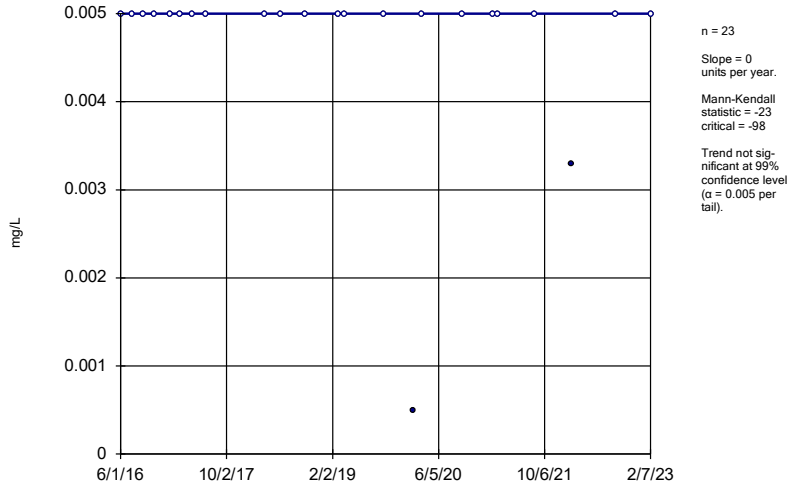
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -23
critical = -98

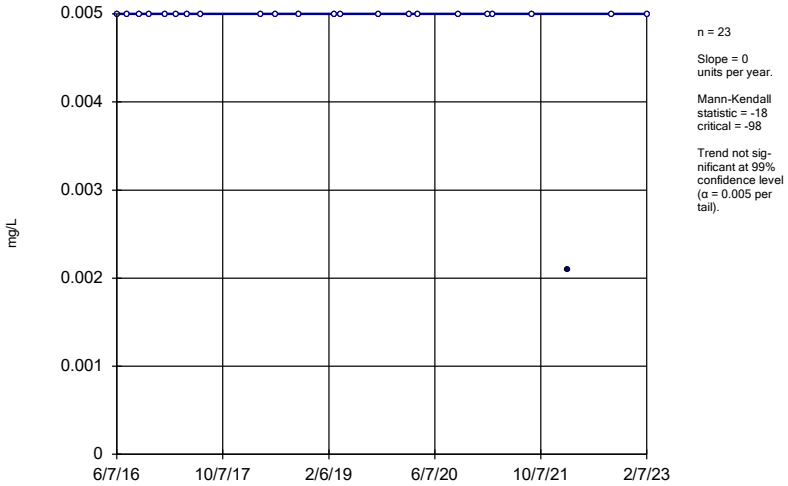
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -18
critical = -98

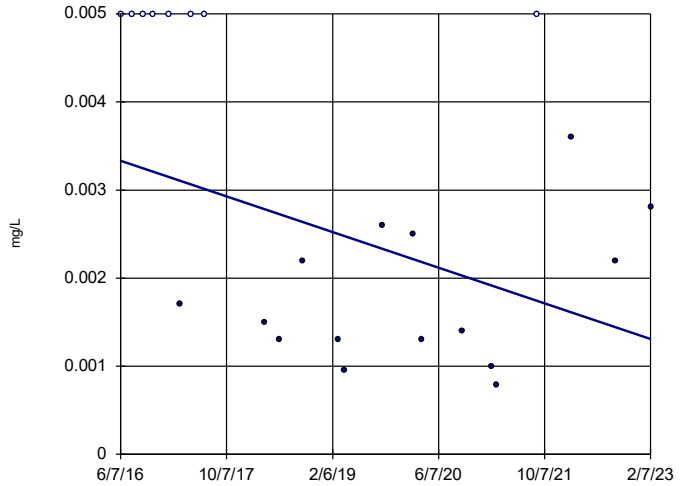
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 23

Slope = -0.0003031 units per year.

Mann-Kendall statistic = -83
critical = -98

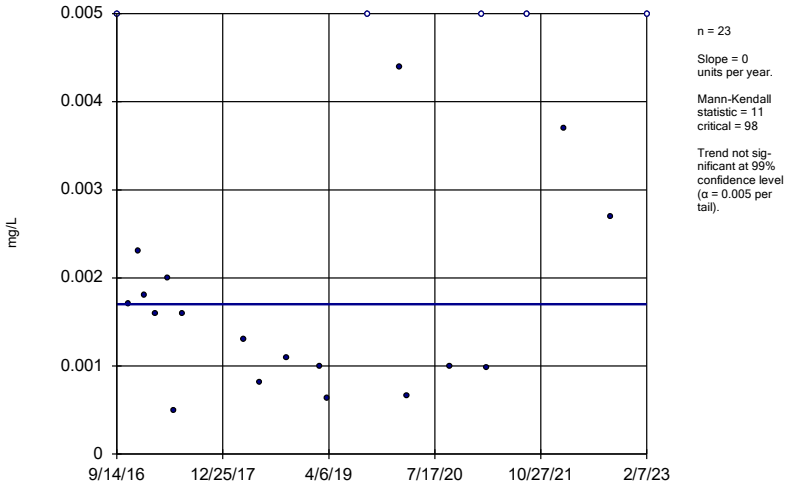
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 11
critical = 98

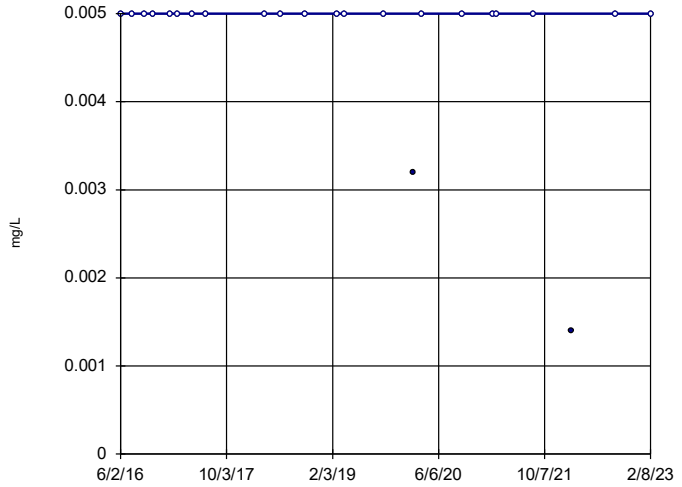
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -25
critical = -98

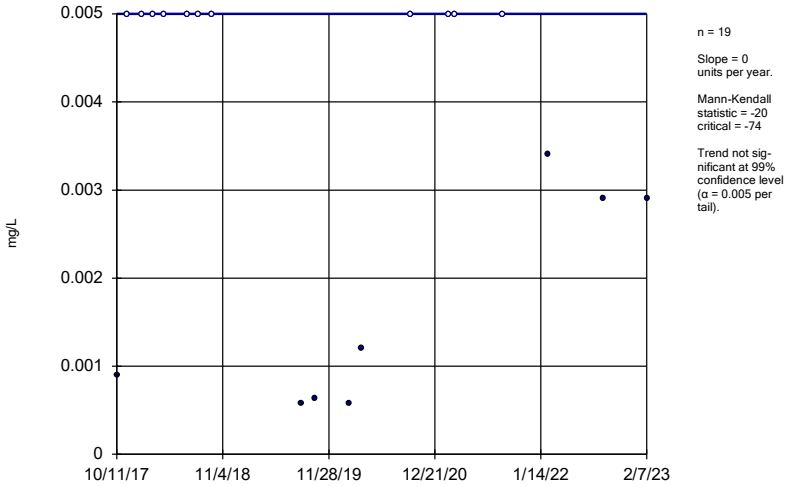
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -20
critical = -74

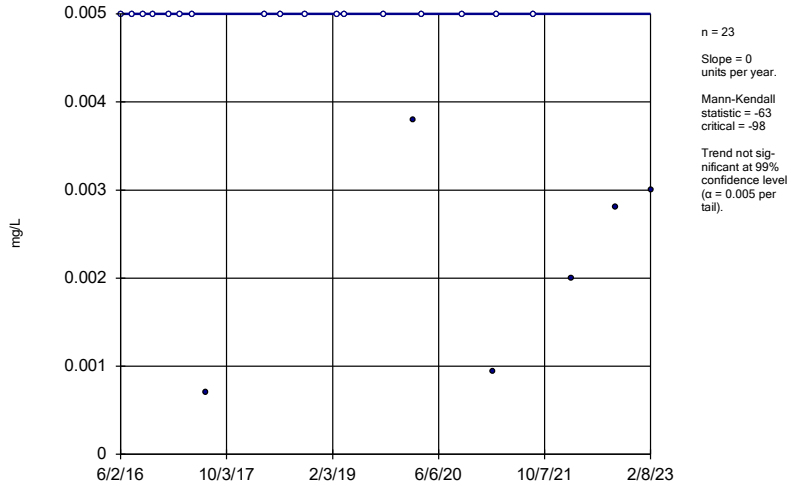
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -63
critical = -98

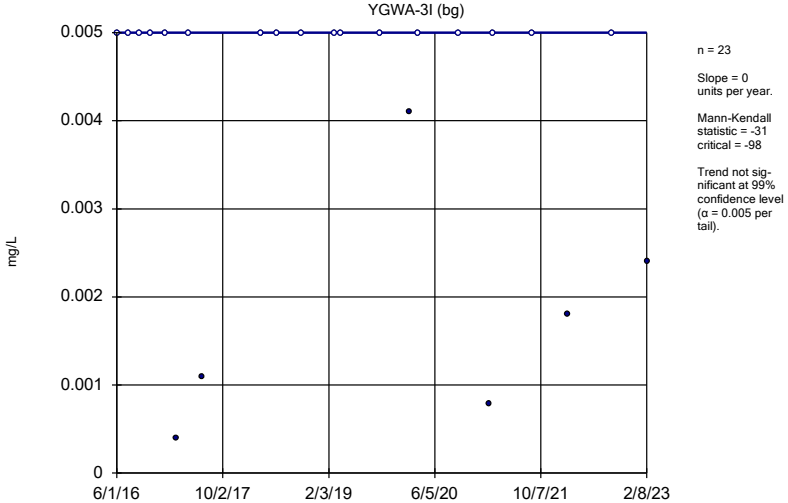
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -31
critical = -98

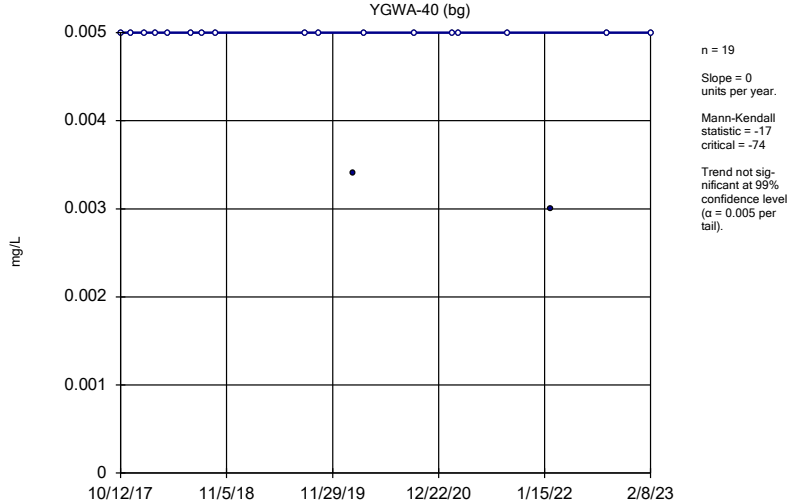
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -17
critical = -74

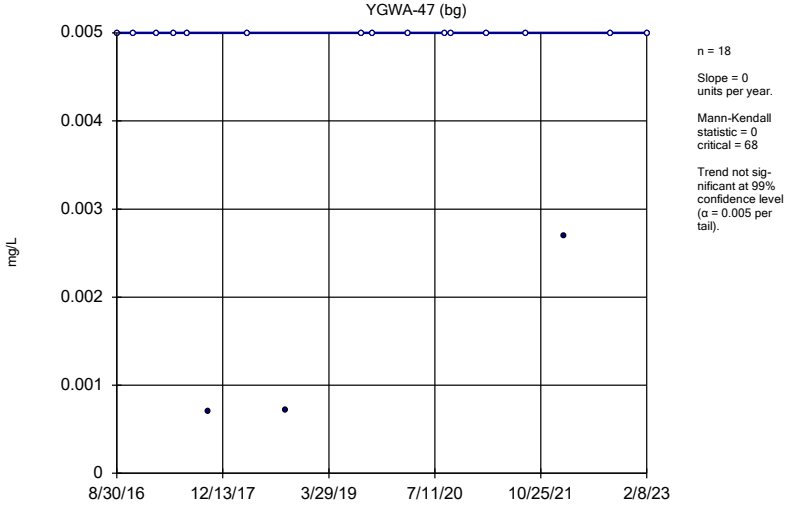
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Arsenic Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

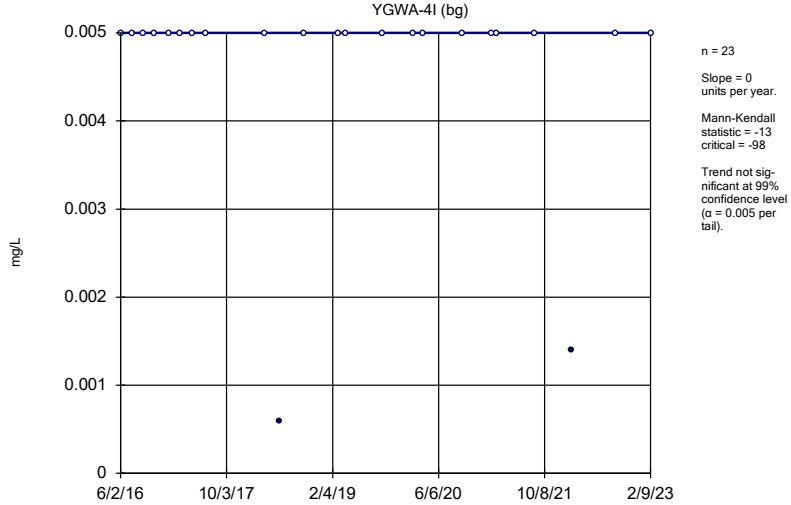
Constituent: Arsenic Analysis Run 5/2/2023 1:01 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -13 critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

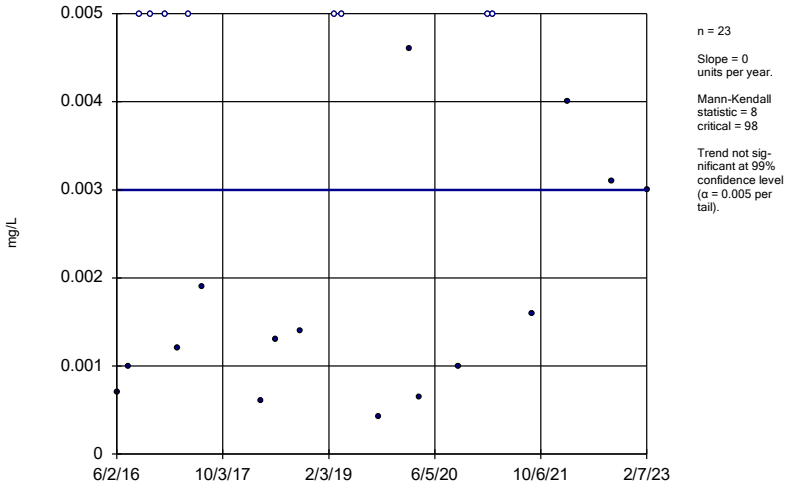
Constituent: Arsenic Analysis Run 5/2/2023 1:01 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 8 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

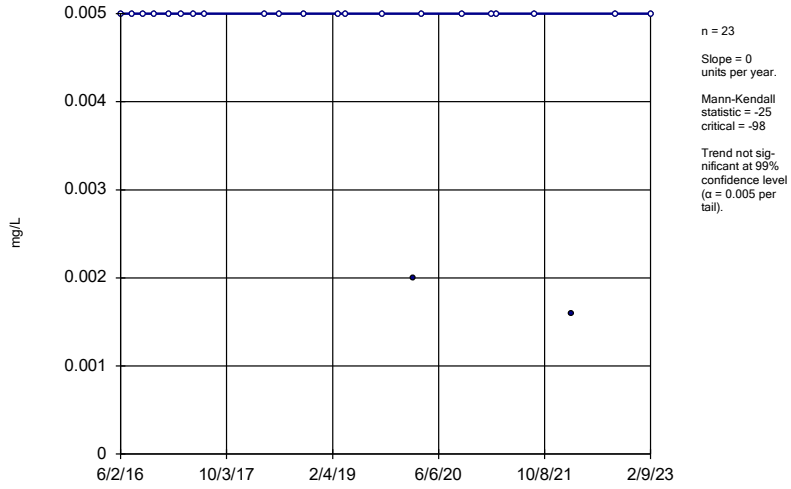
Constituent: Arsenic Analysis Run 5/2/2023 1:01 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -25 critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

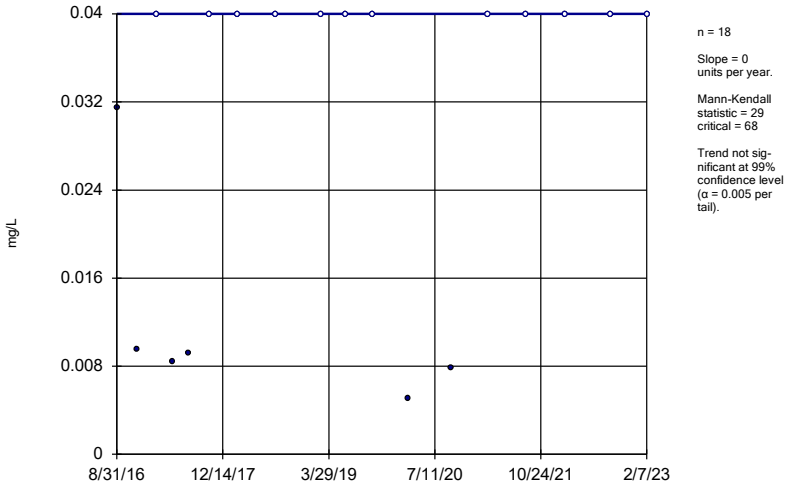
Constituent: Arsenic Analysis Run 5/2/2023 1:01 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 18

Slope = 0 units per year.

Mann-Kendall statistic = 29 critical = 68

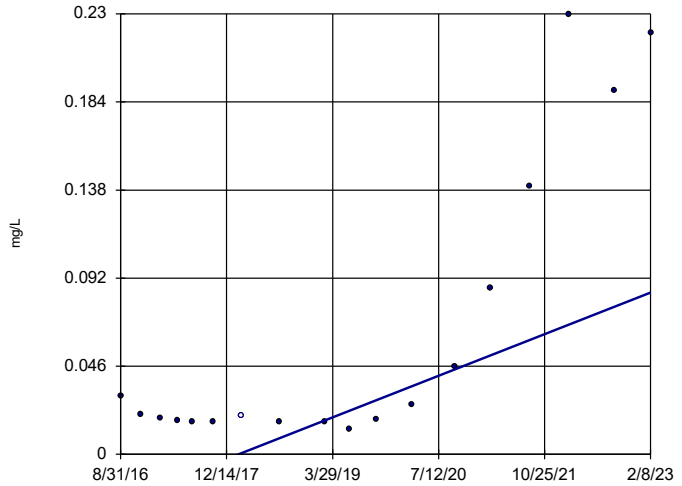
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWC-2R



n = 18

Slope = 0.01686 units per year.

Mann-Kendall statistic = 66 critical = 68

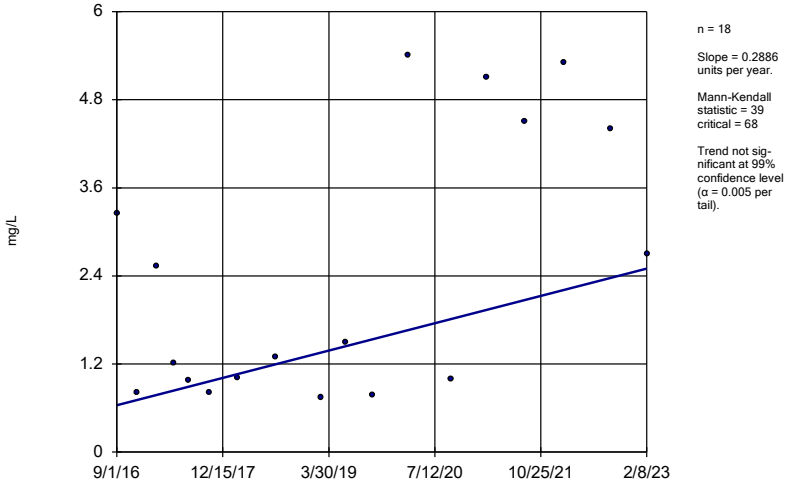
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-4R



n = 18

Slope = 0.2886 units per year.

Mann-Kendall statistic = 39 critical = 68

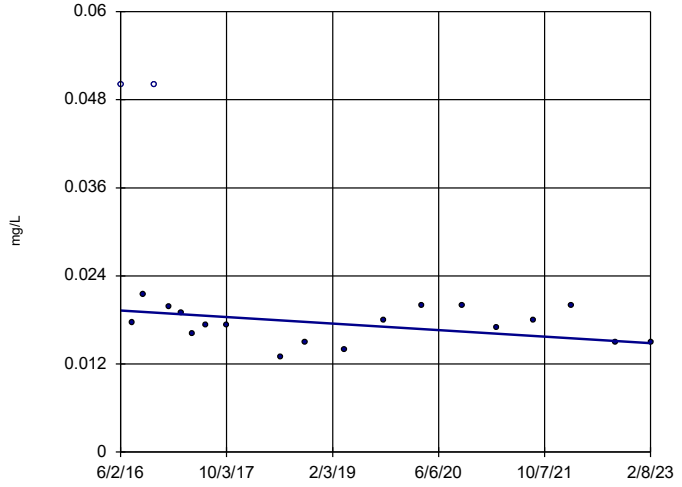
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 20

Slope = -0.0006705 units per year.

Mann-Kendall statistic = -53 critical = -81

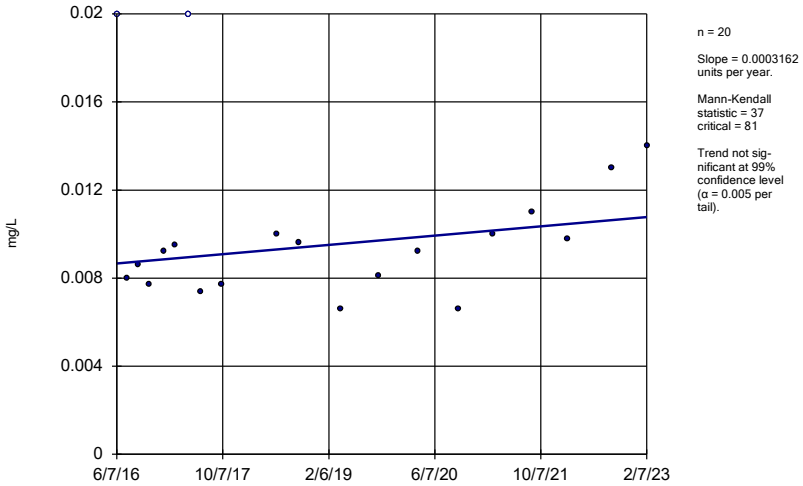
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 20

Slope = 0.0003162 units per year.

Mann-Kendall statistic = 37
critical = 81

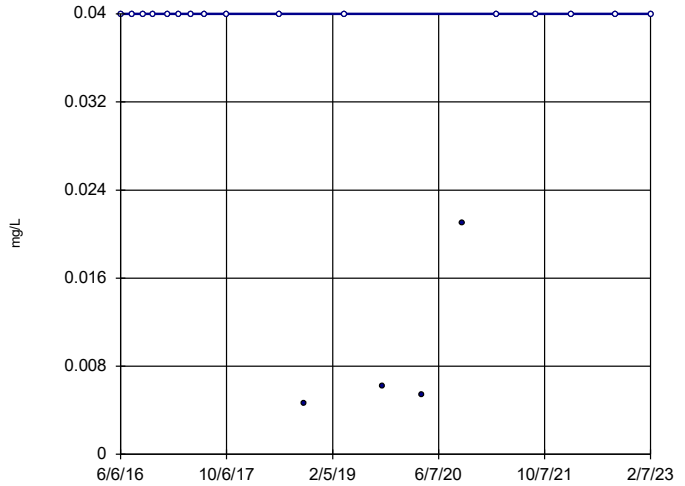
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -18
critical = -81

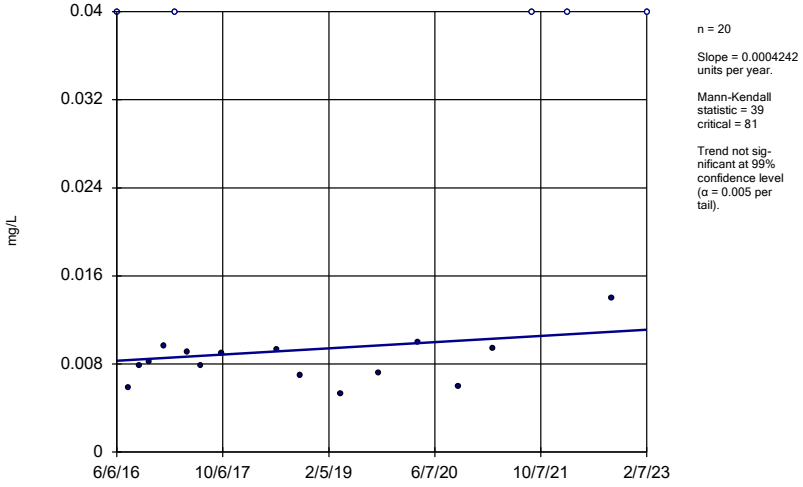
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 20

Slope = 0.0004242 units per year.

Mann-Kendall statistic = 39
critical = 81

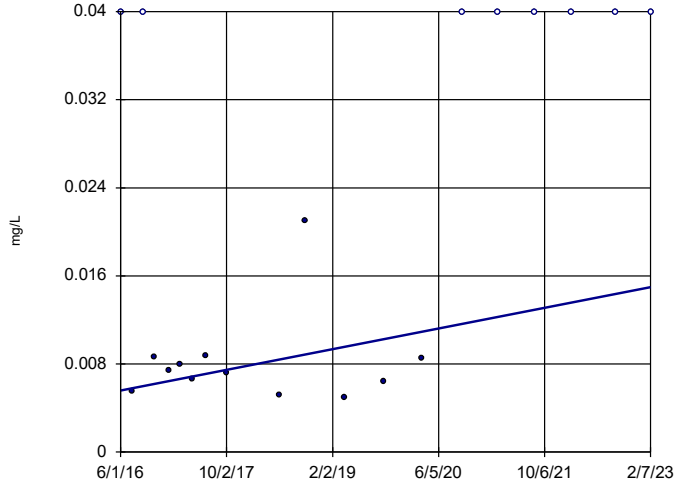
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 20

Slope = 0.001404 units per year.

Mann-Kendall statistic = 46
critical = 81

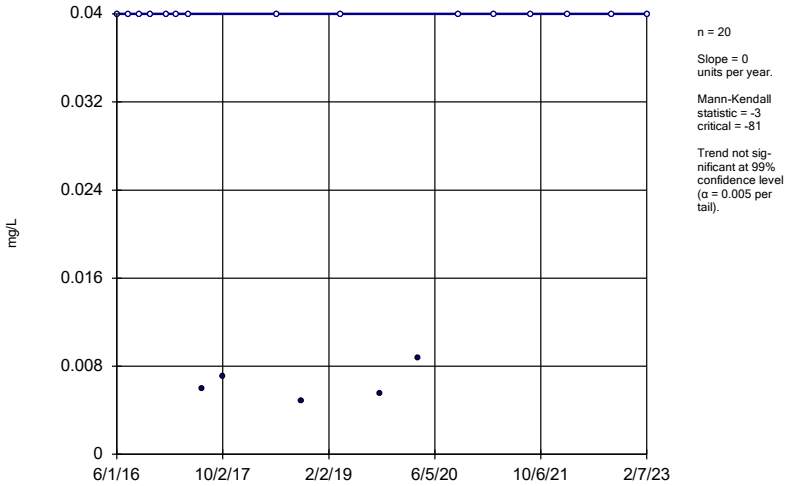
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -3
critical = -81

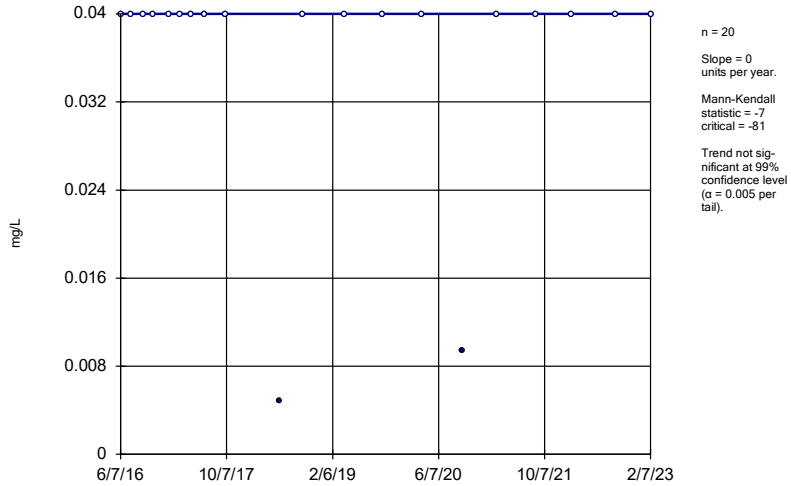
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -7
critical = -81

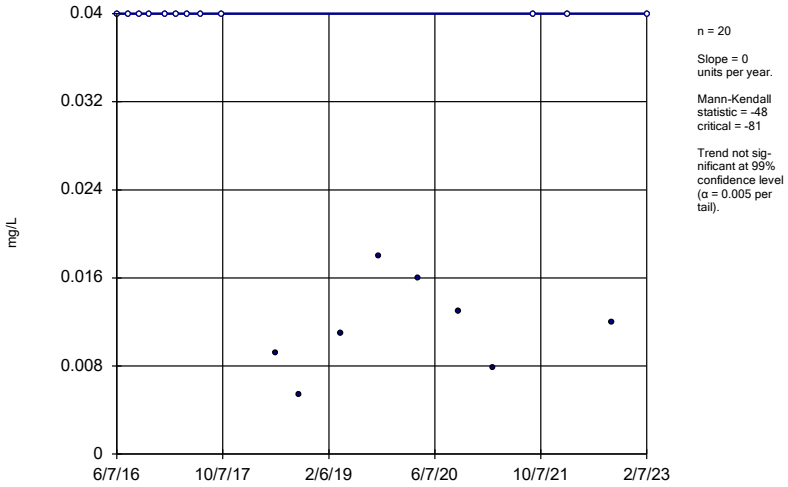
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -48
critical = -81

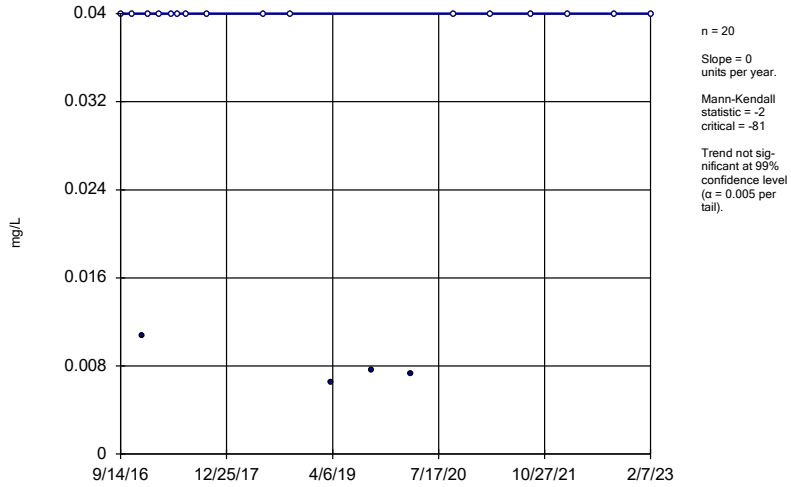
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -2
critical = -81

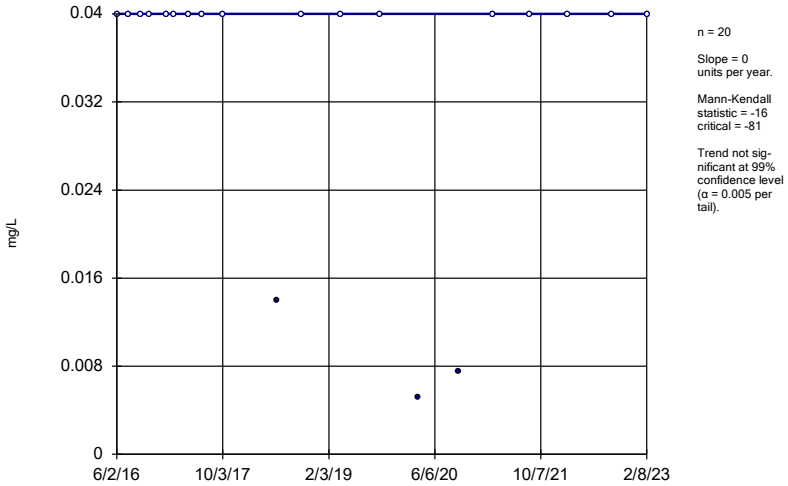
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -16
critical = -81

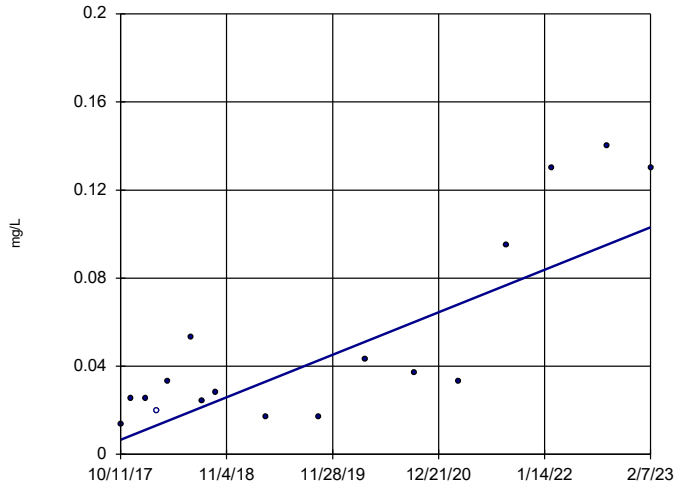
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 17

Slope = 0.0181 units per year.

Mann-Kendall statistic = 75
critical = 63

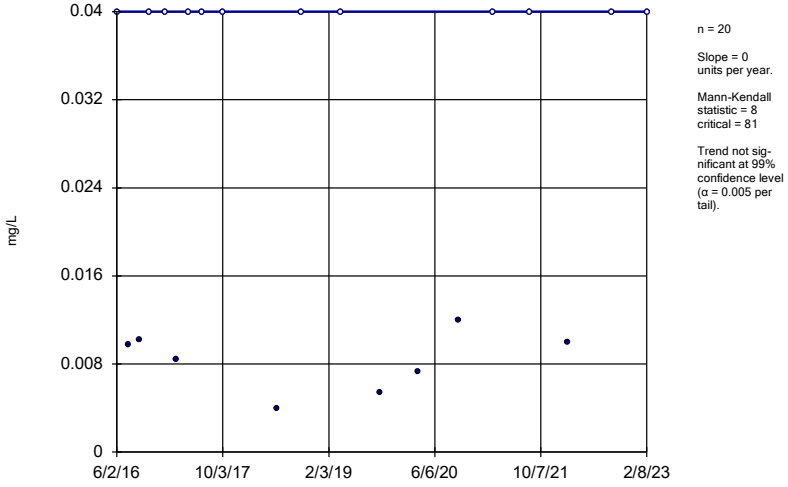
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 8
critical = 81

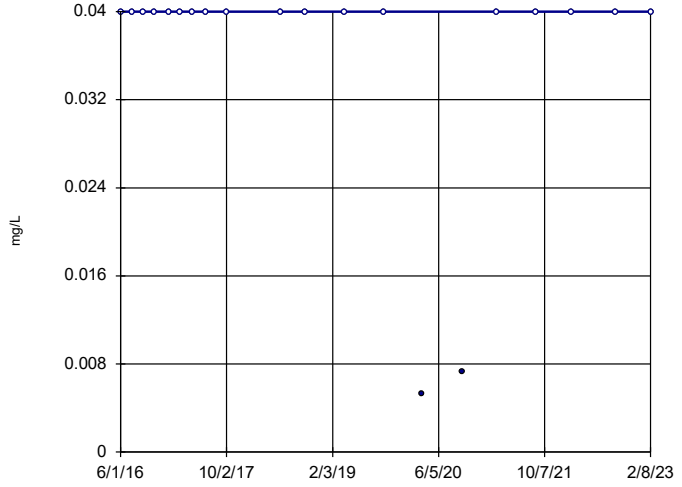
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 20

Slope = 0 units per year.

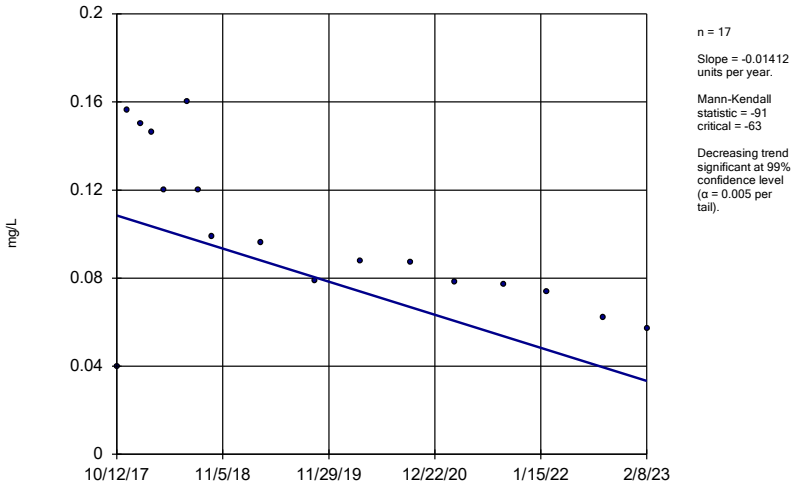
Mann-Kendall statistic = -15
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2023 1:01 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-40 (bg)



n = 17

Slope = -0.01412 units per year.

Mann-Kendall statistic = -91
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

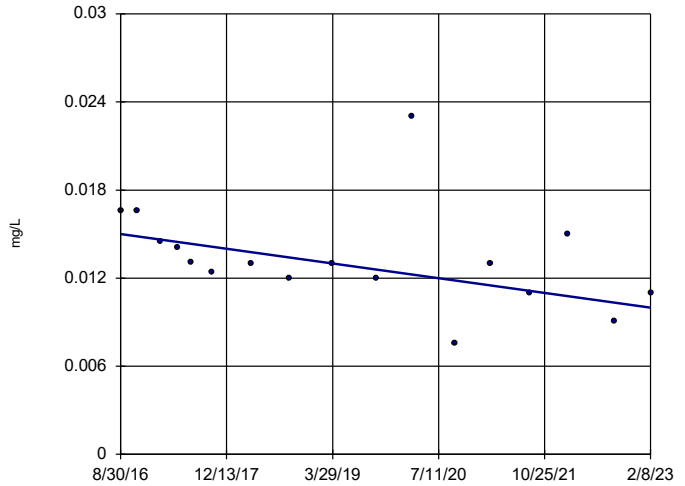
Constituent: Boron Analysis Run 5/2/2023 1:01 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 17

Slope = -0.0007791 units per year.

Mann-Kendall statistic = -66
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

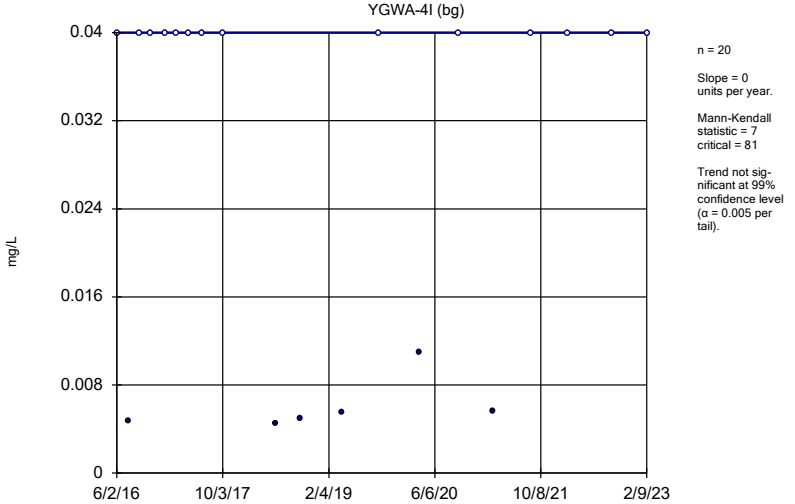
Constituent: Boron Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 7
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

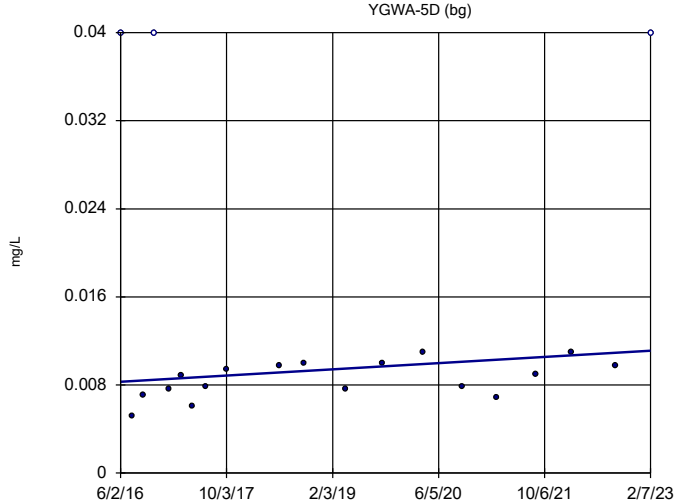
Constituent: Boron Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 20

Slope = 0.0004226 units per year.

Mann-Kendall statistic = 48
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

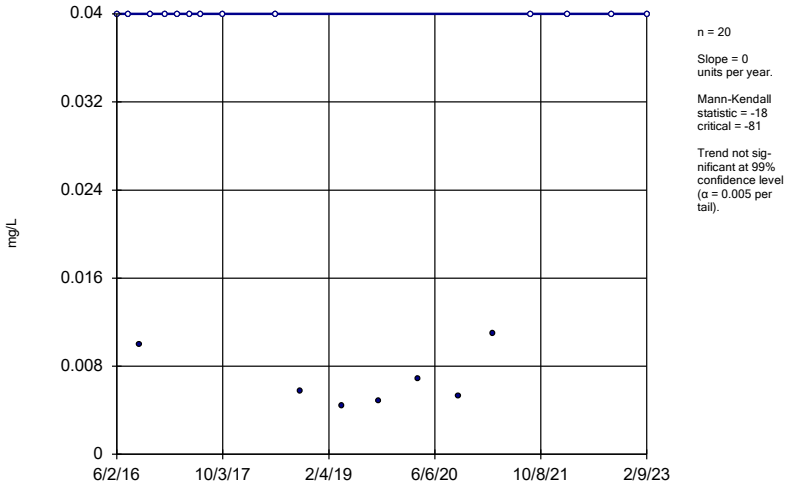
Constituent: Boron Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -18
critical = -81

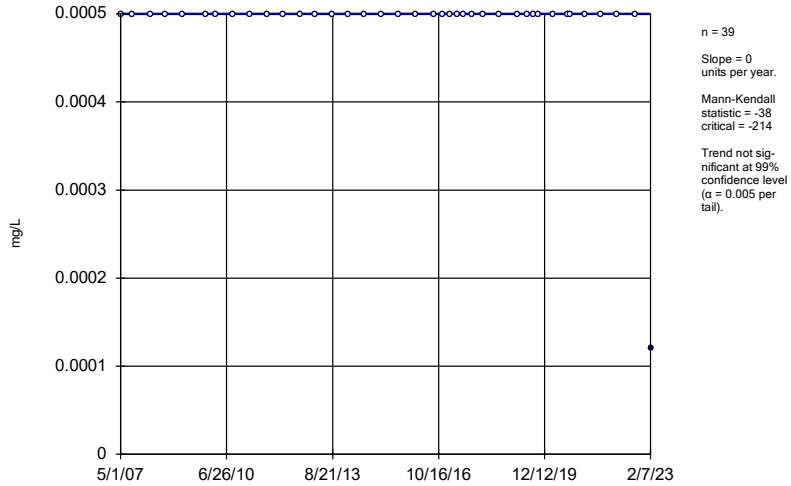
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 39

Slope = 0 units per year.

Mann-Kendall statistic = -38
critical = -214

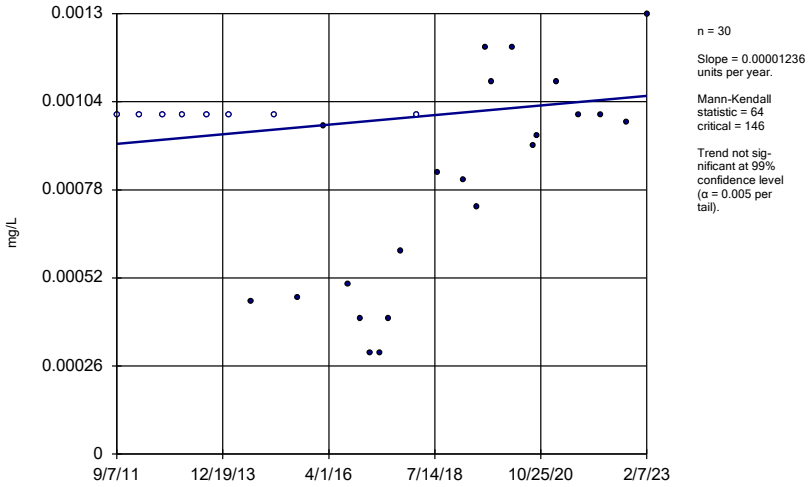
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWC-5R



n = 30

Slope = 0.00001236 units per year.

Mann-Kendall statistic = 64
critical = 146

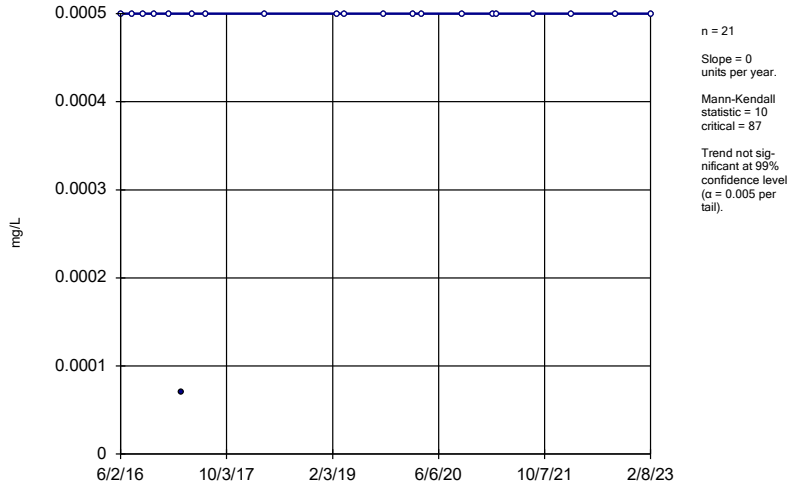
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 10
critical = 87

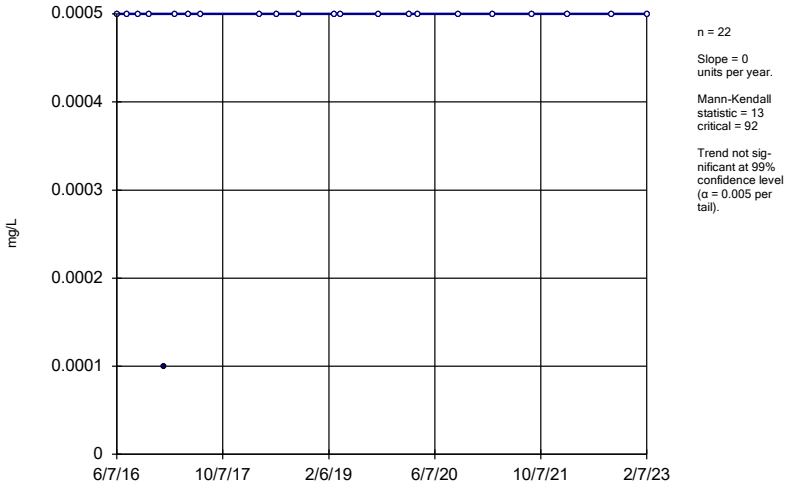
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 13
critical = 92

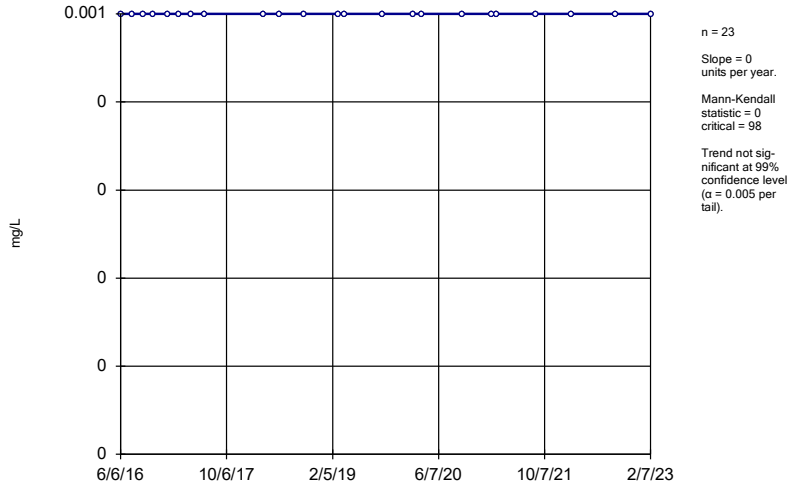
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 98

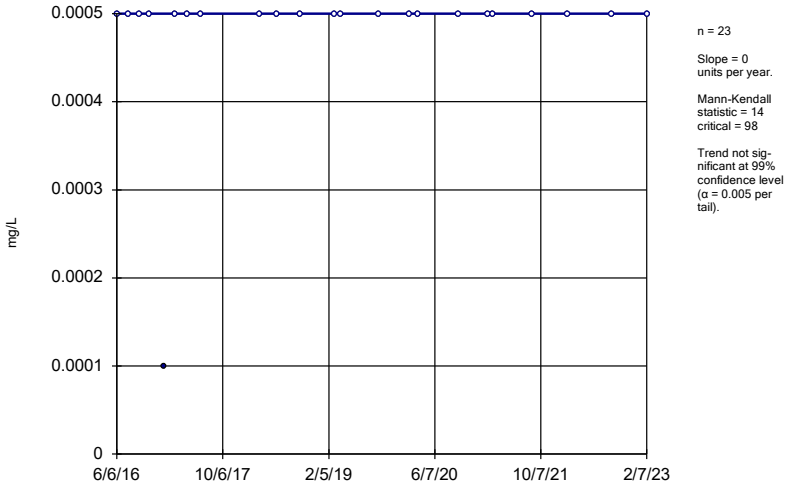
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 14
critical = 98

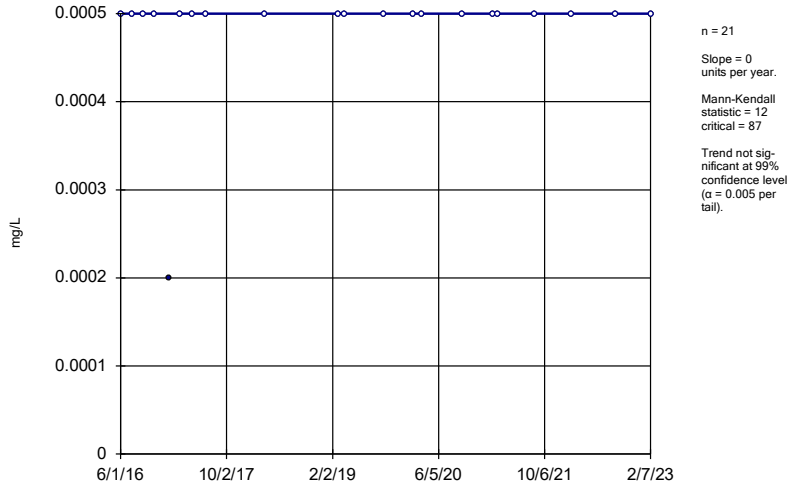
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 12
critical = 87

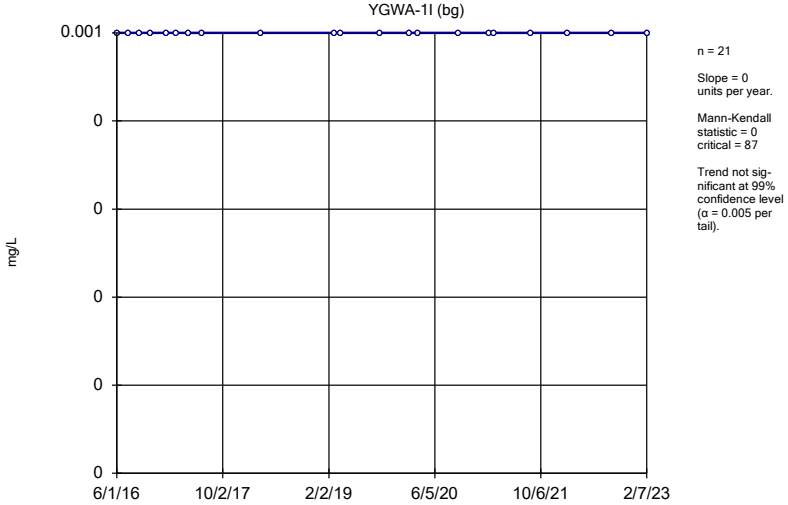
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

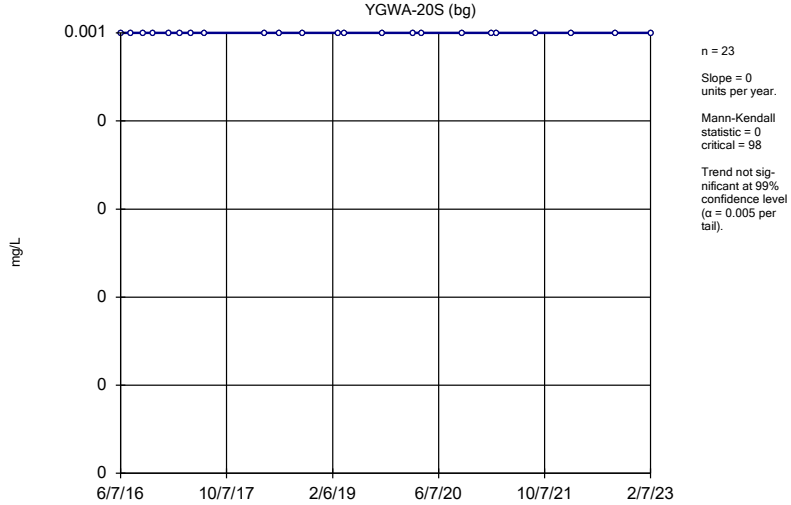
Constituent: Cadmium Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

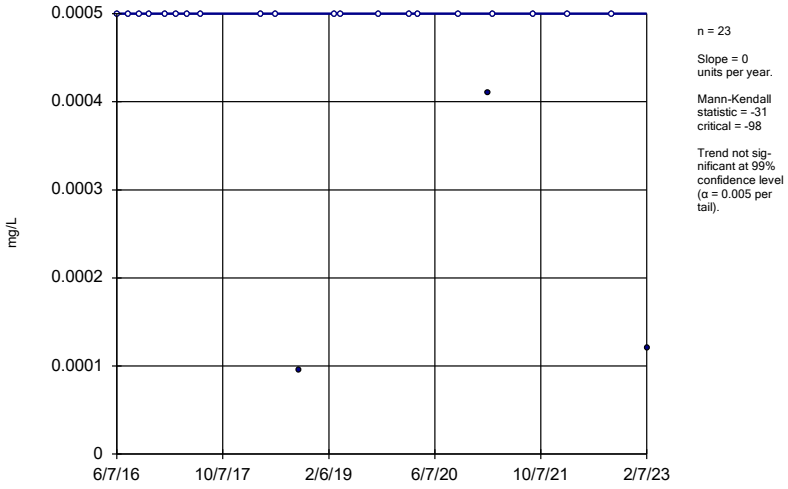
Constituent: Cadmium Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -31 critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

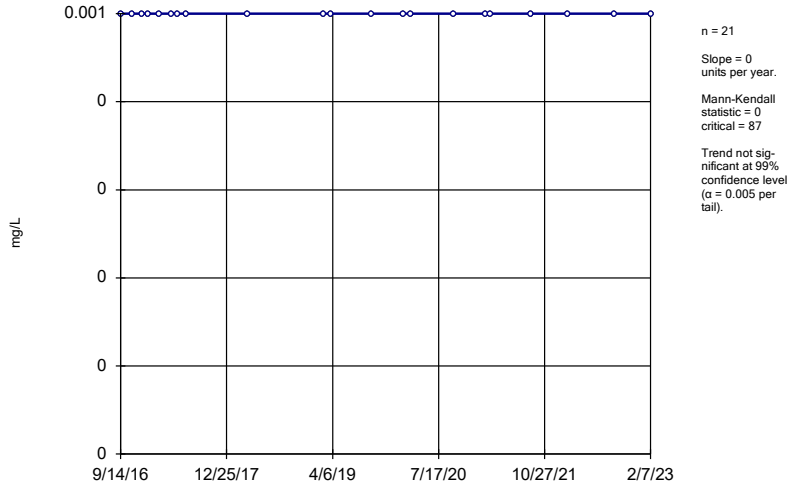
Constituent: Cadmium Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

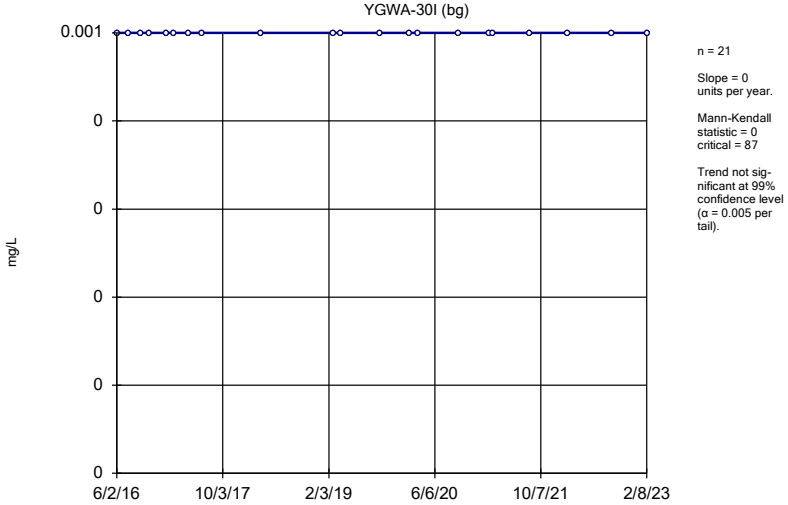
Constituent: Cadmium Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 87

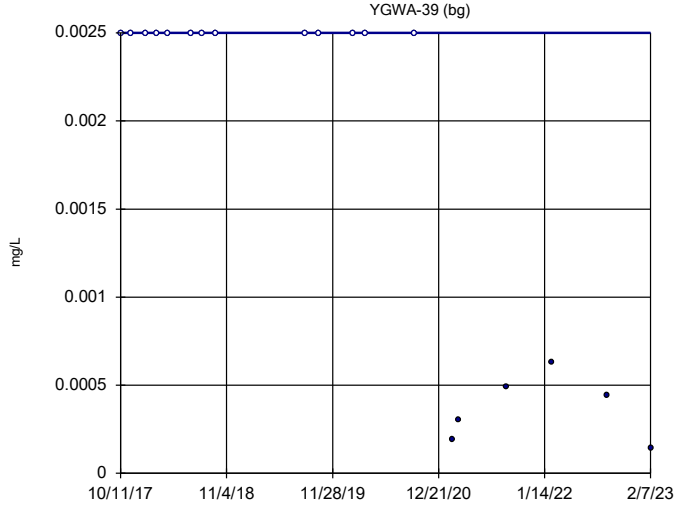
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -77 critical = -74

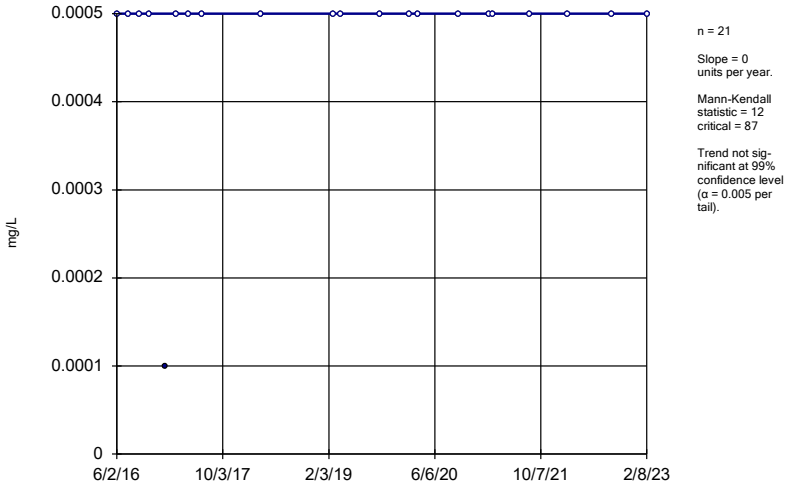
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 12 critical = 87

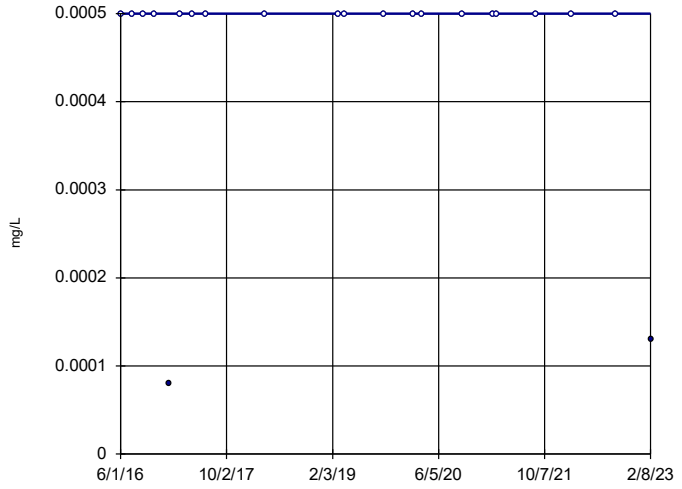
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = -7 critical = -87

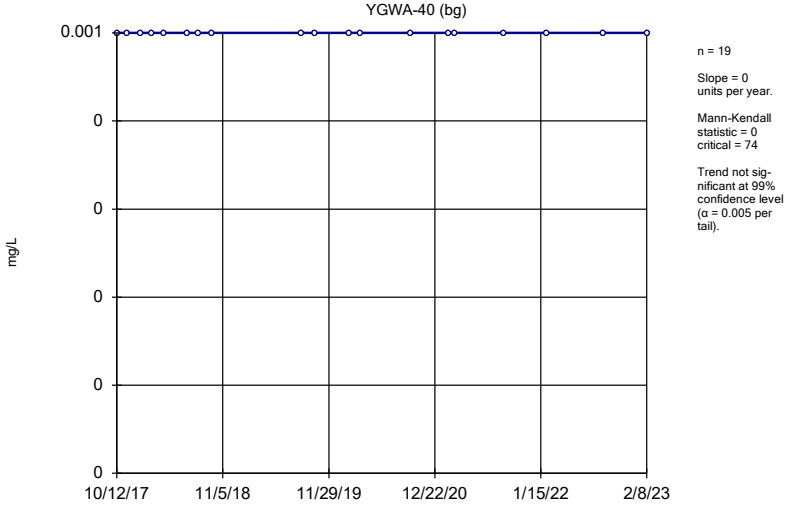
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 74

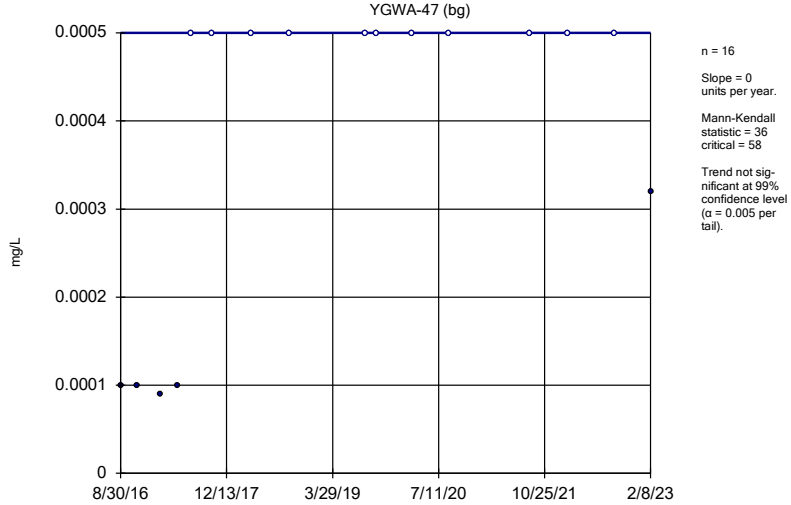
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 16

Slope = 0 units per year.

Mann-Kendall statistic = 36
critical = 58

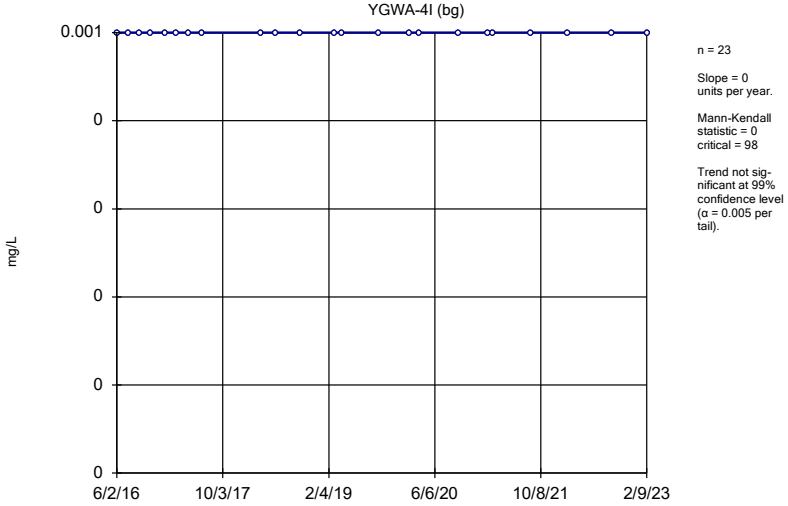
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 98

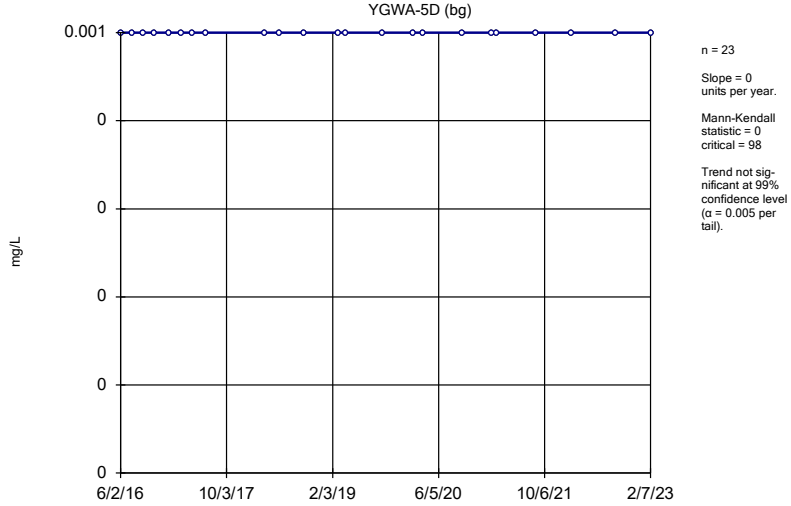
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 98

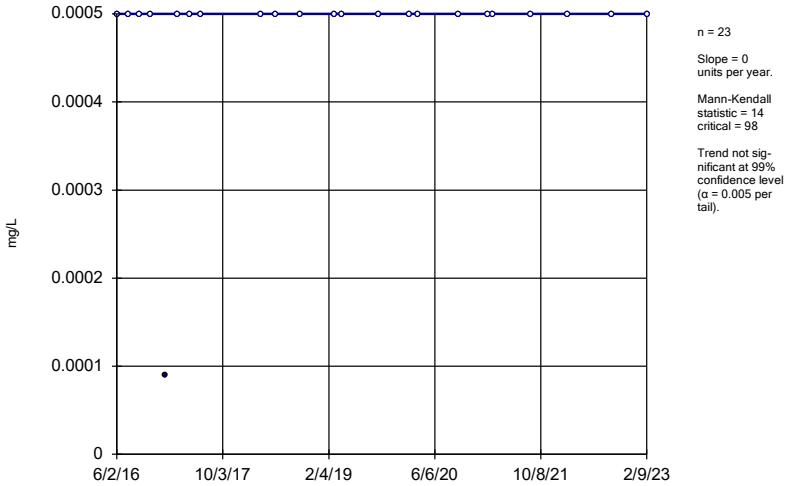
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 14 critical = 98

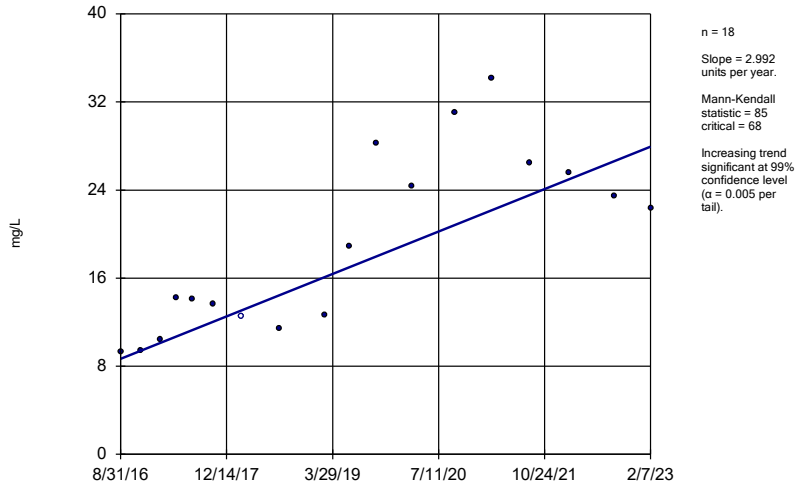
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Cadmium Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 18

Slope = 2.992 units per year.

Mann-Kendall statistic = 85 critical = 68

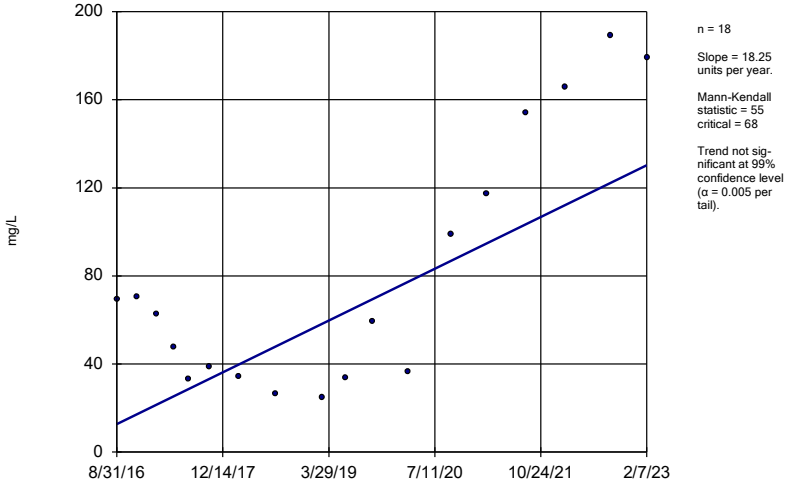
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-1R



n = 18

Slope = 18.25 units per year.

Mann-Kendall statistic = 55 critical = 68

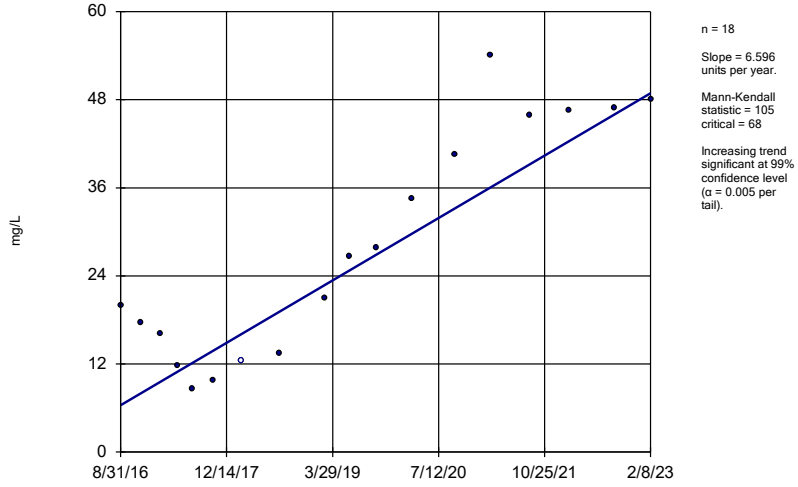
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWC-2R



n = 18

Slope = 6.596 units per year.

Mann-Kendall statistic = 105 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

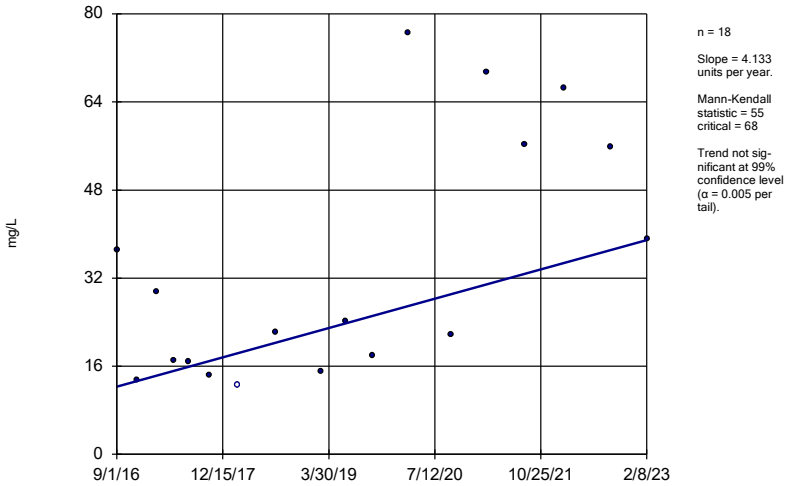
Constituent: Calcium Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

GWC-4R



n = 18

Slope = 4.133 units per year.

Mann-Kendall statistic = 55 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

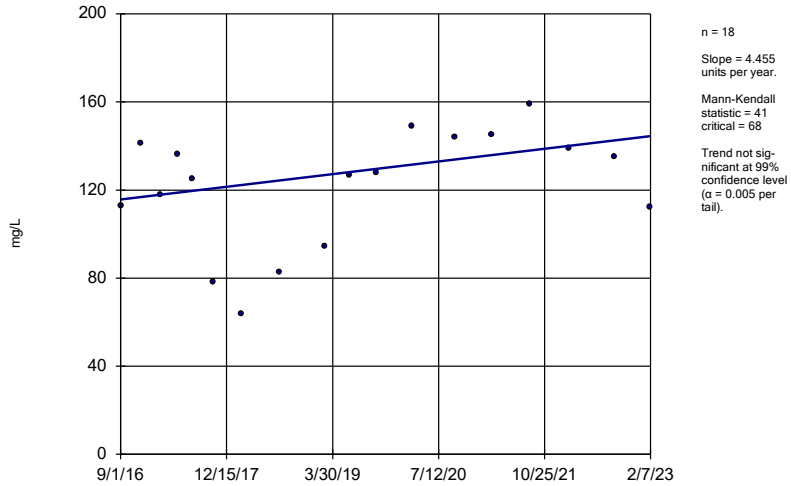
Constituent: Calcium Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-5R



n = 18

Slope = 4.455 units per year.

Mann-Kendall statistic = 41 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

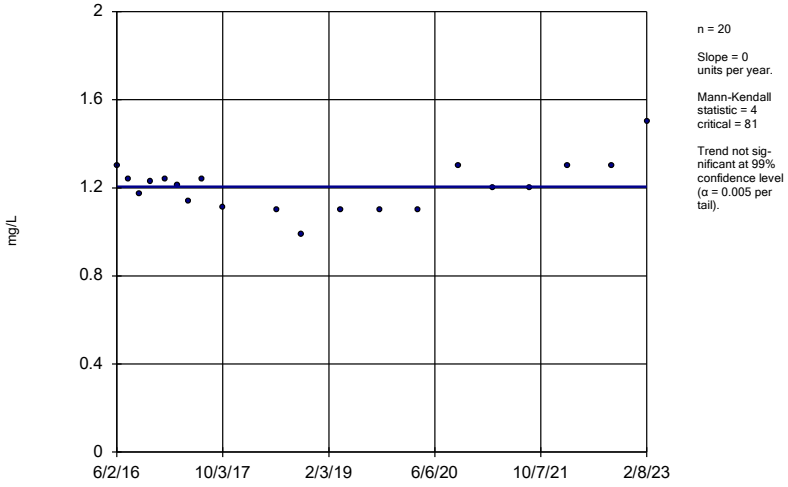
Constituent: Calcium Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 4 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

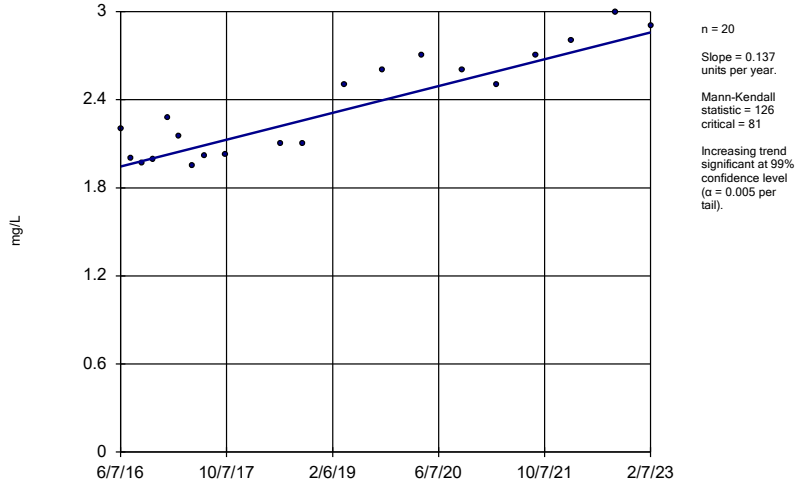
Constituent: Calcium Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 20

Slope = 0.137 units per year.

Mann-Kendall statistic = 126 critical = 81

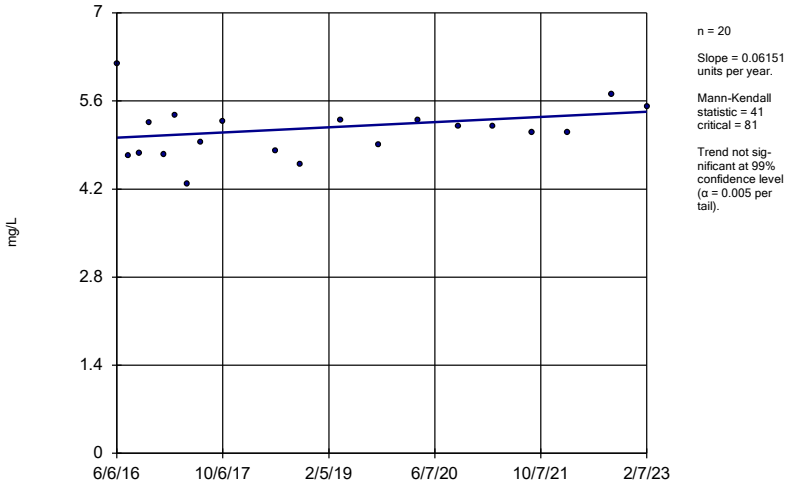
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-18I (bg)



n = 20

Slope = 0.06151 units per year.

Mann-Kendall statistic = 41
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

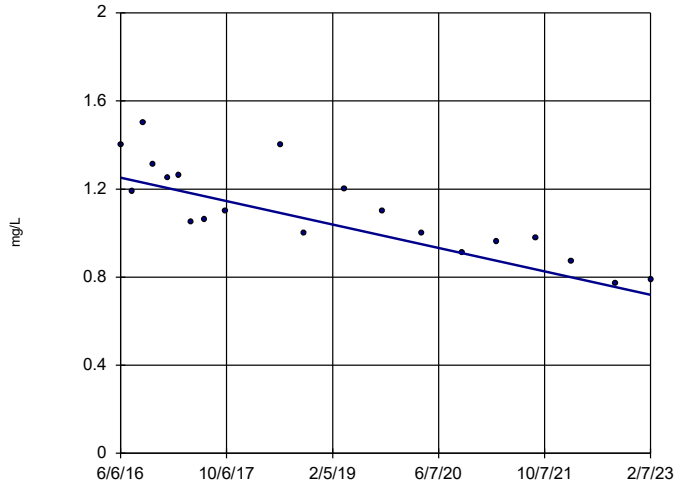
Constituent: Calcium Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 20

Slope = -0.07974 units per year.

Mann-Kendall statistic = -131
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

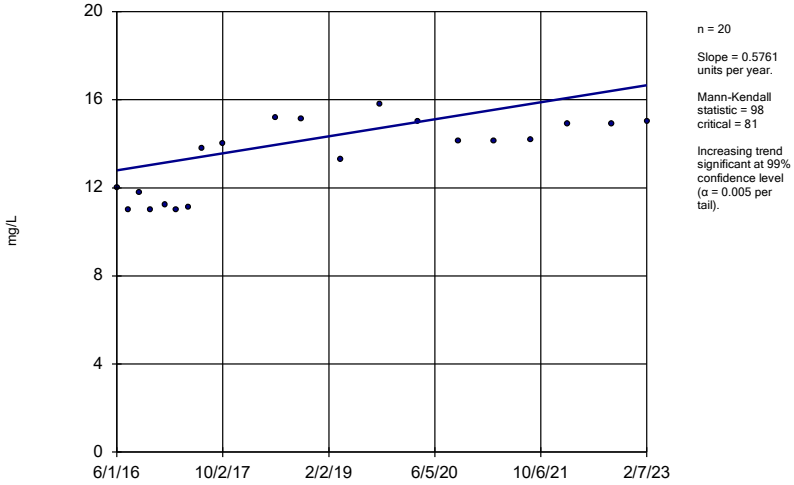
Constituent: Calcium Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 20

Slope = 0.5761 units per year.

Mann-Kendall statistic = 98
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

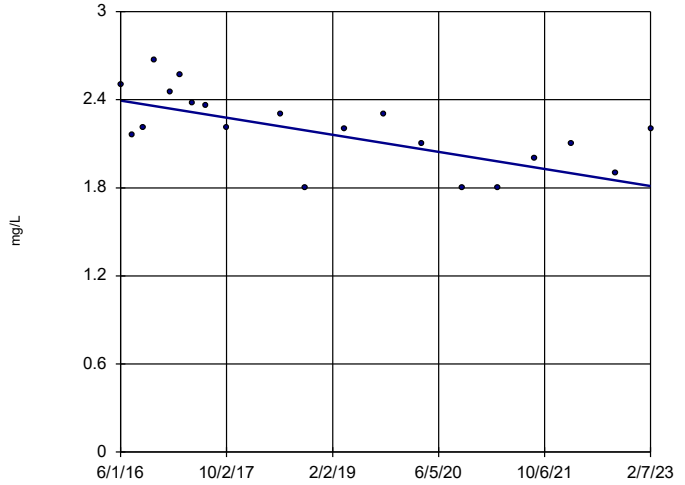
Constituent: Calcium Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1I (bg)



n = 20

Slope = -0.08713 units per year.

Mann-Kendall statistic = -95
critical = -81

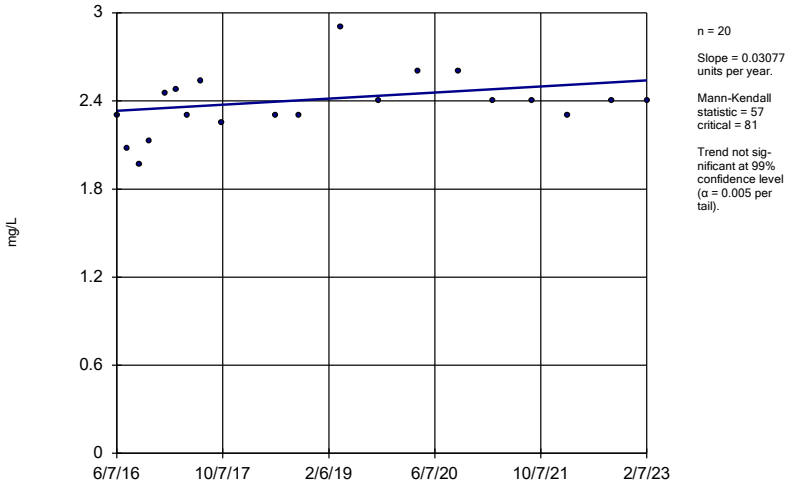
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-20S (bg)



n = 20

Slope = 0.03077 units per year.

Mann-Kendall statistic = 57
critical = 81

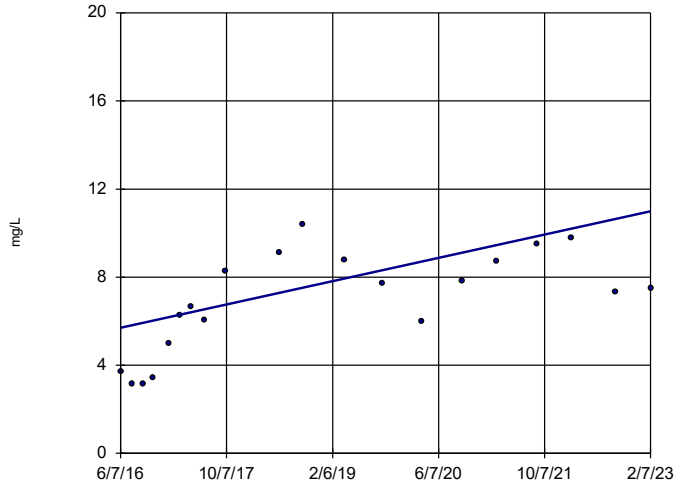
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 20

Slope = 0.7925 units per year.

Mann-Kendall statistic = 98
critical = 81

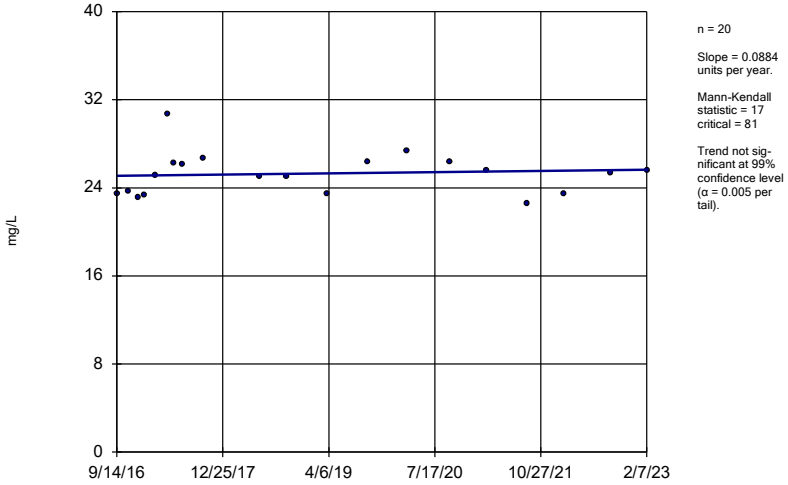
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 20

Slope = 0.0884 units per year.

Mann-Kendall statistic = 17
critical = 81

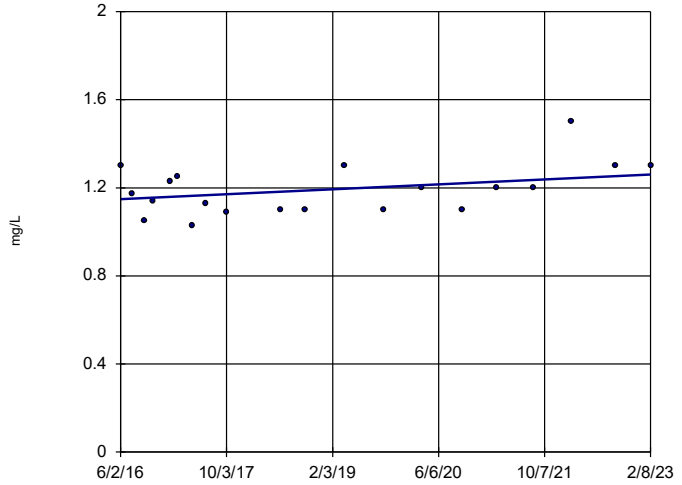
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-30I (bg)



n = 20

Slope = 0.01674 units per year.

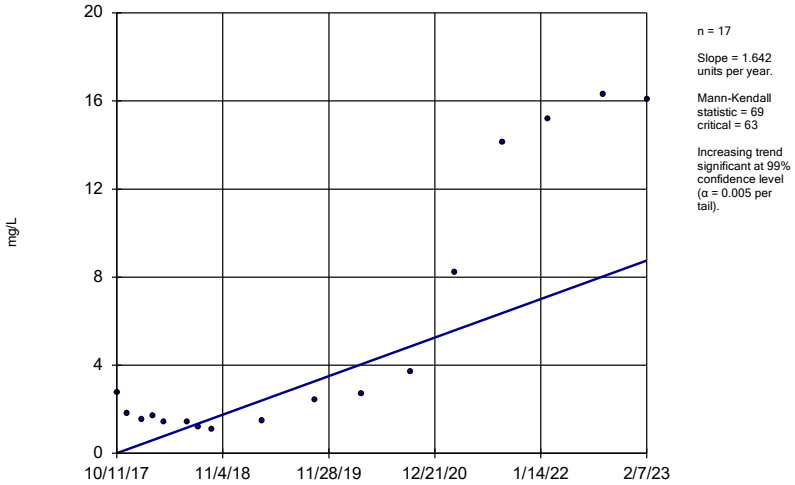
Mann-Kendall statistic = 45
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-39 (bg)



n = 17

Slope = 1.642 units per year.

Mann-Kendall statistic = 69 critical = 63

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

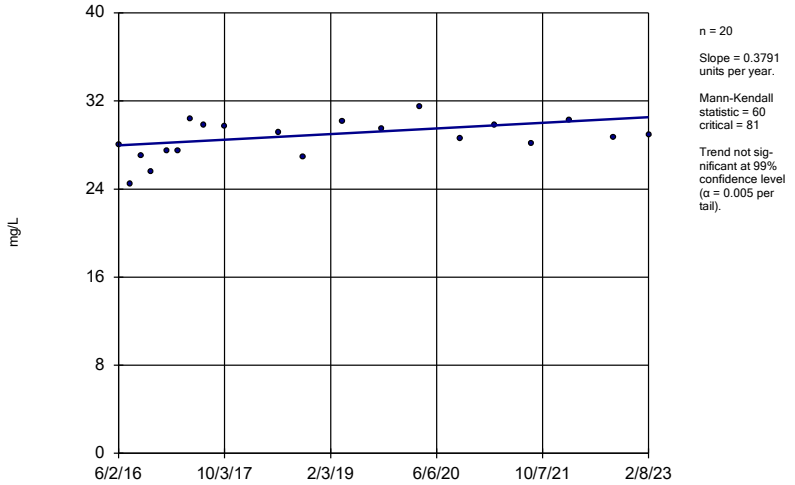
Constituent: Calcium Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 20

Slope = 0.3791 units per year.

Mann-Kendall statistic = 60 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

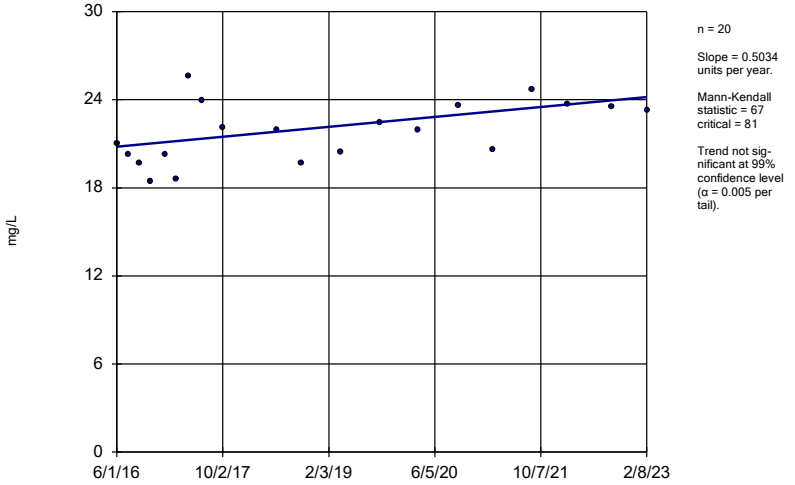
Constituent: Calcium Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 20

Slope = 0.5034 units per year.

Mann-Kendall statistic = 67 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/2/2023 1:02 PM View: Trend Tests

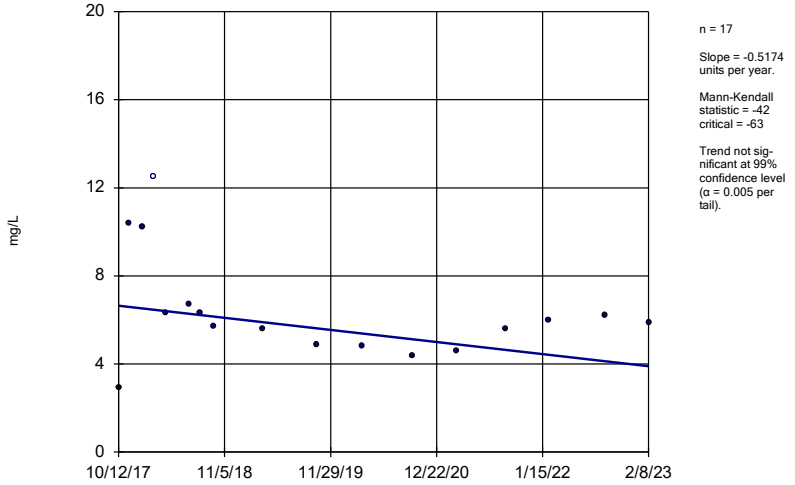
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 17

Slope = -0.5174 units per year.

Mann-Kendall statistic = -42 critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

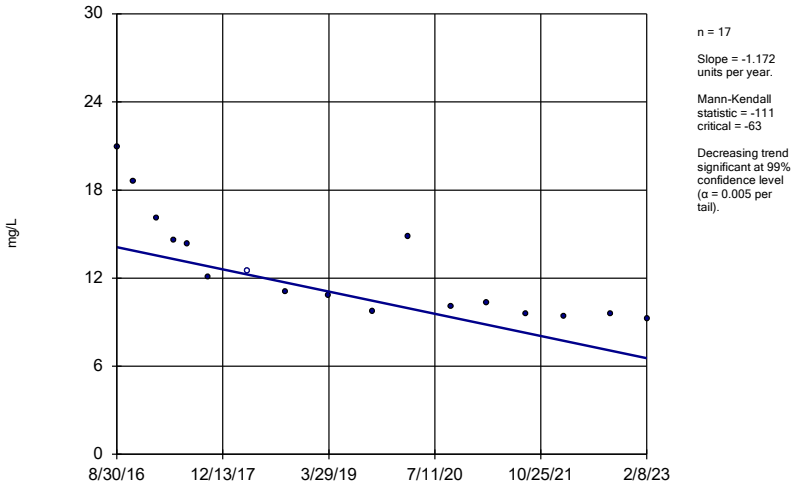
Constituent: Calcium Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 17

Slope = -1.172 units per year.

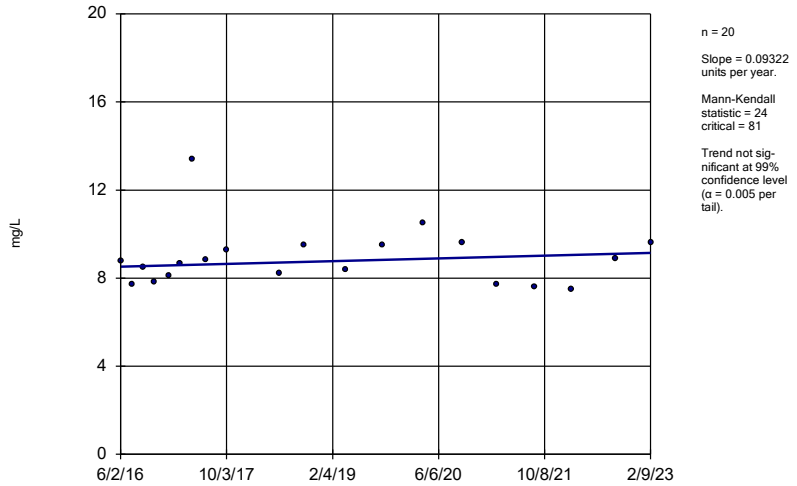
Mann-Kendall statistic = -111
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-4I (bg)



n = 20

Slope = 0.09322 units per year.

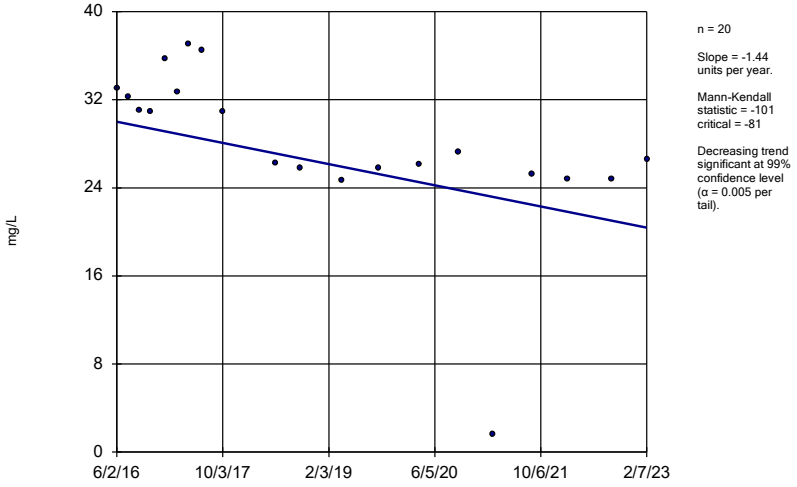
Mann-Kendall statistic = 24
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-5D (bg)



n = 20

Slope = -1.44 units per year.

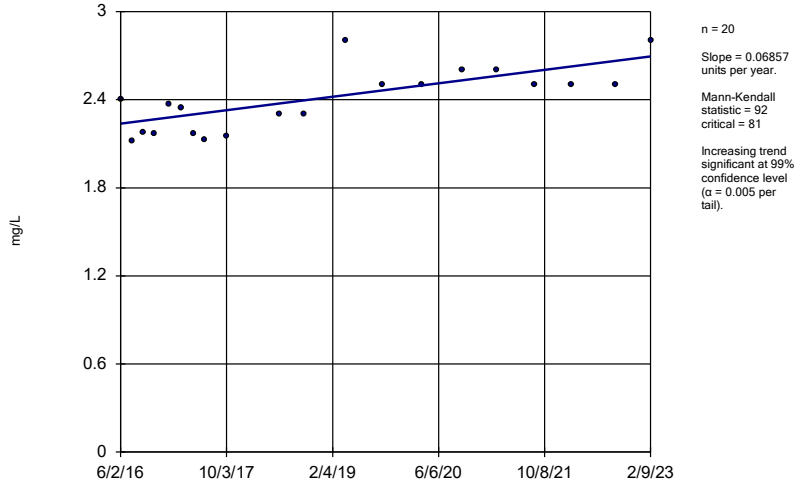
Mann-Kendall statistic = -101
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-5I (bg)



n = 20

Slope = 0.06857 units per year.

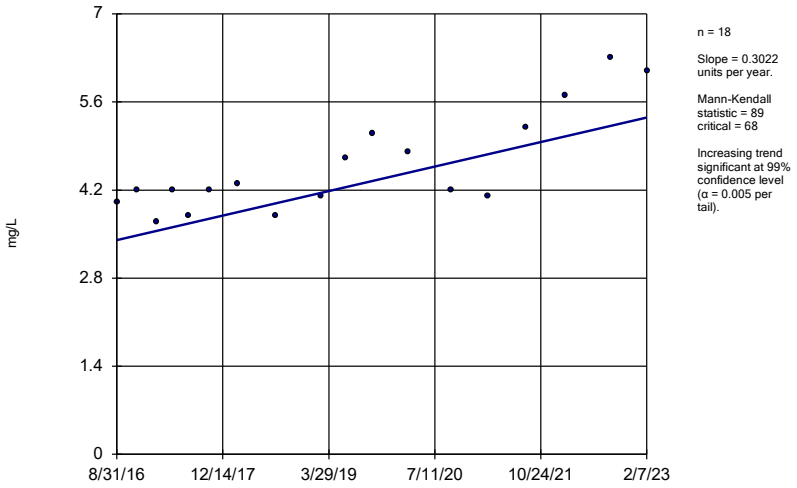
Mann-Kendall statistic = 92
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

GWA-2 (bg)



n = 18

Slope = 0.3022 units per year.

Mann-Kendall statistic = 89
critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

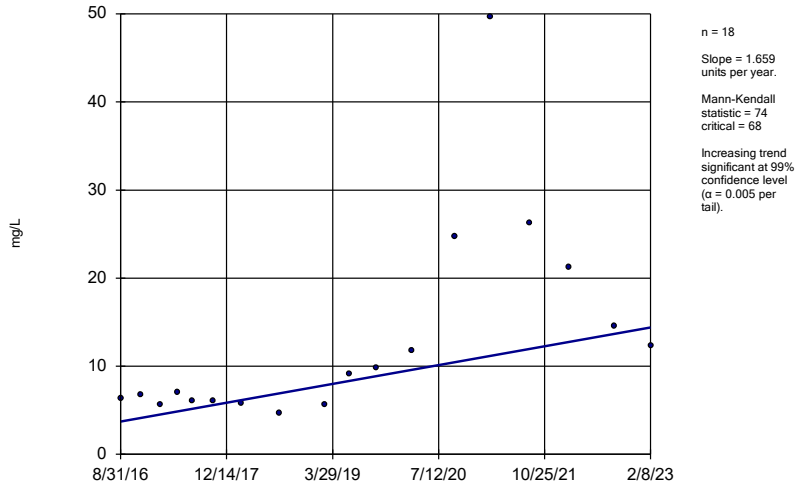
Constituent: Chloride Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-2R



n = 18

Slope = 1.659 units per year.

Mann-Kendall statistic = 74
critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

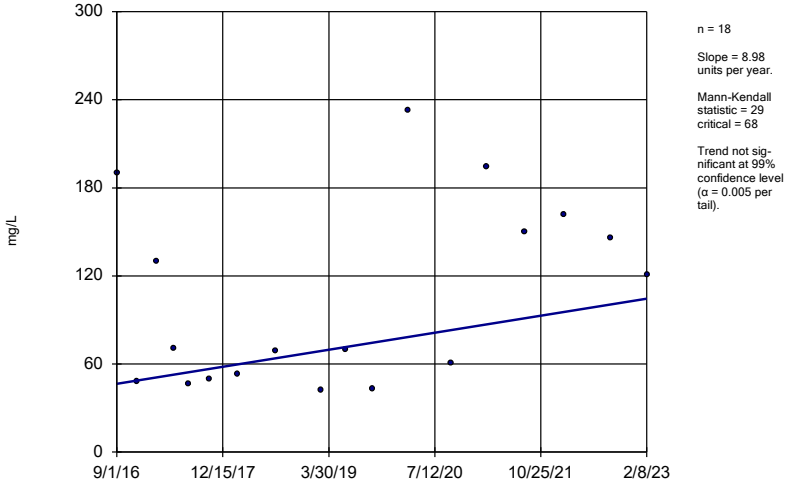
Constituent: Chloride Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-4R



n = 18

Slope = 8.98 units per year.

Mann-Kendall statistic = 29
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

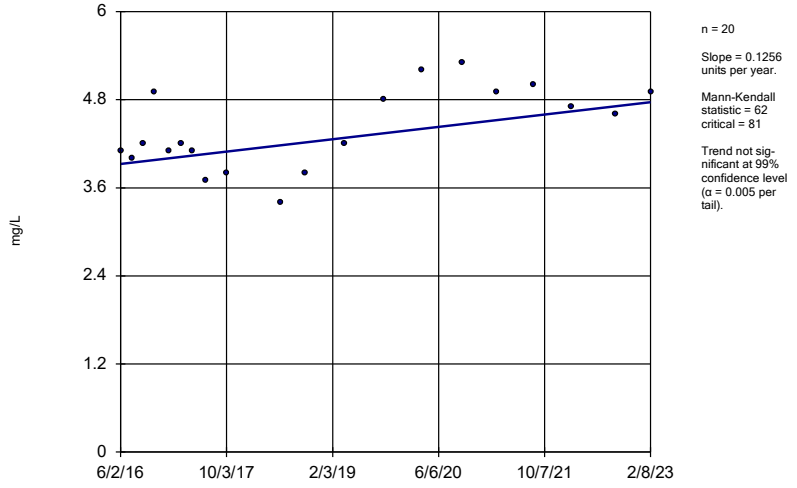
Constituent: Chloride Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 20

Slope = 0.1256 units per year.

Mann-Kendall statistic = 62
critical = 81

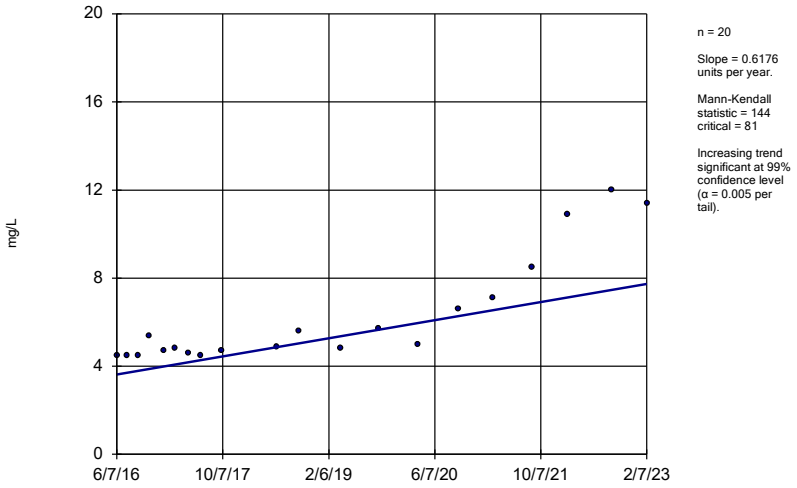
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-17S (bg)



n = 20

Slope = 0.6176 units per year.

Mann-Kendall statistic = 144 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

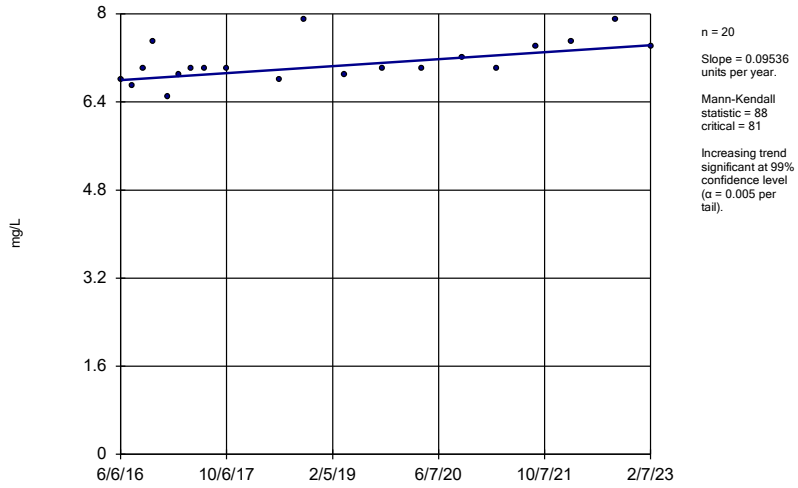
Constituent: Chloride Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18I (bg)



n = 20

Slope = 0.09536 units per year.

Mann-Kendall statistic = 88 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

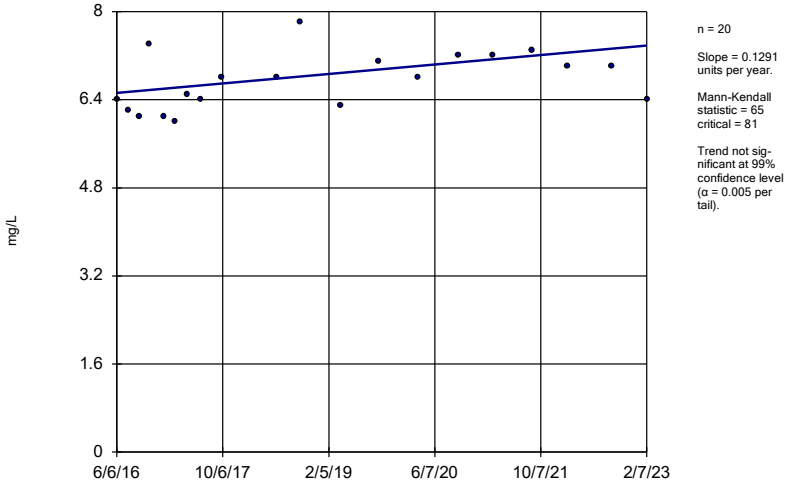
Constituent: Chloride Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 20

Slope = 0.1291 units per year.

Mann-Kendall statistic = 65 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

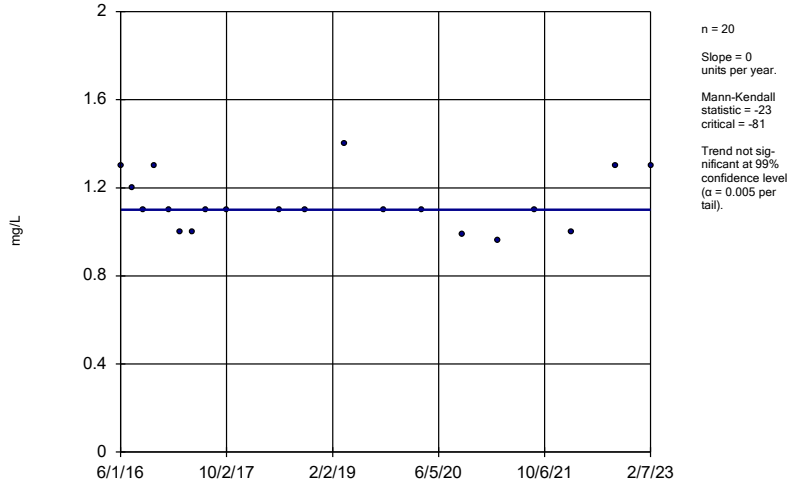
Constituent: Chloride Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -23 critical = -81

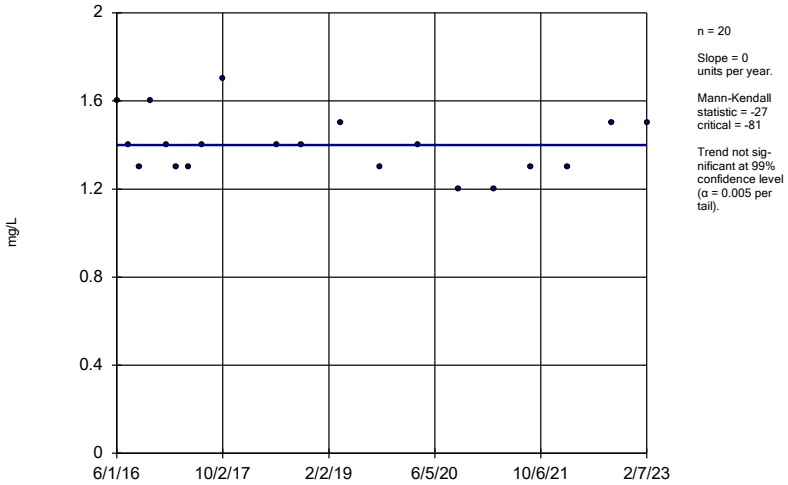
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-1I (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -27 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

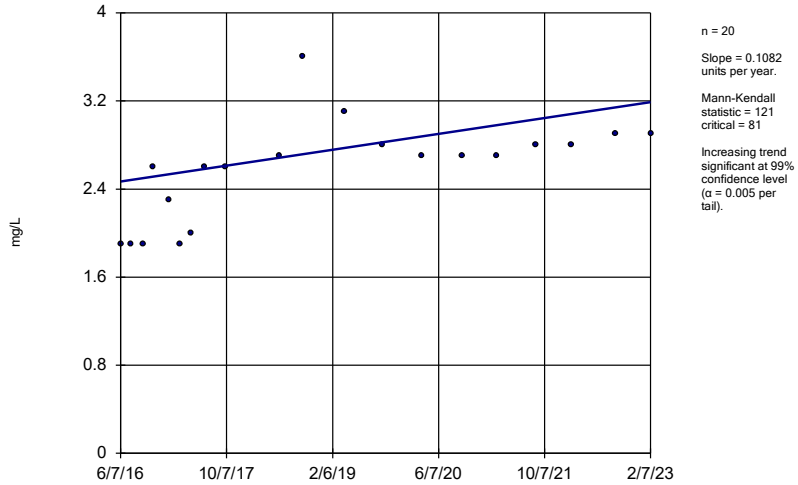
Constituent: Chloride Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-20S (bg)



n = 20

Slope = 0.1082 units per year.

Mann-Kendall statistic = 121 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

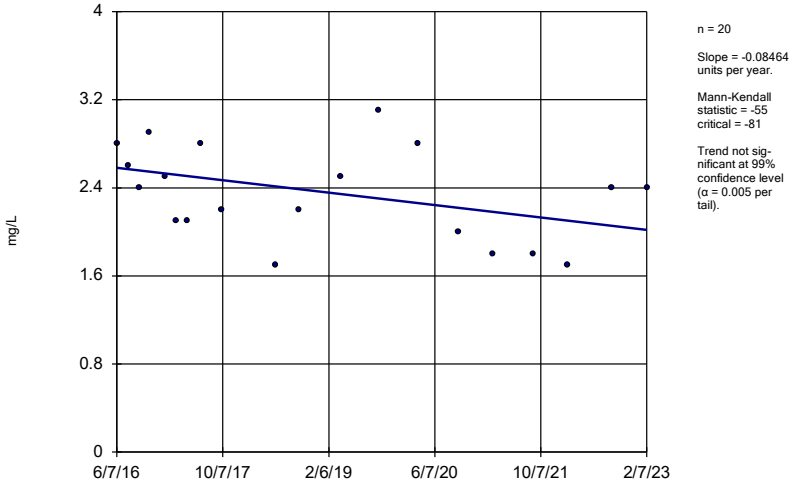
Constituent: Chloride Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 20

Slope = -0.08464 units per year.

Mann-Kendall statistic = -55 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

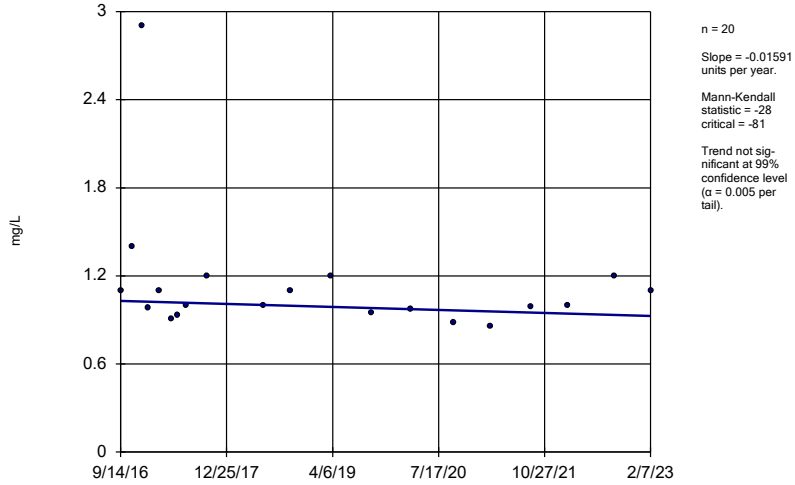
Constituent: Chloride Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 20

Slope = -0.01591 units per year.

Mann-Kendall statistic = -28 critical = -81

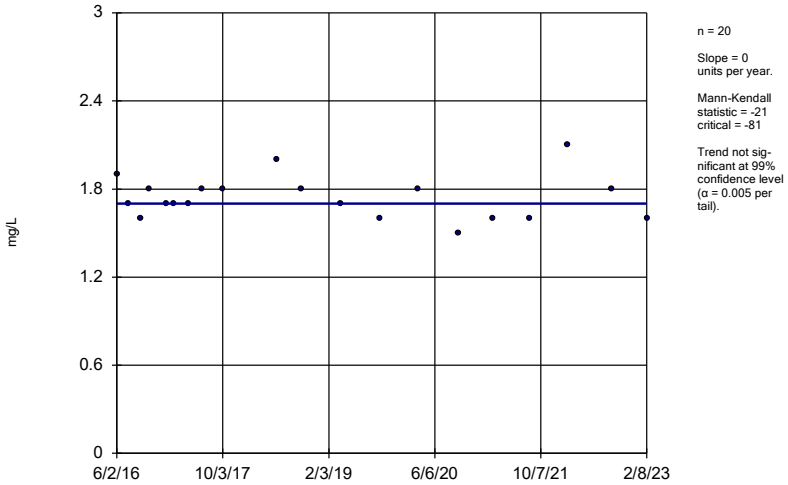
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-30I (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = -21
critical = -81

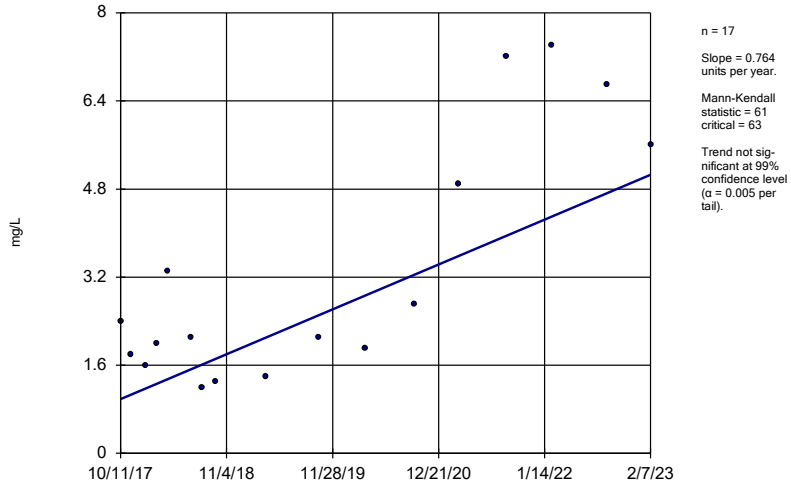
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 17

Slope = 0.764 units per year.

Mann-Kendall statistic = 61
critical = 63

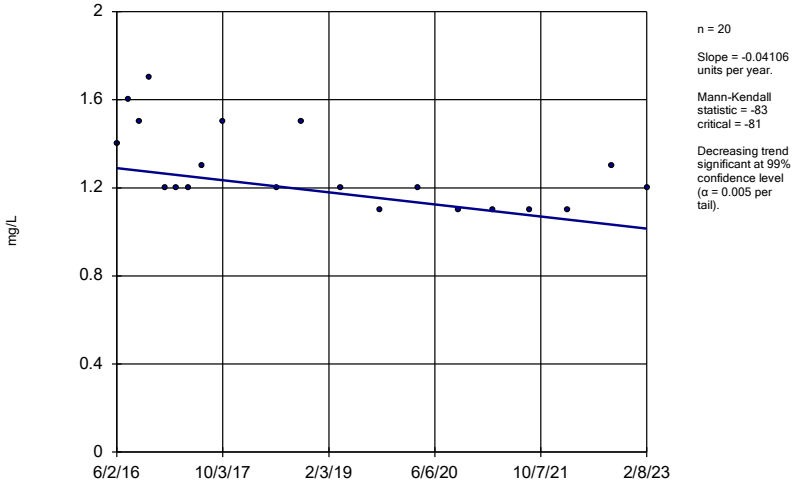
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 20

Slope = -0.04106 units per year.

Mann-Kendall statistic = -83
critical = -81

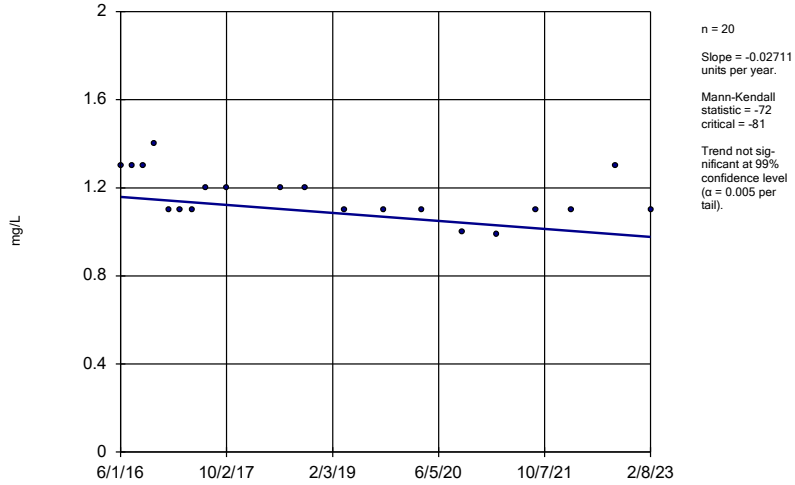
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 20

Slope = -0.02711 units per year.

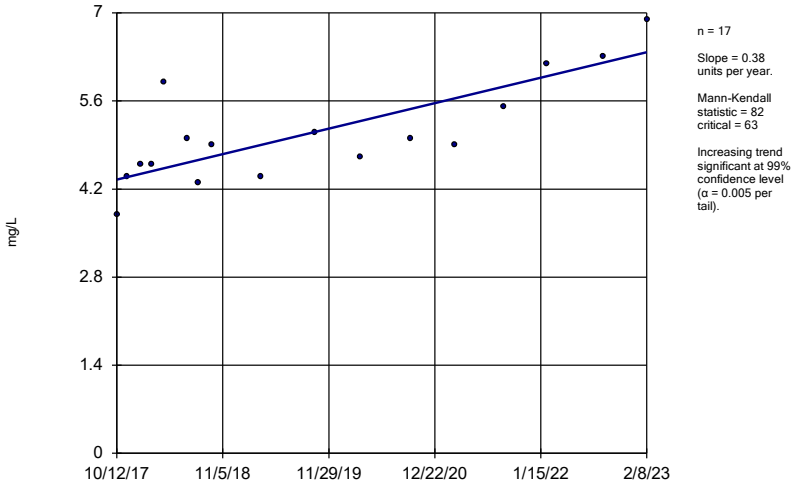
Mann-Kendall statistic = -72
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2023 1:02 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-40 (bg)



n = 17

Slope = 0.38 units per year.

Mann-Kendall statistic = 82 critical = 63

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

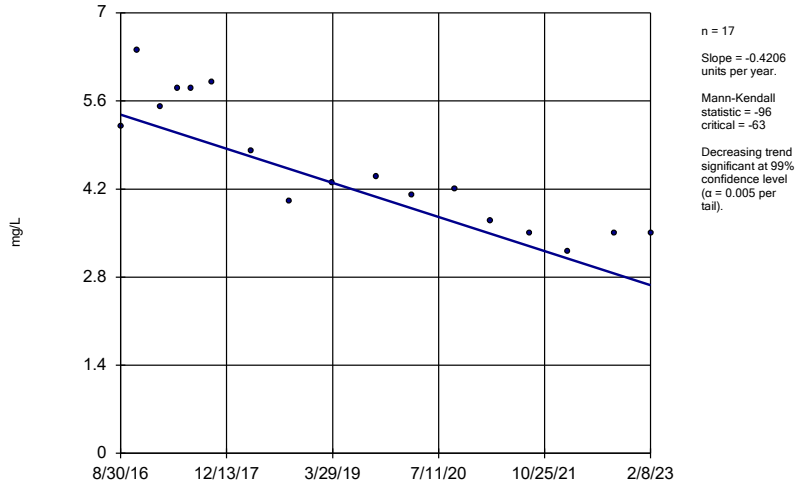
Constituent: Chloride Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 17

Slope = -0.4206 units per year.

Mann-Kendall statistic = -96 critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

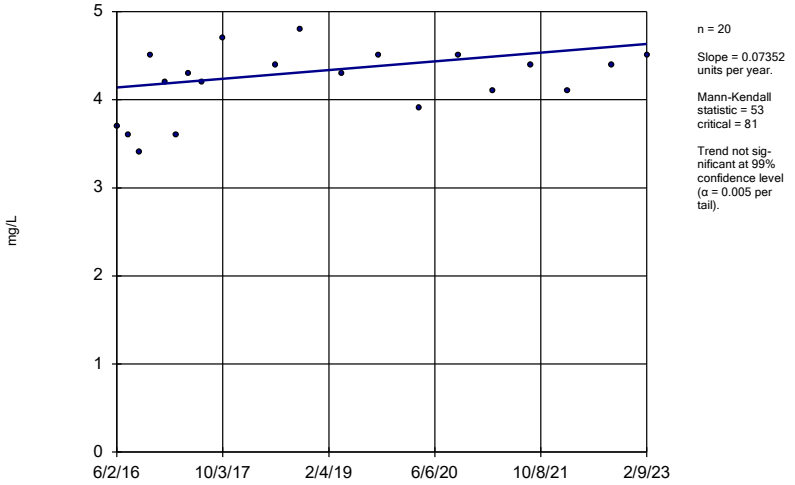
Constituent: Chloride Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 20

Slope = 0.07352 units per year.

Mann-Kendall statistic = 53 critical = 81

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

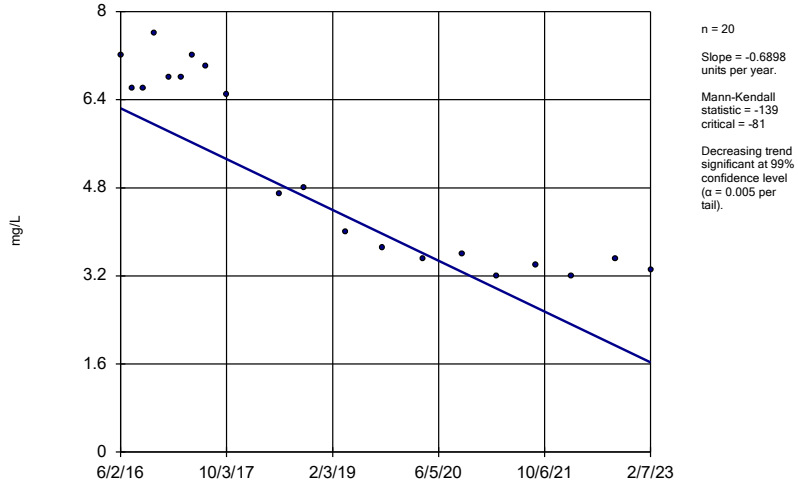
Constituent: Chloride Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 20

Slope = -0.6898 units per year.

Mann-Kendall statistic = -139 critical = -81

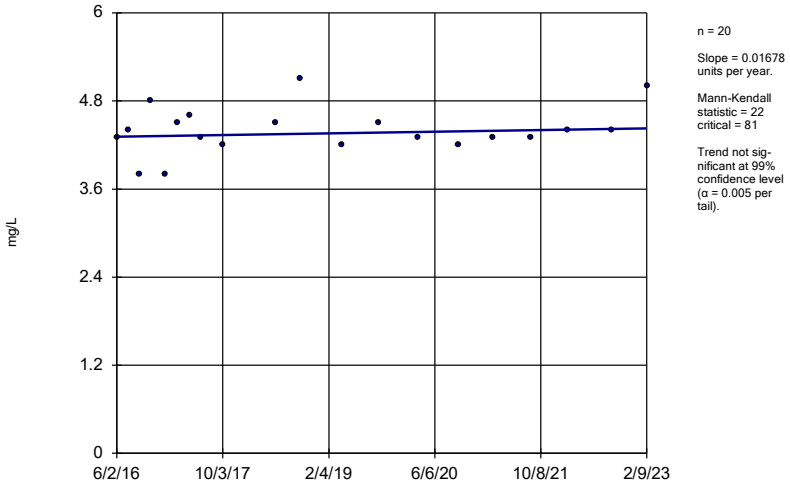
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-5I (bg)



n = 20

Slope = 0.01678 units per year.

Mann-Kendall statistic = 22 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

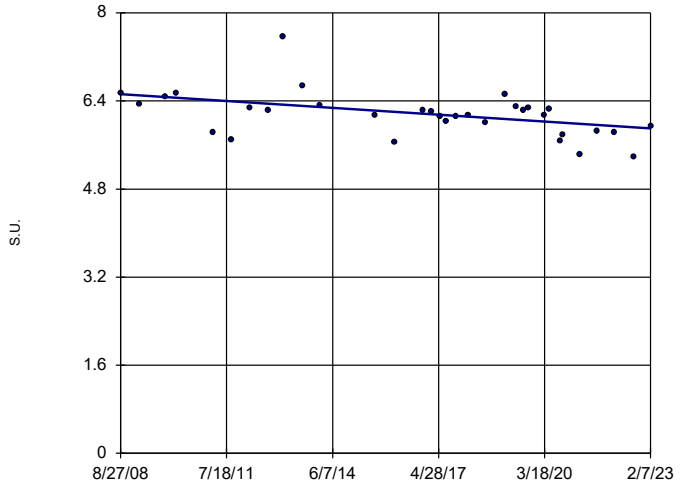
Constituent: Chloride Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWA-2 (bg)



n = 33

Slope = -0.04289 units per year.

Mann-Kendall statistic = -209 critical = -167

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

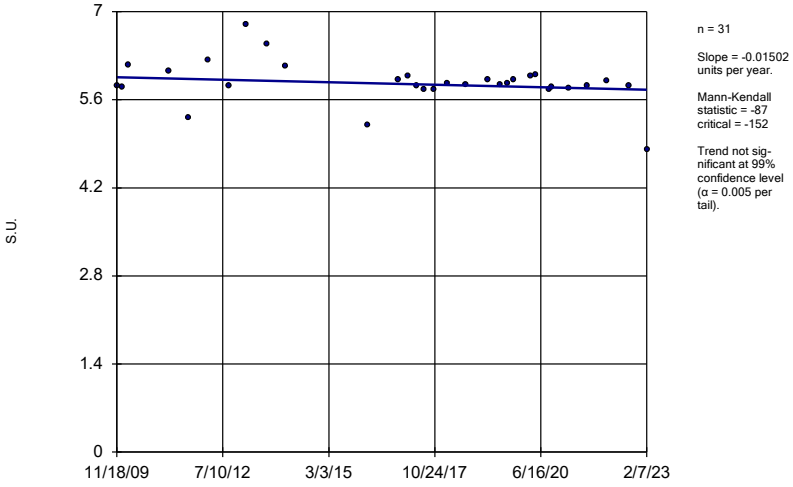
Constituent: pH Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-6R



n = 31

Slope = -0.01502 units per year.

Mann-Kendall statistic = -87 critical = -152

Trend not significant at 99% confidence level (α = 0.005 per tail).

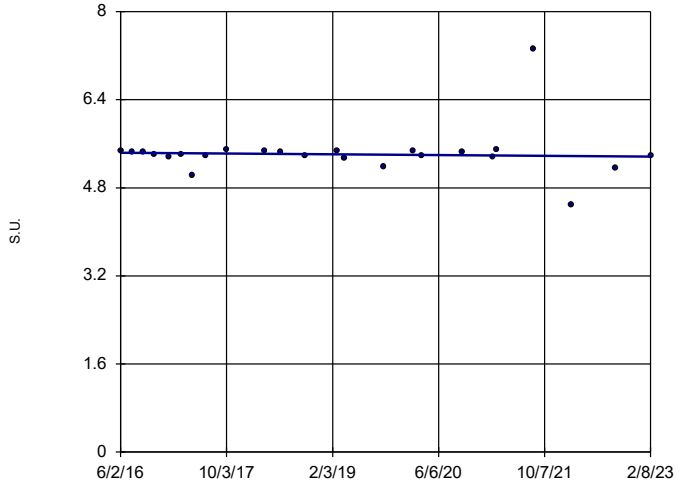
Constituent: pH Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 24

Slope = -0.009636 units per year.

Mann-Kendall statistic = -37 critical = -105

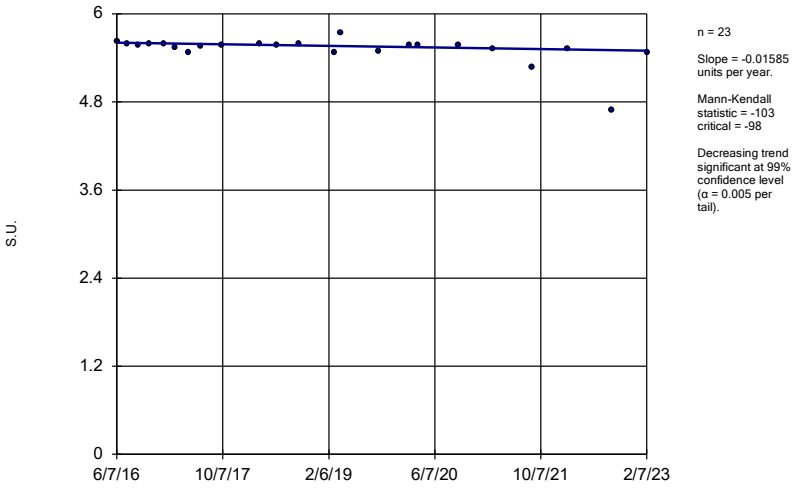
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-17S (bg)



n = 23

Slope = -0.01585 units per year.

Mann-Kendall statistic = -103 critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

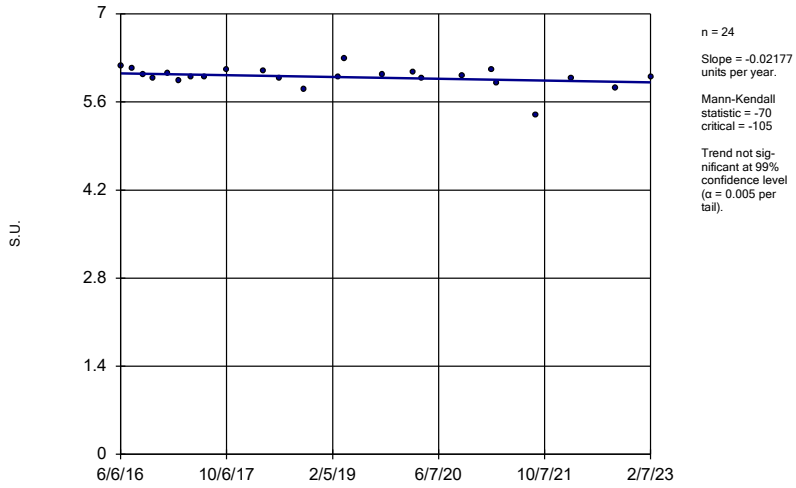
Constituent: pH Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18I (bg)



n = 24

Slope = -0.02177 units per year.

Mann-Kendall statistic = -70 critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

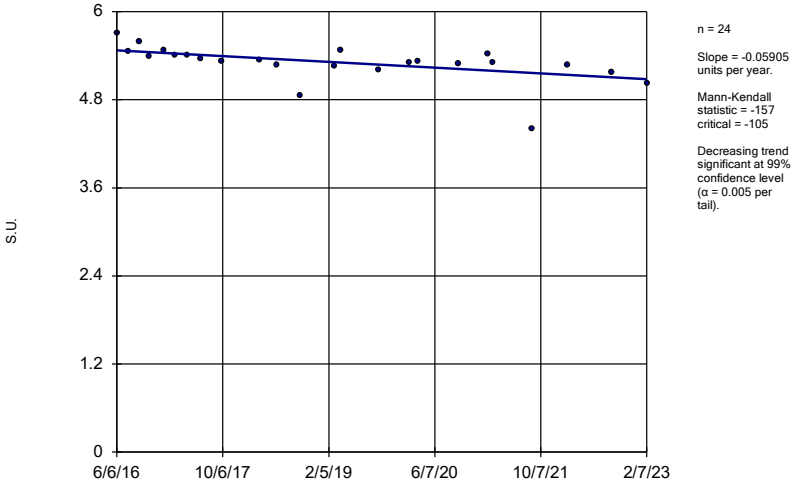
Constituent: pH Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18S (bg)



n = 24

Slope = -0.05905 units per year.

Mann-Kendall statistic = -157 critical = -105

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

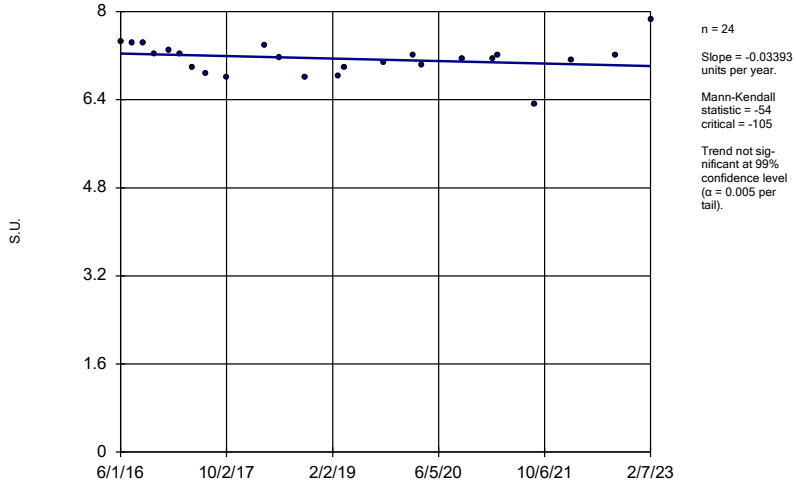
Constituent: pH Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 24

Slope = -0.03393 units per year.

Mann-Kendall statistic = -54 critical = -105

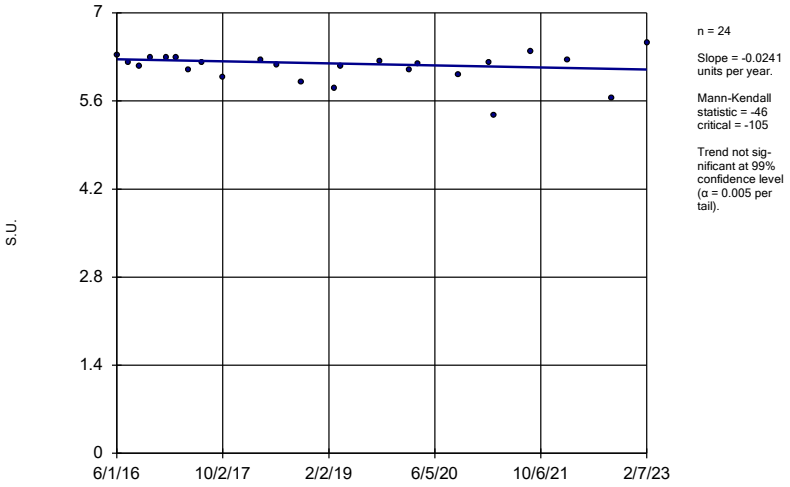
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/2/2023 1:02 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-1I (bg)



n = 24

Slope = -0.0241 units per year.

Mann-Kendall statistic = -46 critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

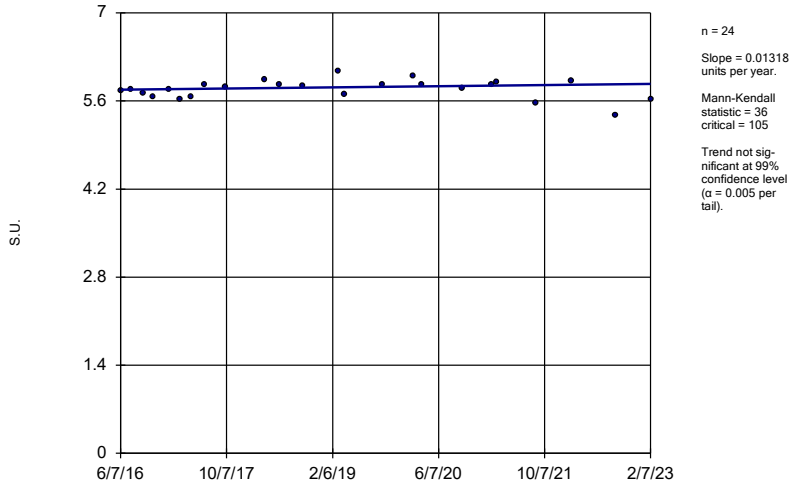
Constituent: pH Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-20S (bg)



n = 24

Slope = 0.01318 units per year.

Mann-Kendall statistic = 36 critical = 105

Trend not significant at 99% confidence level (α = 0.005 per tail).

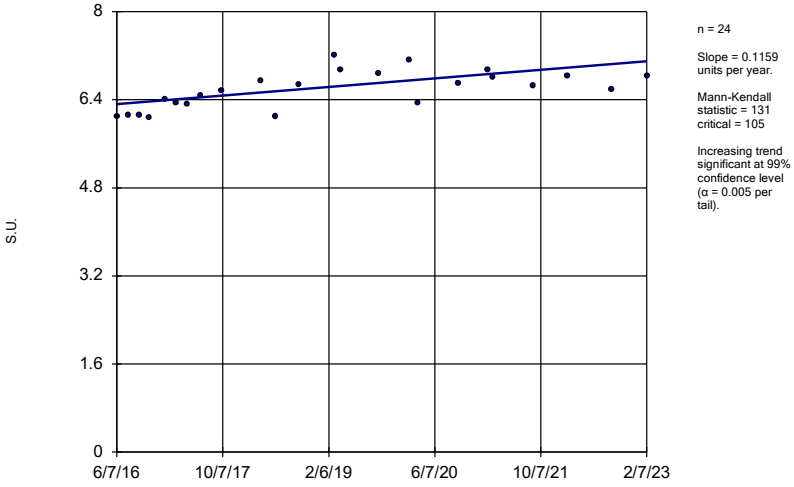
Constituent: pH Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 24

Slope = 0.1159 units per year.

Mann-Kendall statistic = 131 critical = 105

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

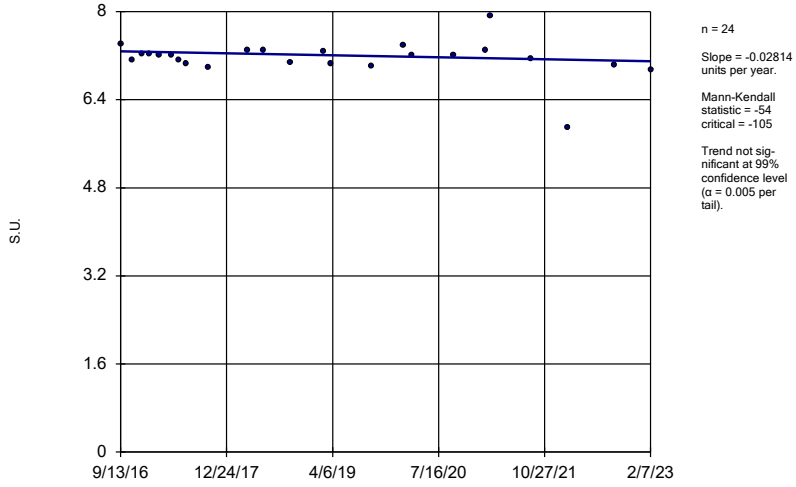
Constituent: pH Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 24

Slope = -0.02814 units per year.

Mann-Kendall statistic = -54 critical = -105

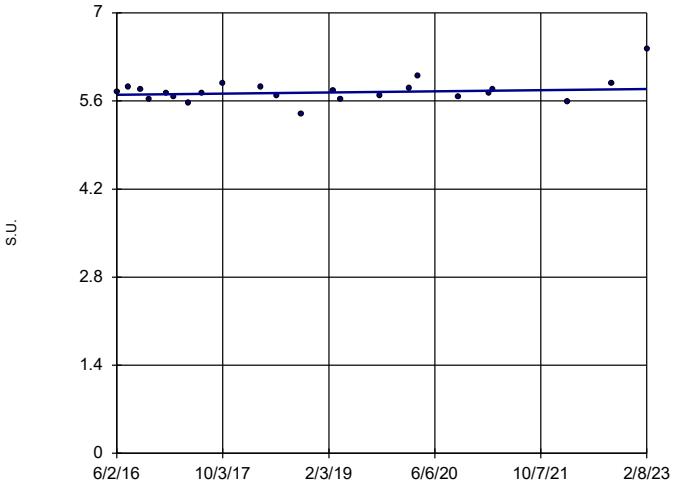
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-30I (bg)



n = 23

Slope = 0.01352 units per year.

Mann-Kendall statistic = 31 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

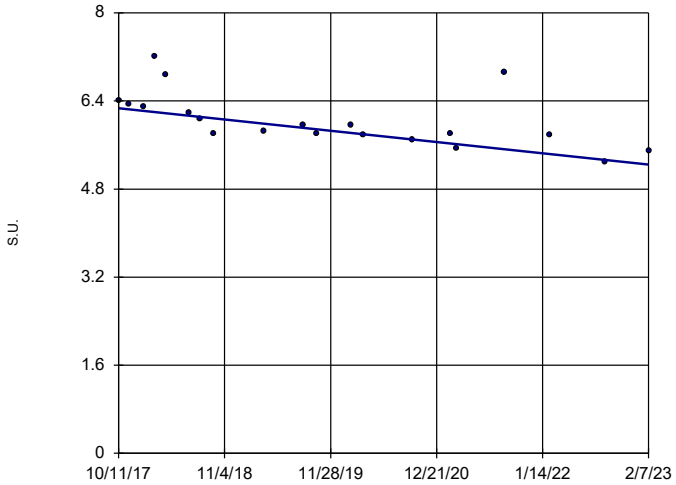
Constituent: pH Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 20

Slope = -0.1921 units per year.

Mann-Kendall statistic = -122 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

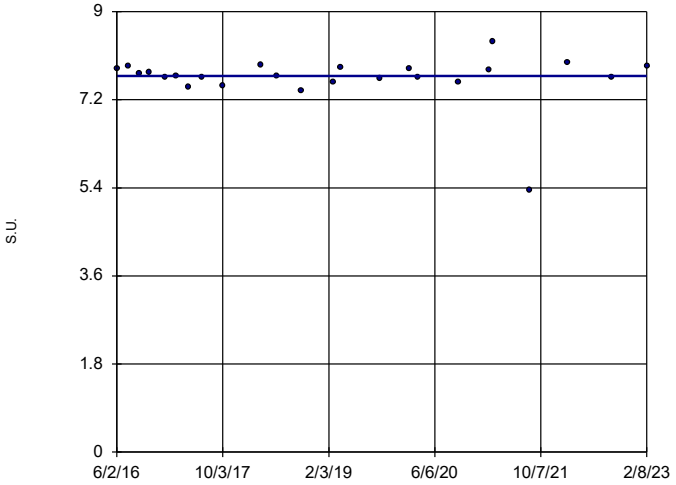
Constituent: pH Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 24

Slope = 0 units per year.

Mann-Kendall statistic = -2 critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

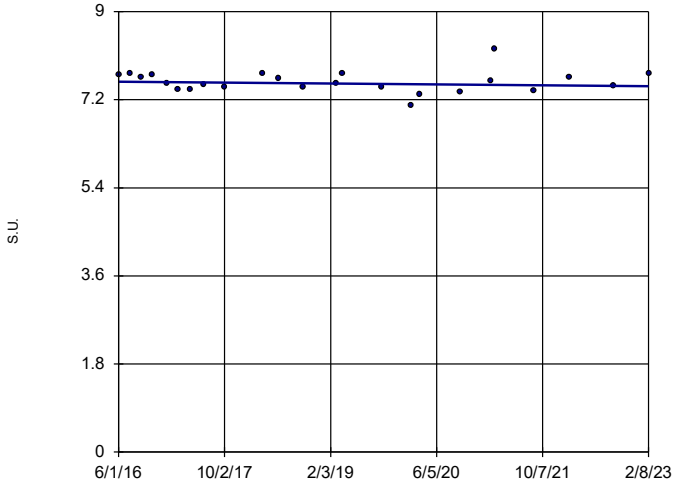
Constituent: pH Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 24

Slope = -0.01413 units per year.

Mann-Kendall statistic = -30 critical = -105

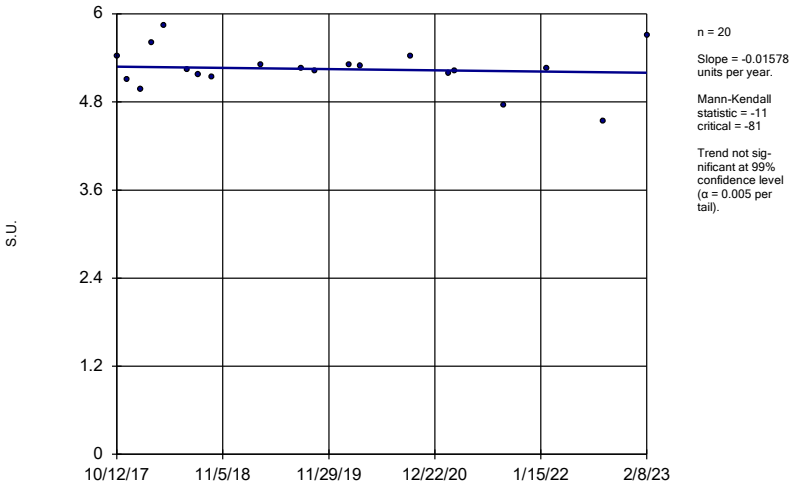
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-40 (bg)



n = 20

Slope = -0.01578 units per year.

Mann-Kendall statistic = -11
critical = -81

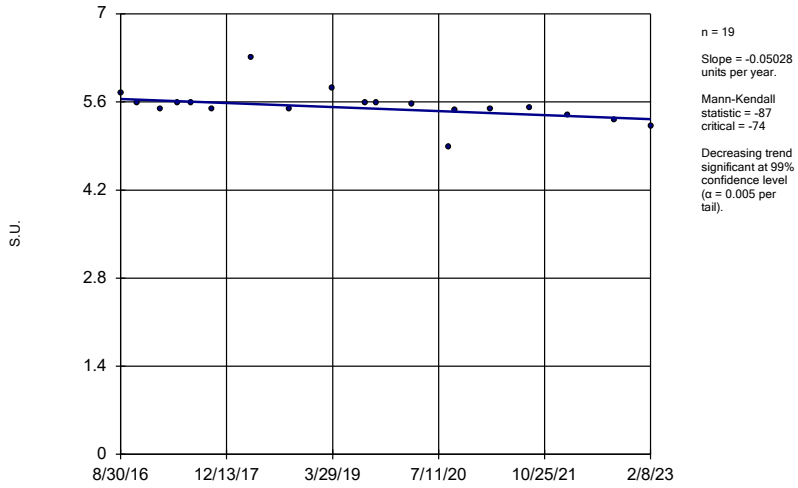
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/2/2023 1:03 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 19

Slope = -0.05028 units per year.

Mann-Kendall statistic = -87
critical = -74

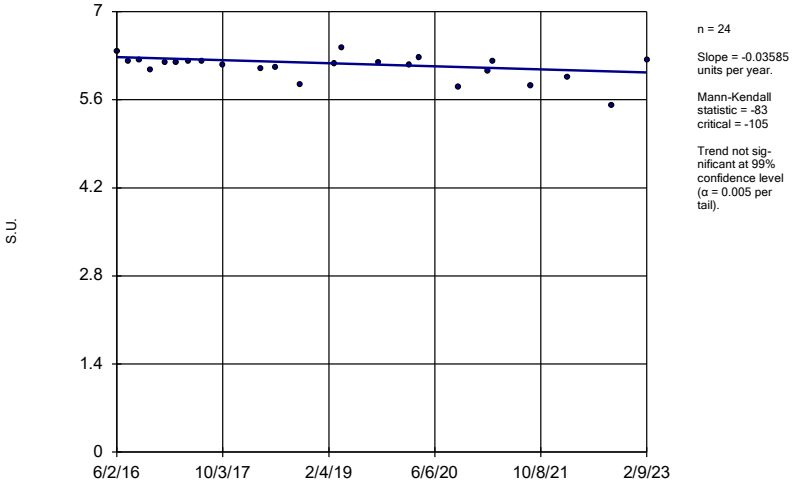
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/2/2023 1:03 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-4I (bg)



n = 24

Slope = -0.03585 units per year.

Mann-Kendall statistic = -83
critical = -105

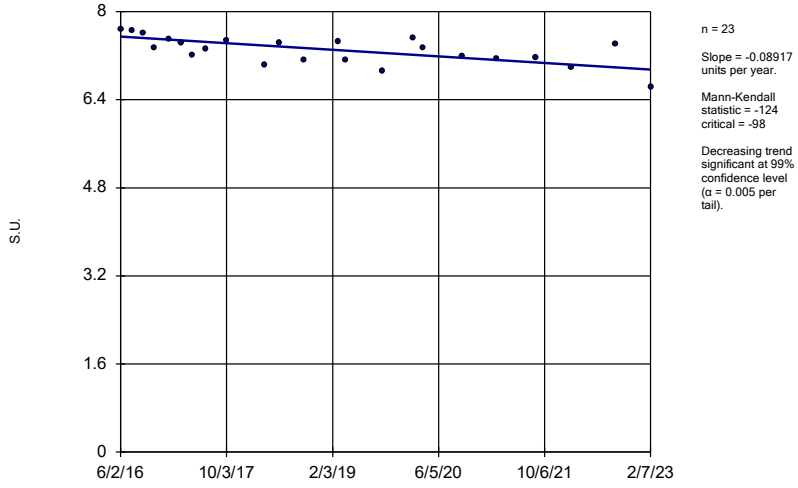
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/2/2023 1:03 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 23

Slope = -0.08917 units per year.

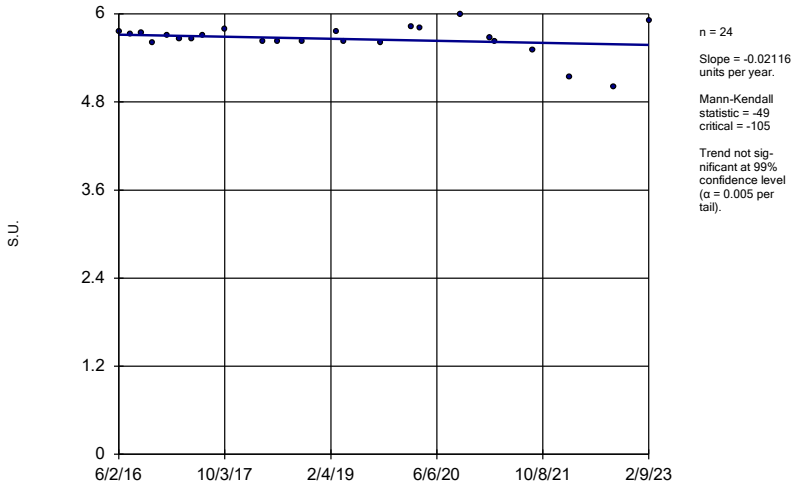
Mann-Kendall statistic = -124
critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 5/2/2023 1:03 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-5I (bg)



n = 24

Slope = -0.02116 units per year.

Mann-Kendall statistic = -49 critical = -105

Trend not significant at 99% confidence level (α = 0.005 per tail).

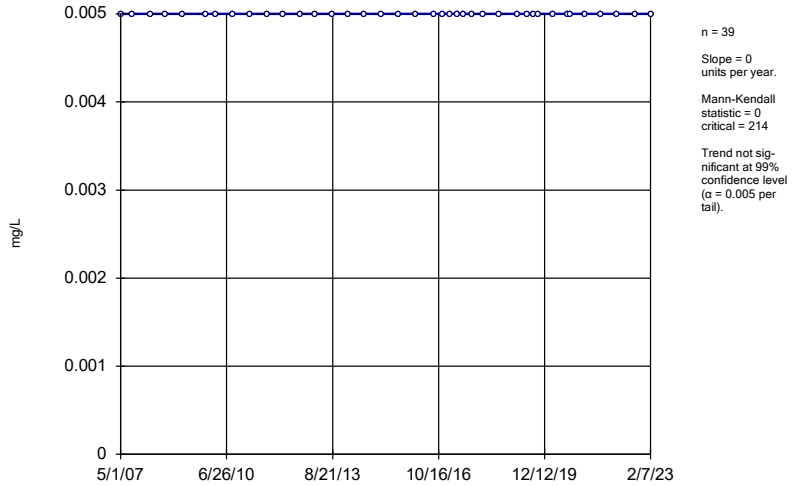
Constituent: pH Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 39

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 214

Trend not significant at 99% confidence level (α = 0.005 per tail).

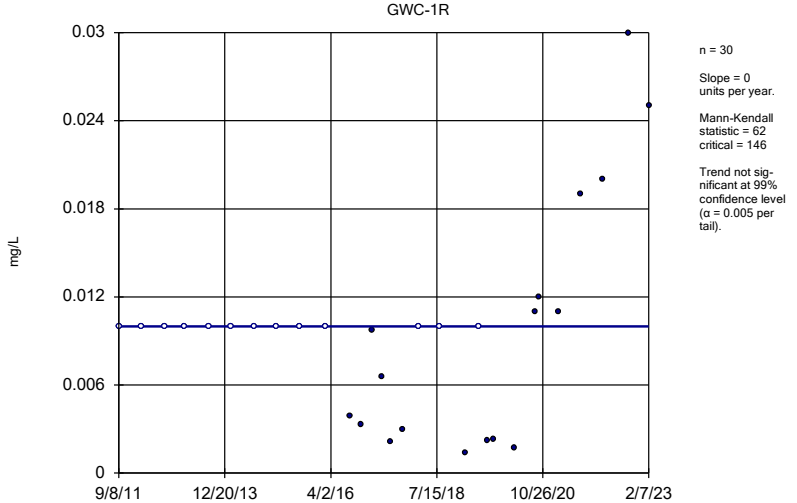
Constituent: Selenium Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Hollow symbols indicate censored values.

Sen's Slope Estimator

GWC-1R



n = 30

Slope = 0 units per year.

Mann-Kendall statistic = 62 critical = 146

Trend not significant at 99% confidence level (α = 0.005 per tail).

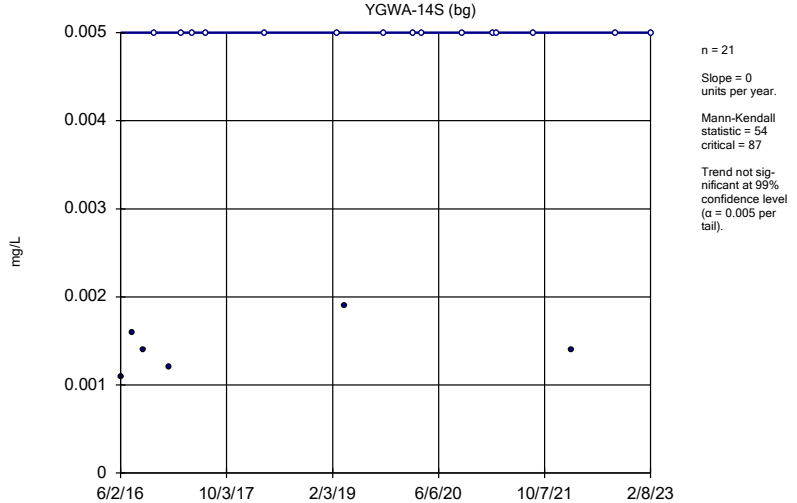
Constituent: Selenium Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 54 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

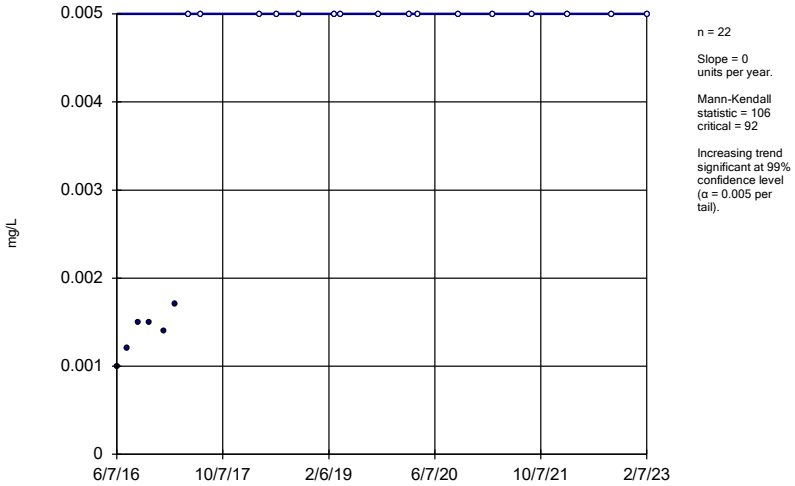
Constituent: Selenium Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 106
critical = 92

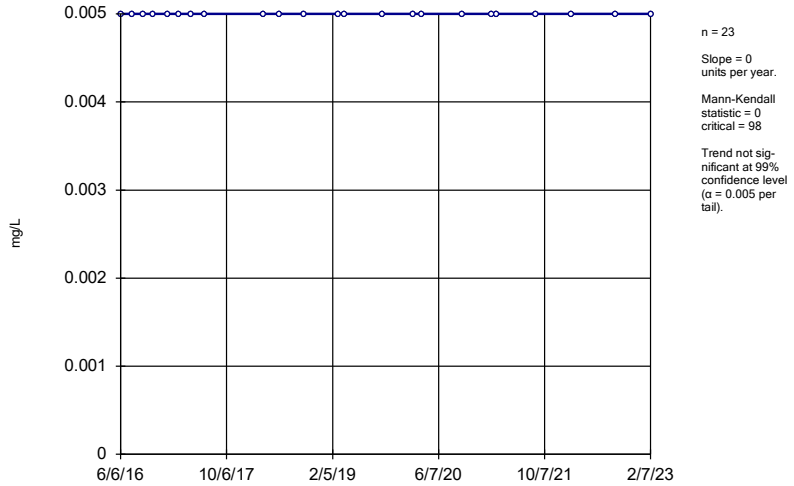
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 5/2/2023 1:03 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 98

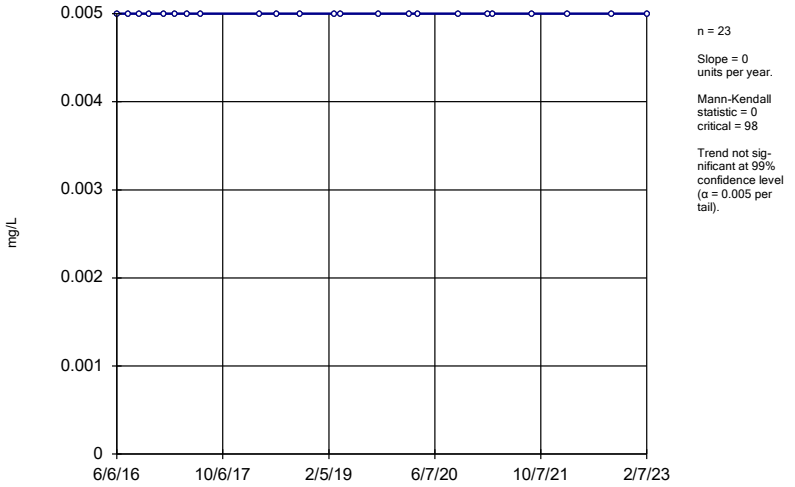
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 5/2/2023 1:03 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 98

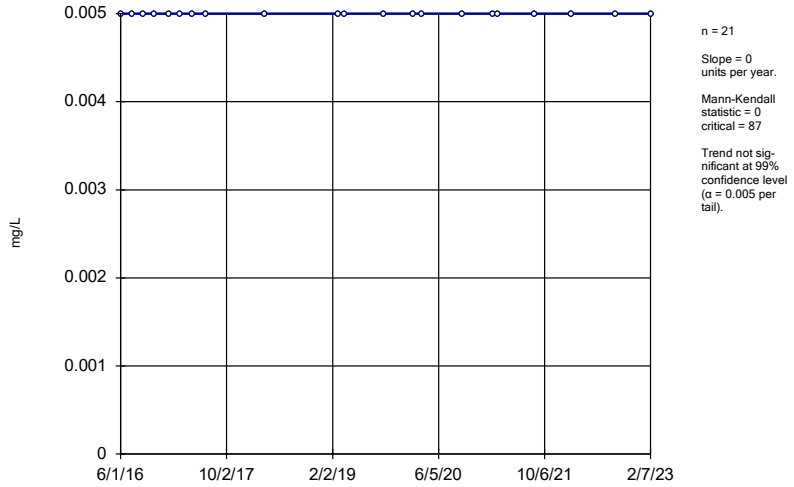
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 5/2/2023 1:03 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 87

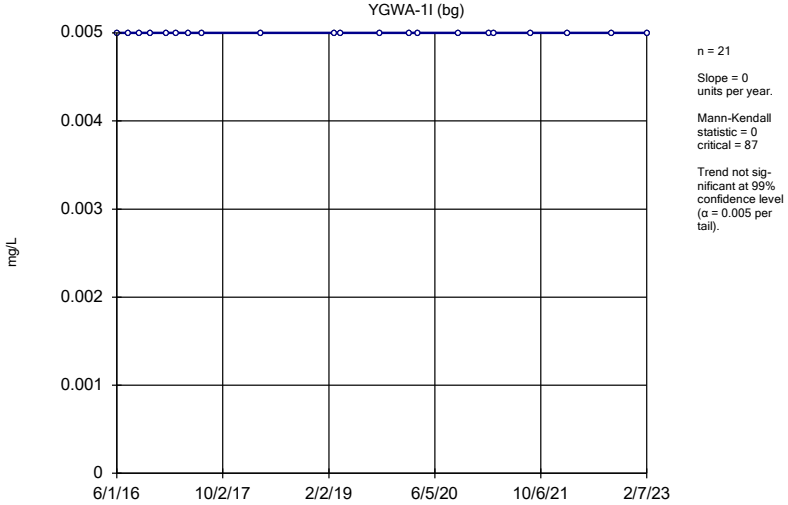
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 5/2/2023 1:03 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

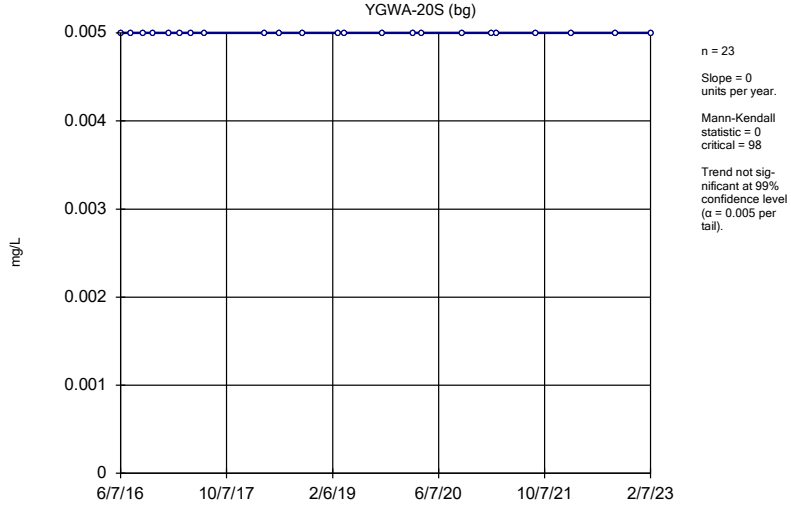
Constituent: Selenium Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

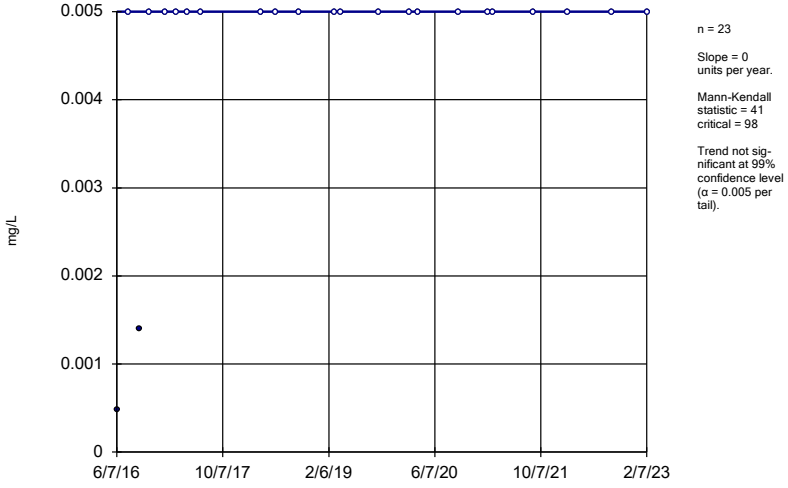
Constituent: Selenium Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 41 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

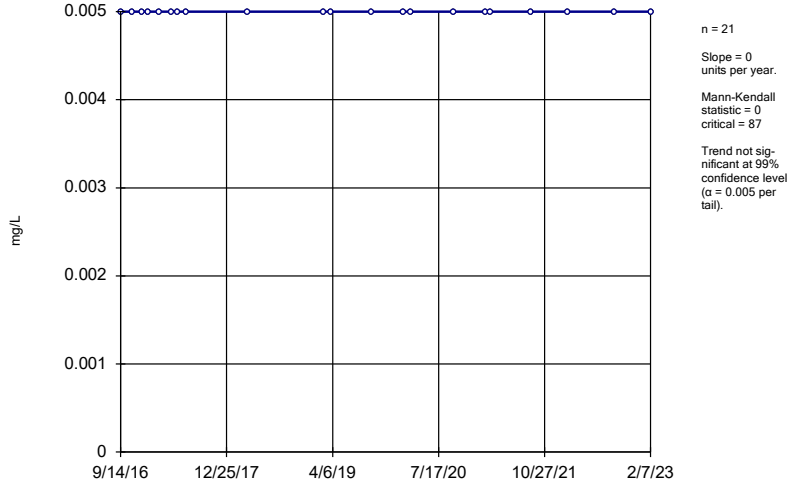
Constituent: Selenium Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0 critical = 87

Trend not significant at 99% confidence level (α = 0.005 per tail).

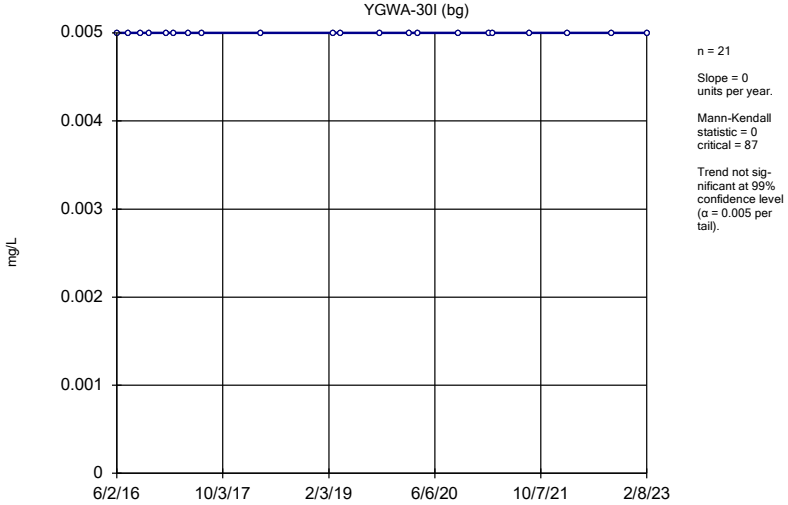
Constituent: Selenium Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 87

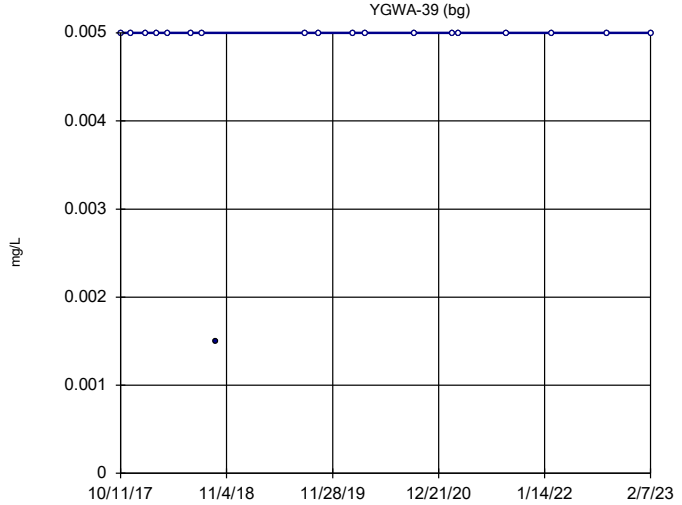
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 5/2/2023 1:03 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = 4
critical = 74

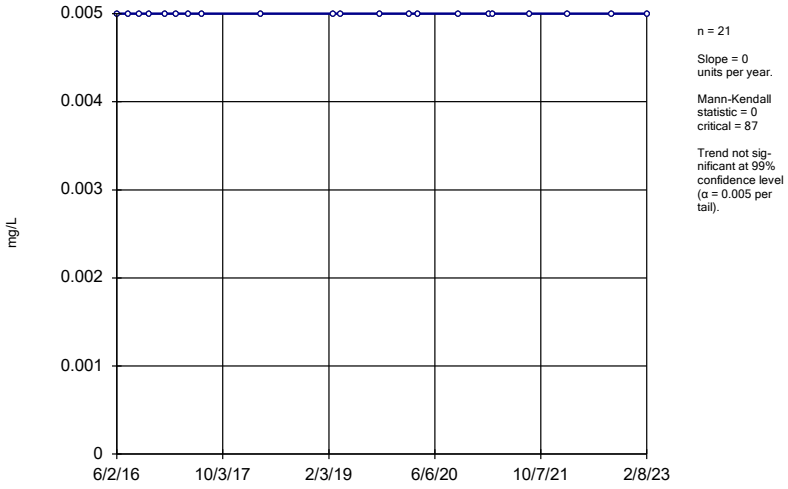
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 5/2/2023 1:03 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 87

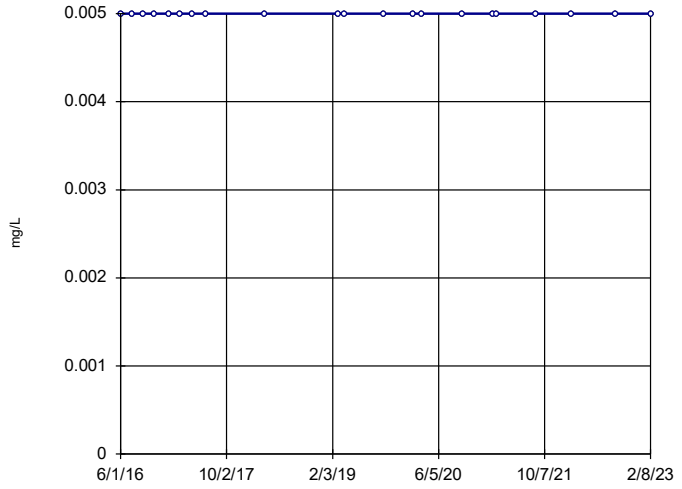
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 5/2/2023 1:03 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 21

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 87

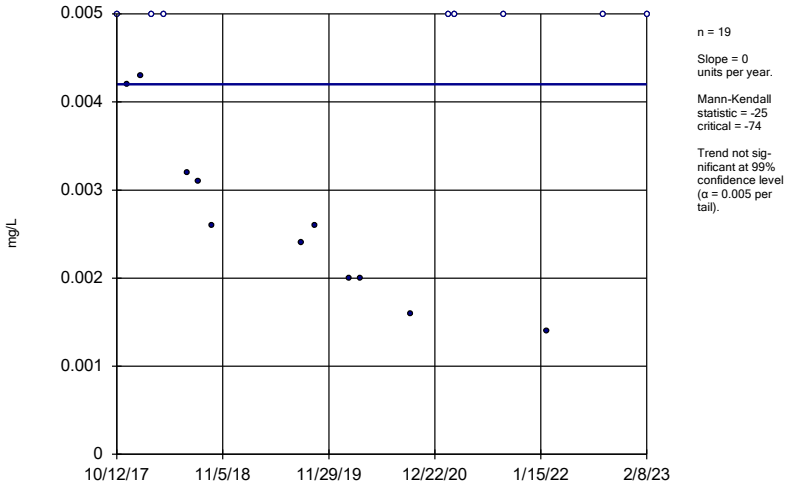
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 5/2/2023 1:03 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-40 (bg)



n = 19

Slope = 0 units per year.

Mann-Kendall statistic = -25
critical = -74

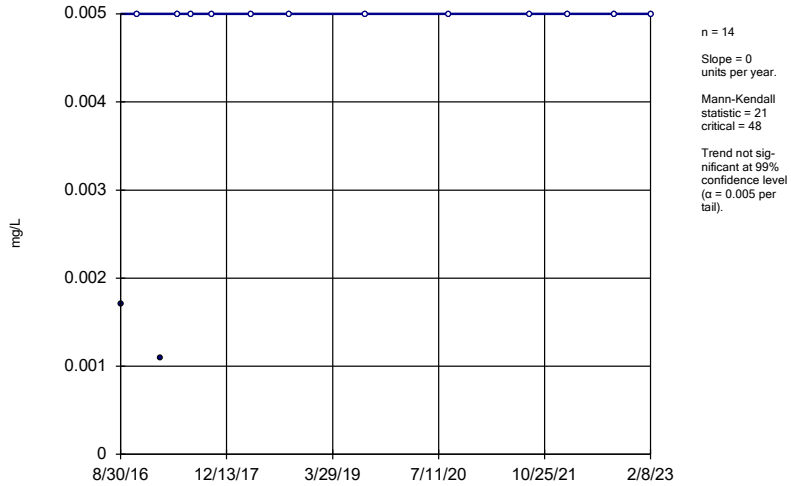
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 5/2/2023 1:03 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 14

Slope = 0 units per year.

Mann-Kendall statistic = 21
critical = 48

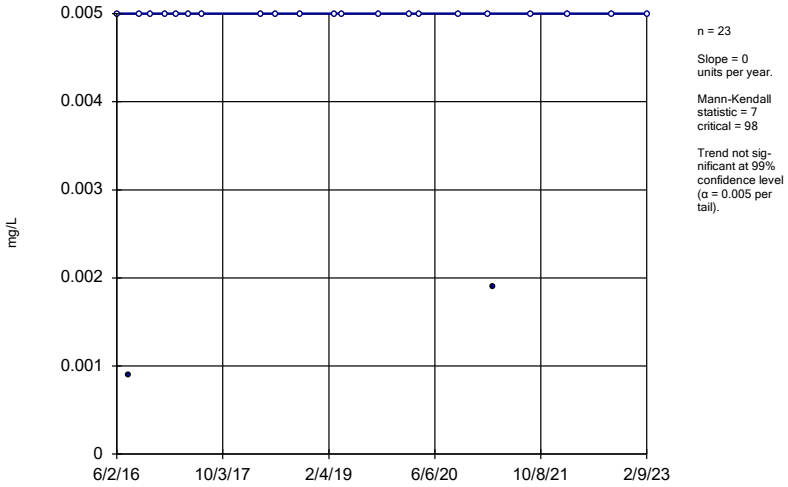
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 5/2/2023 1:03 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 7
critical = 98

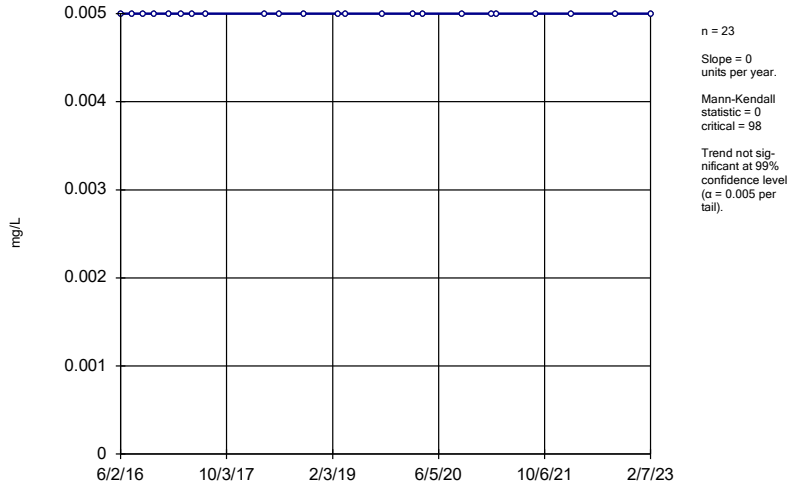
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Selenium Analysis Run 5/2/2023 1:03 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 0
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

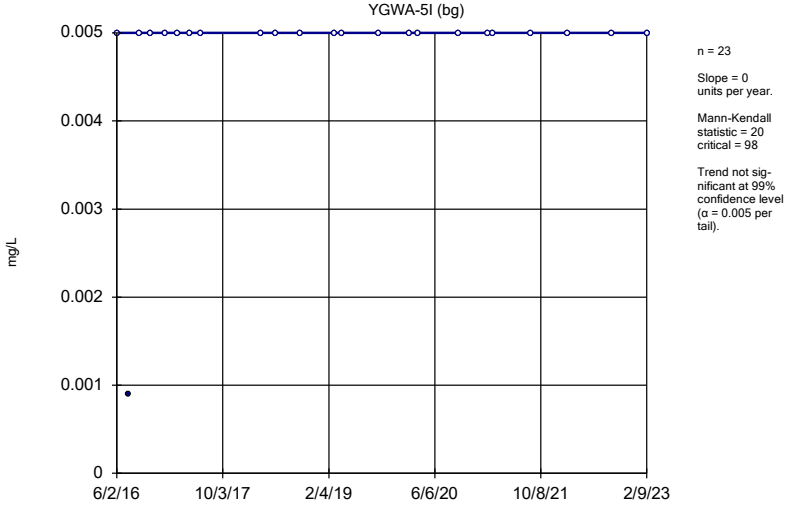
Constituent: Selenium Analysis Run 5/2/2023 1:03 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 20 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

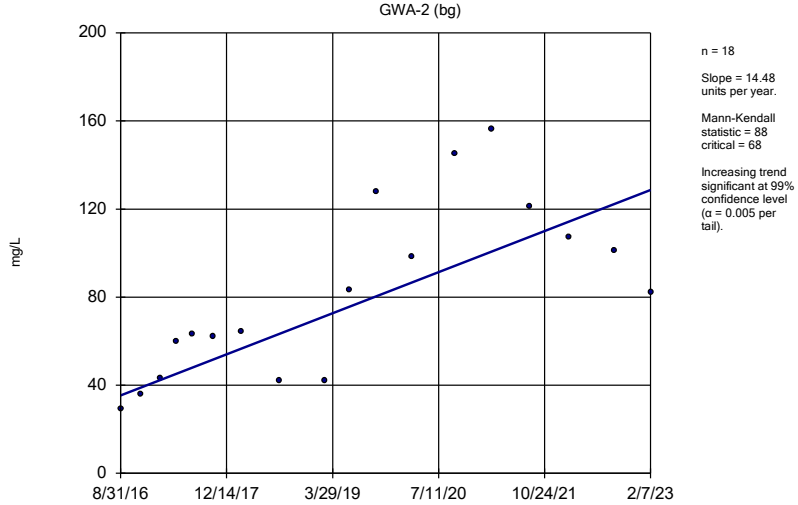
Constituent: Selenium Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWA-2 (bg)



n = 18

Slope = 14.48 units per year.

Mann-Kendall statistic = 88 critical = 68

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

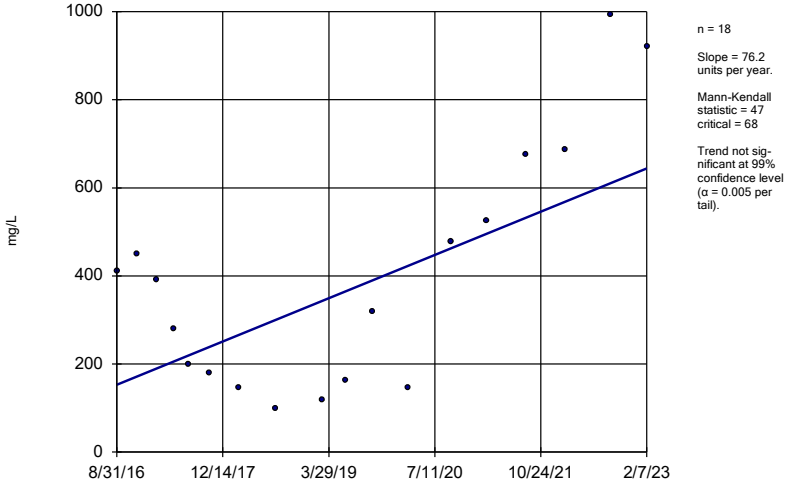
Constituent: Sulfate Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-1R



n = 18

Slope = 76.2 units per year.

Mann-Kendall statistic = 47 critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

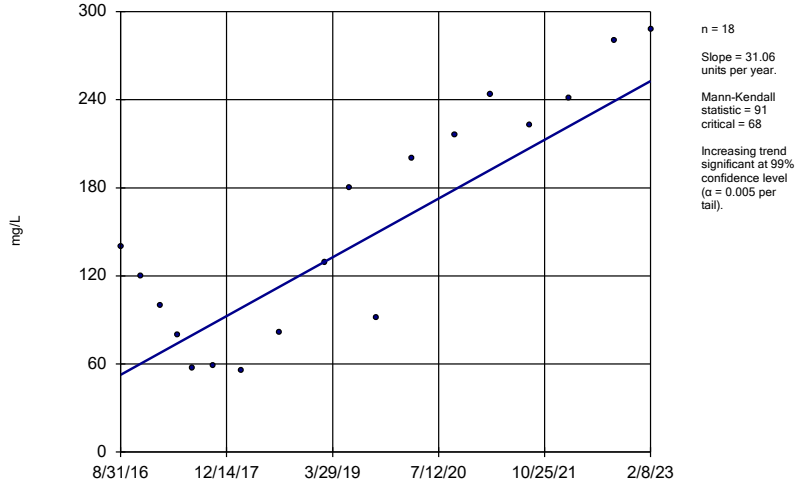
Constituent: Sulfate Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-2R



n = 18

Slope = 31.06 units per year.

Mann-Kendall statistic = 91 critical = 68

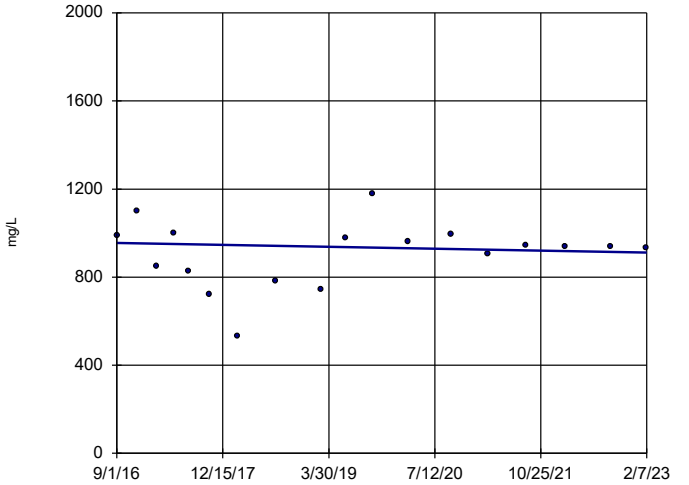
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

GWC-5R



n = 18

Slope = -6.777 units per year.

Mann-Kendall statistic = -7 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

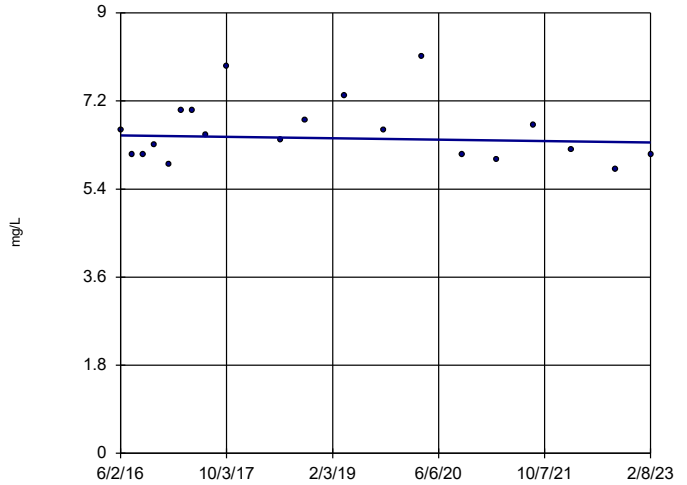
Constituent: Sulfate Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 20

Slope = -0.02207 units per year.

Mann-Kendall statistic = -14 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

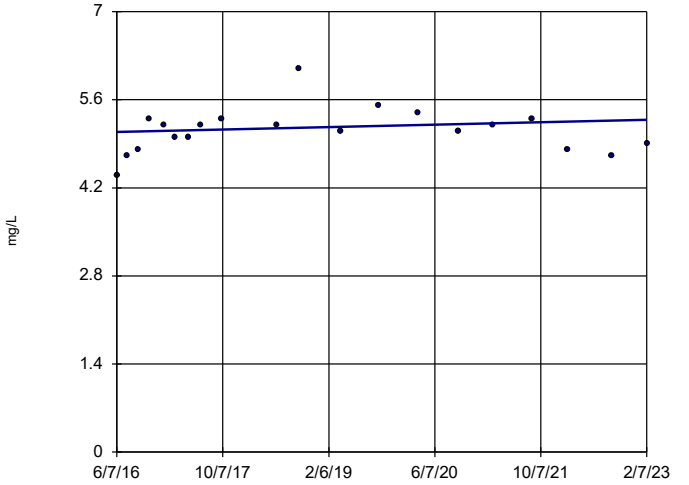
Constituent: Sulfate Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 20

Slope = 0.02875 units per year.

Mann-Kendall statistic = 23 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/2/2023 1:03 PM View: Trend Tests

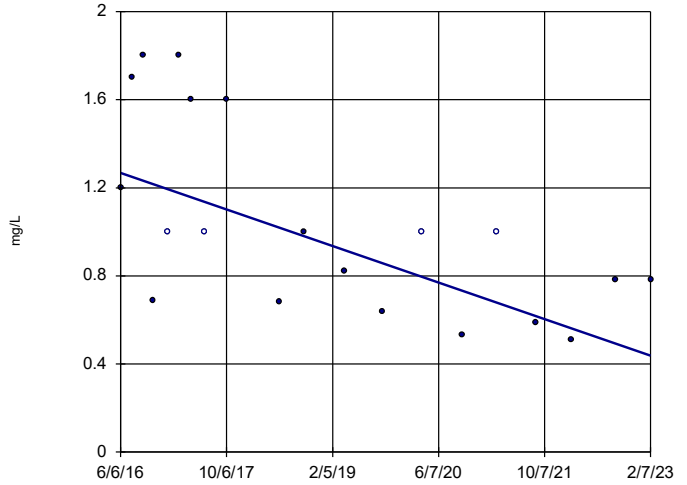
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 20

Slope = -0.1242 units per year.

Mann-Kendall statistic = -93 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

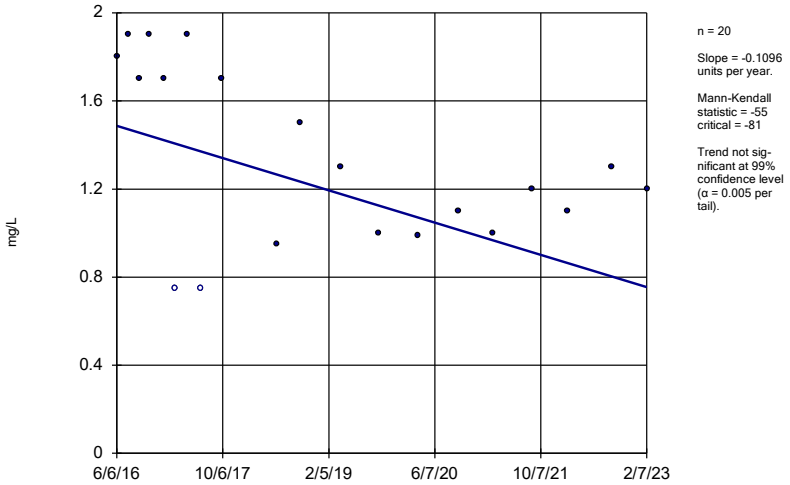
Constituent: Sulfate Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 20

Slope = -0.1096 units per year.

Mann-Kendall statistic = -55
critical = -81

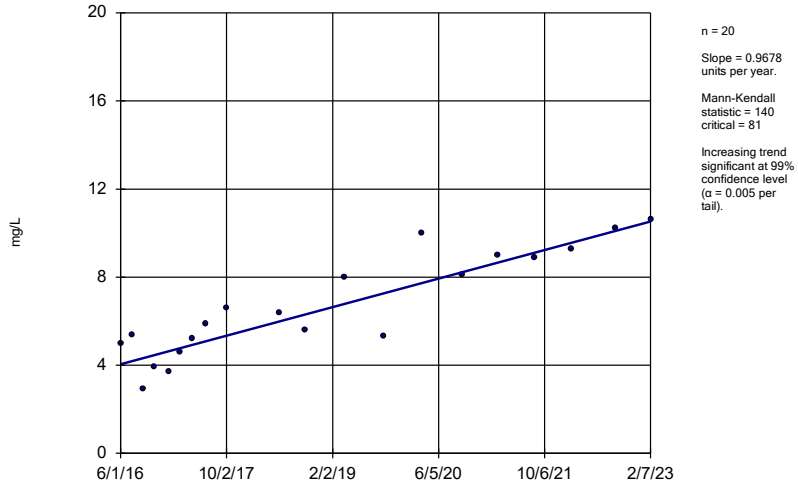
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/2/2023 1:03 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 20

Slope = 0.9678 units per year.

Mann-Kendall statistic = 140
critical = 81

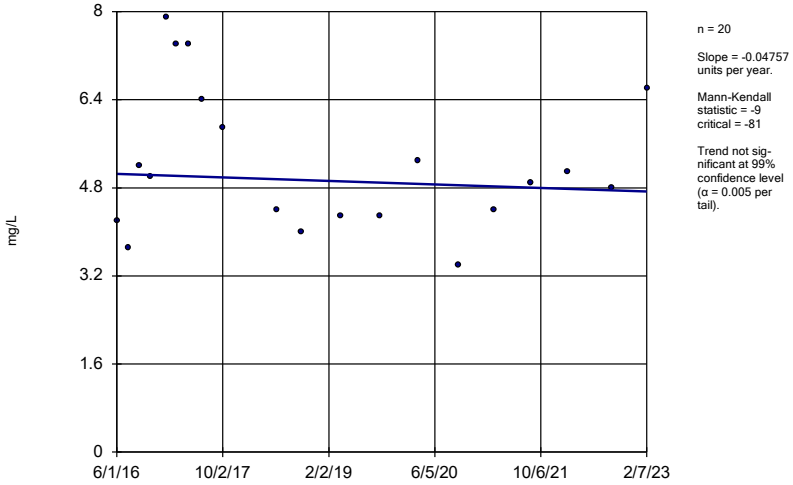
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/2/2023 1:03 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1I (bg)



n = 20

Slope = -0.04757 units per year.

Mann-Kendall statistic = -9
critical = -81

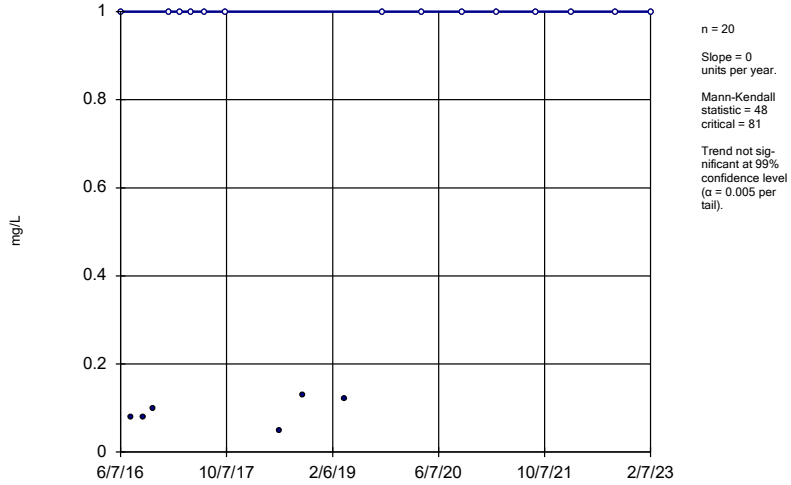
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/2/2023 1:03 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 48
critical = 81

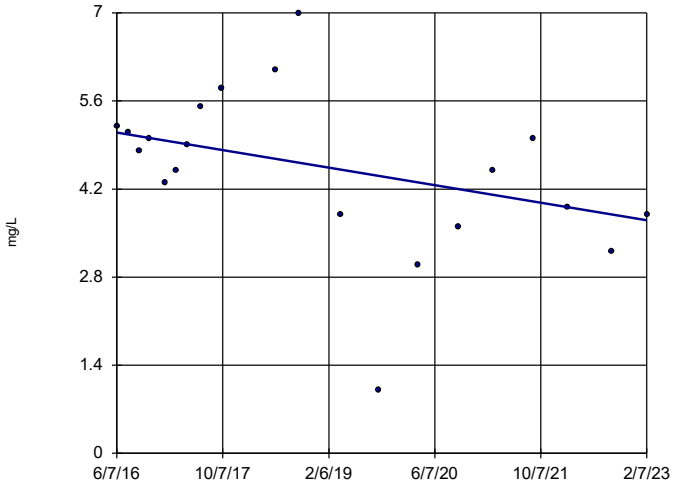
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/2/2023 1:03 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 20

Slope = -0.2092 units per year.

Mann-Kendall statistic = -55
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

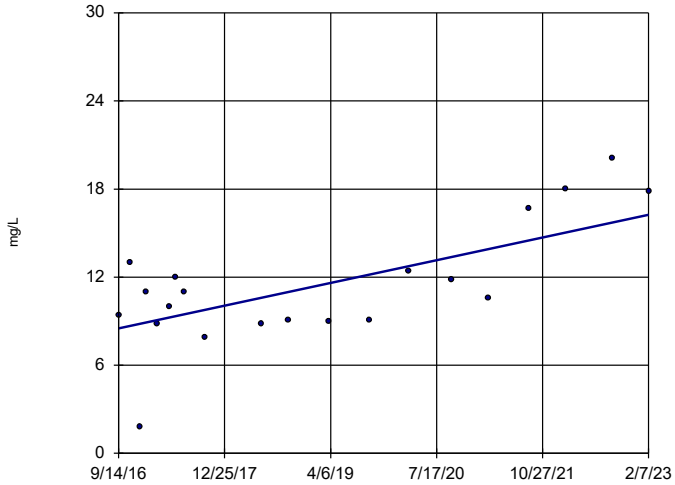
Constituent: Sulfate Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 20

Slope = 1.209 units per year.

Mann-Kendall statistic = 77
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

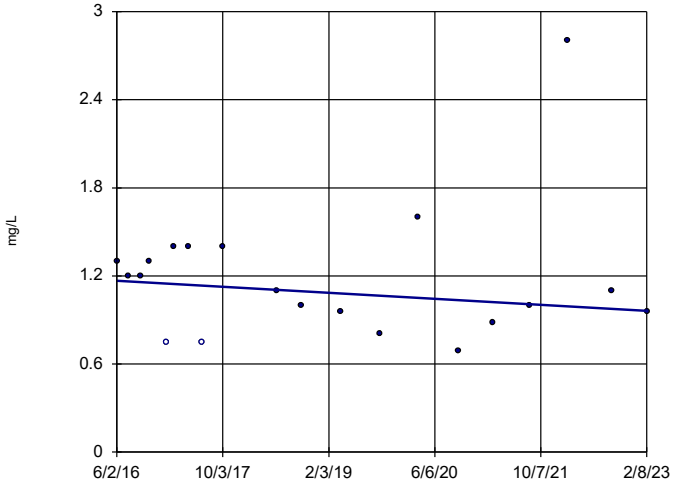
Constituent: Sulfate Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 20

Slope = -0.03067 units per year.

Mann-Kendall statistic = -23
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

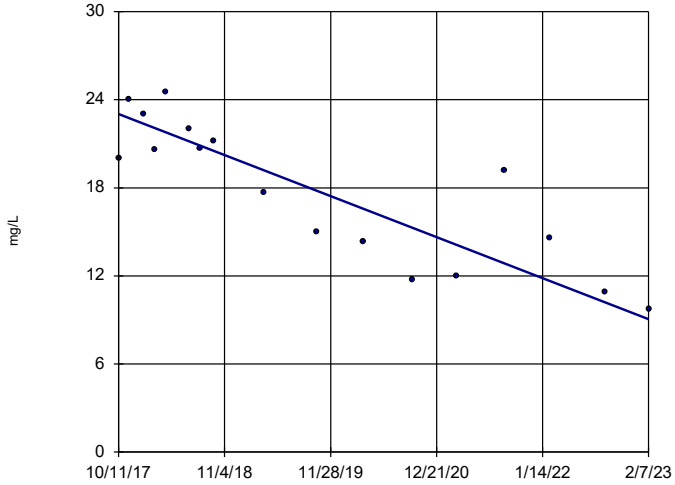
Constituent: Sulfate Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 17

Slope = -2.618 units per year.

Mann-Kendall statistic = -90
critical = -63

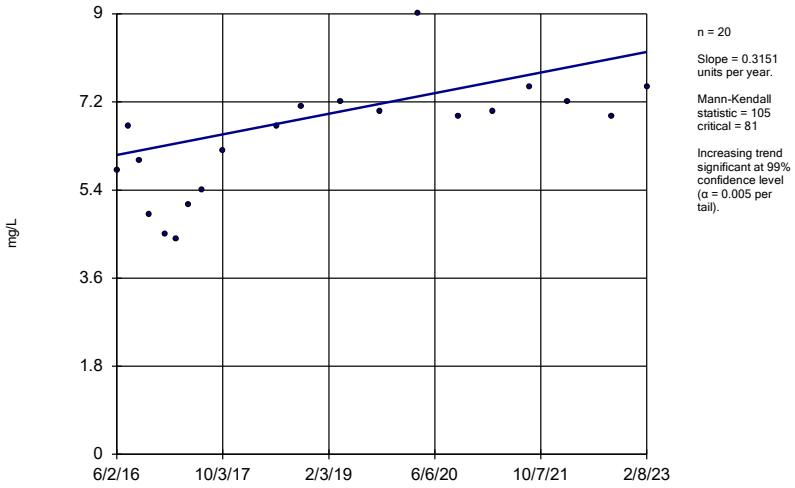
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-3D (bg)



n = 20

Slope = 0.3151 units per year.

Mann-Kendall statistic = 105
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

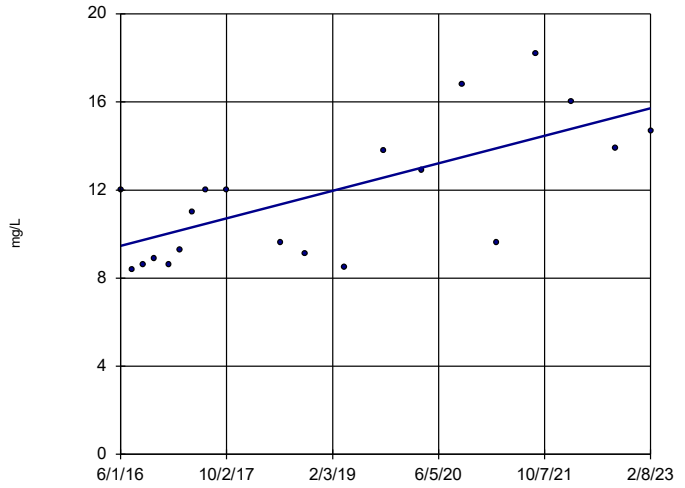
Constituent: Sulfate Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 20

Slope = 0.9326 units per year.

Mann-Kendall statistic = 99
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

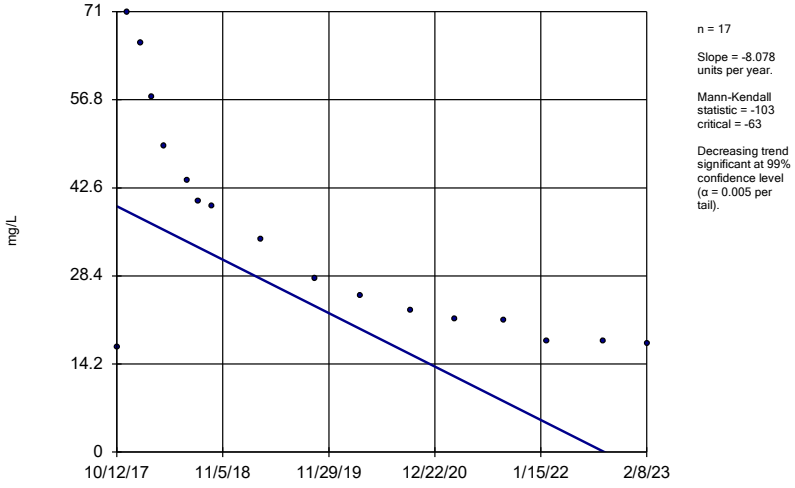
Constituent: Sulfate Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 17

Slope = -8.078 units per year.

Mann-Kendall statistic = -103
critical = -63

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

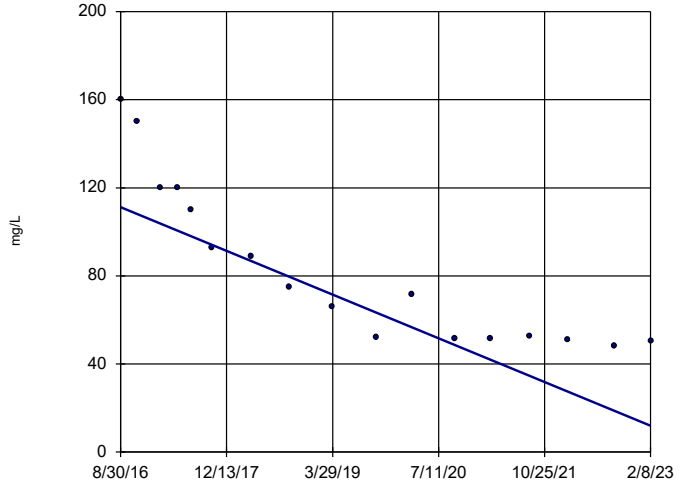
Constituent: Sulfate Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 17

Slope = -15.39 units per year.

Mann-Kendall statistic = -121
critical = -63

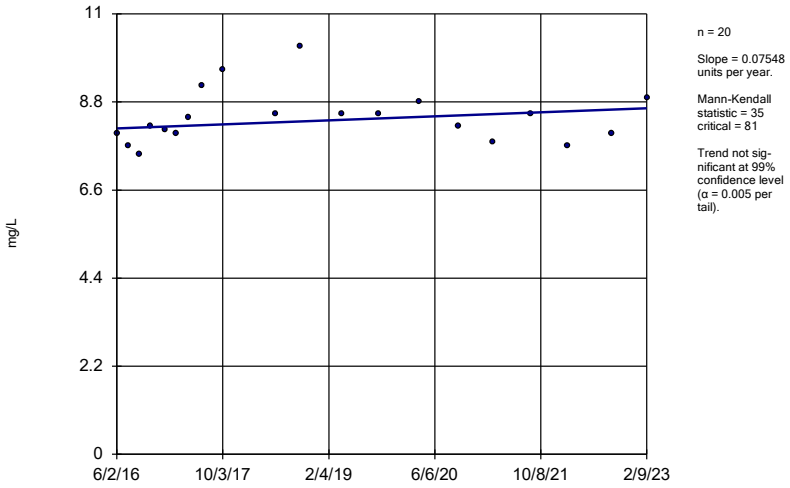
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-4I (bg)



n = 20

Slope = 0.07548 units per year.

Mann-Kendall statistic = 35
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

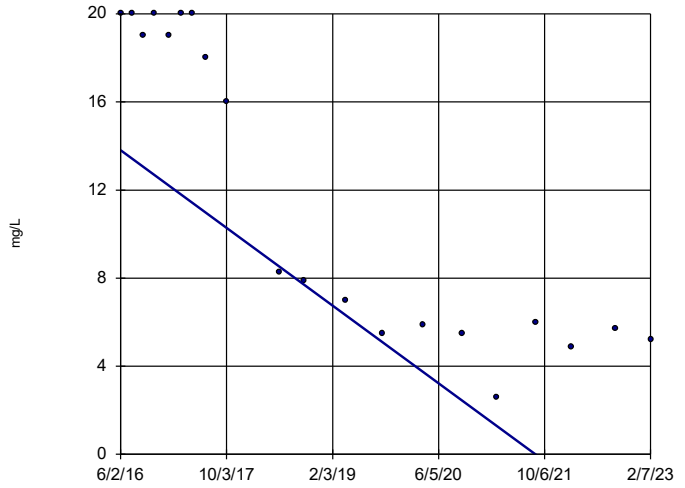
Constituent: Sulfate Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 20

Slope = -2.638 units per year.

Mann-Kendall statistic = -144
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

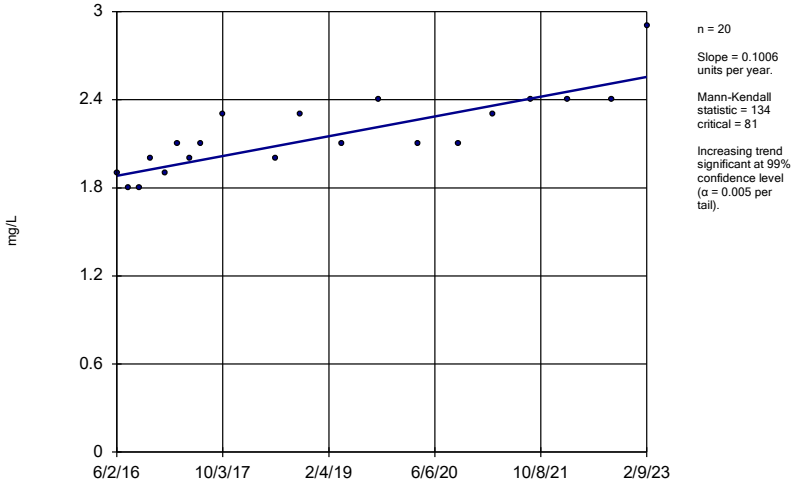
Constituent: Sulfate Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 20

Slope = 0.1006 units per year.

Mann-Kendall statistic = 134
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

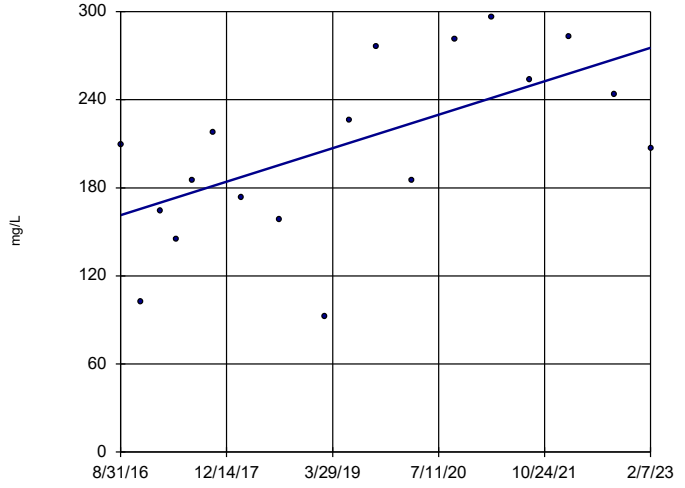
Constituent: Sulfate Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWA-2 (bg)



n = 18

Slope = 17.72 units per year.

Mann-Kendall statistic = 66
critical = 68

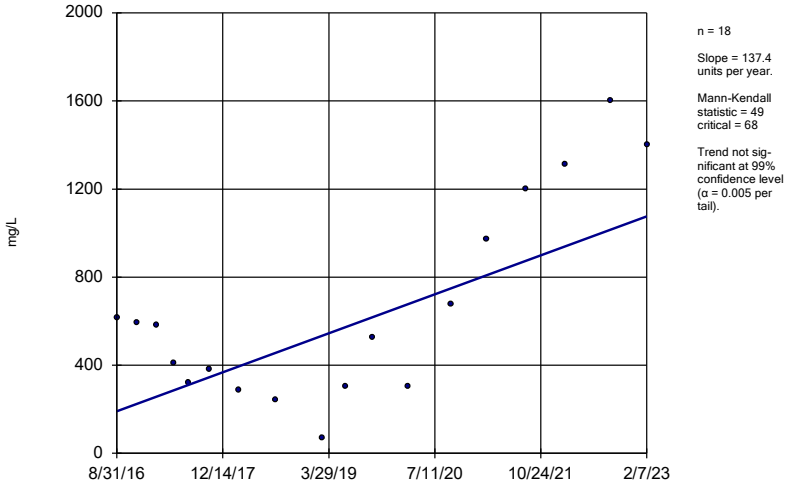
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

GWC-1R



n = 18

Slope = 137.4 units per year.

Mann-Kendall statistic = 49
critical = 68

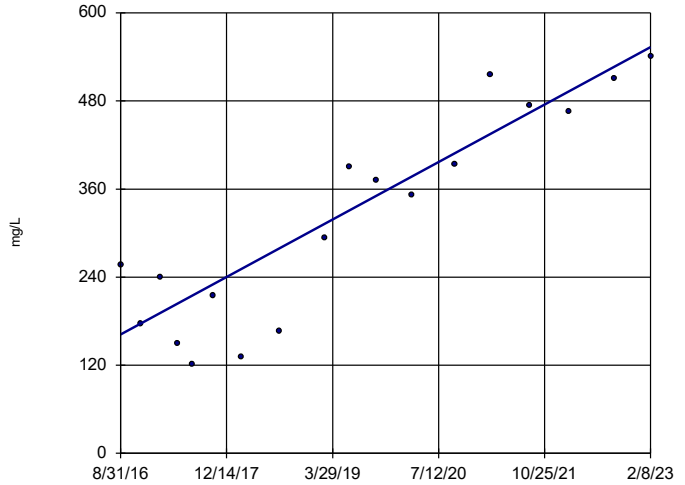
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/2/2023 1:03 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-2R



n = 18

Slope = 60.73 units per year.

Mann-Kendall statistic = 99
critical = 68

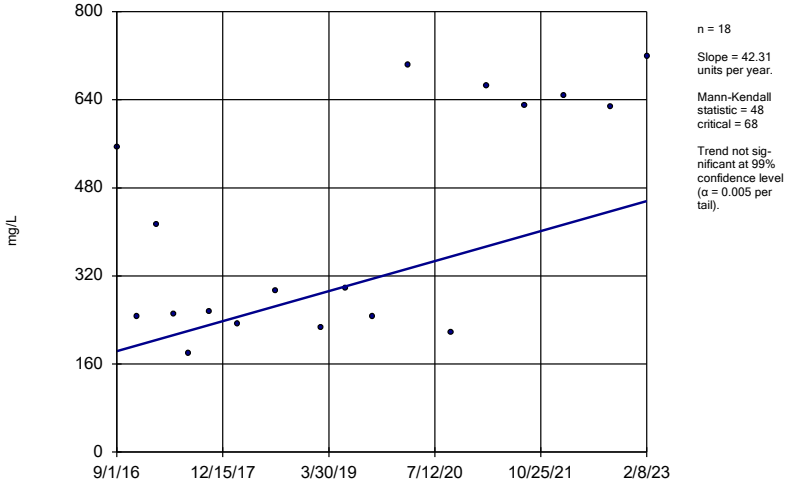
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/2/2023 1:03 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-4R



n = 18

Slope = 42.31 units per year.

Mann-Kendall statistic = 48
critical = 68

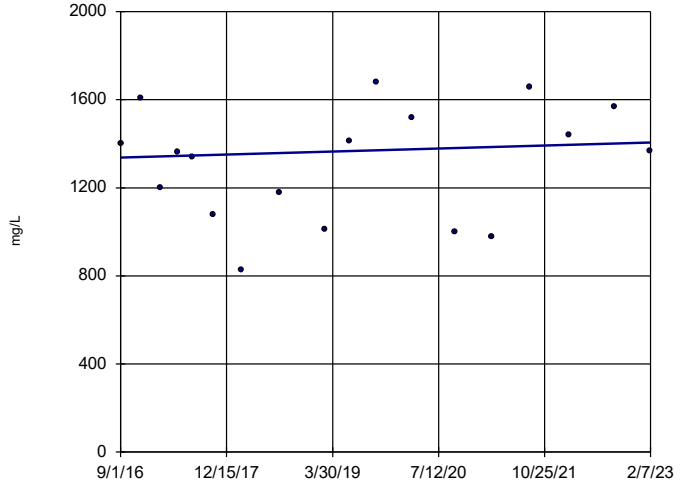
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/2/2023 1:03 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

GWC-5R



n = 18

Slope = 10.6 units per year.

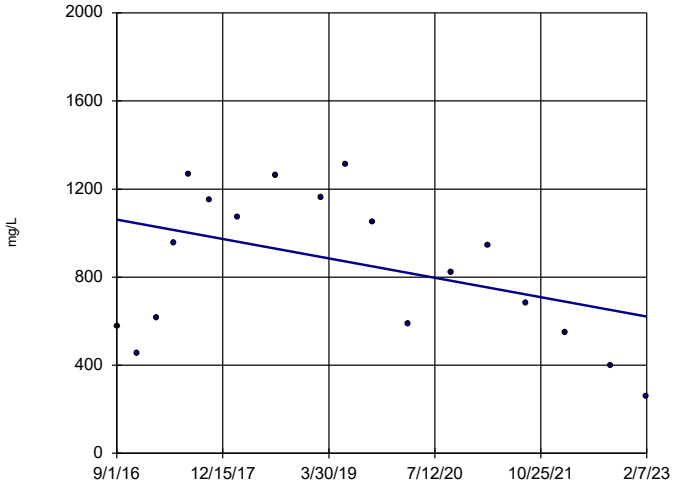
Mann-Kendall statistic = 9
critical = 68

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/2/2023 1:03 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

GWC-6R



n = 18

Slope = -68.4 units per year.

Mann-Kendall statistic = -37 critical = -68

Trend not significant at 99% confidence level (α = 0.005 per tail).

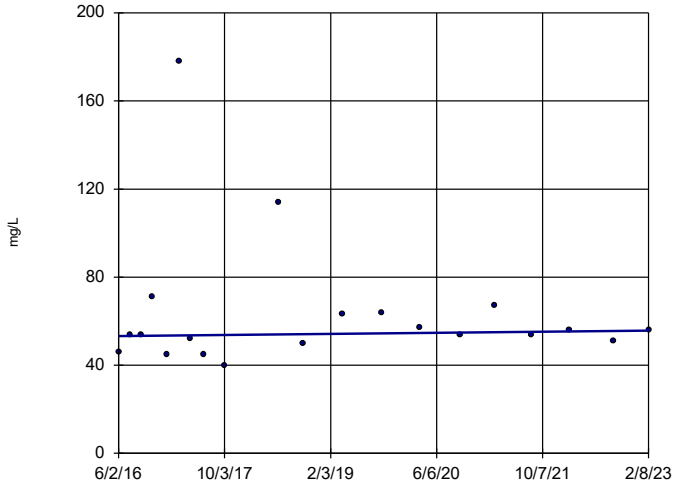
Constituent: TDS Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-14S (bg)



n = 20

Slope = 0.3652 units per year.

Mann-Kendall statistic = 16 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

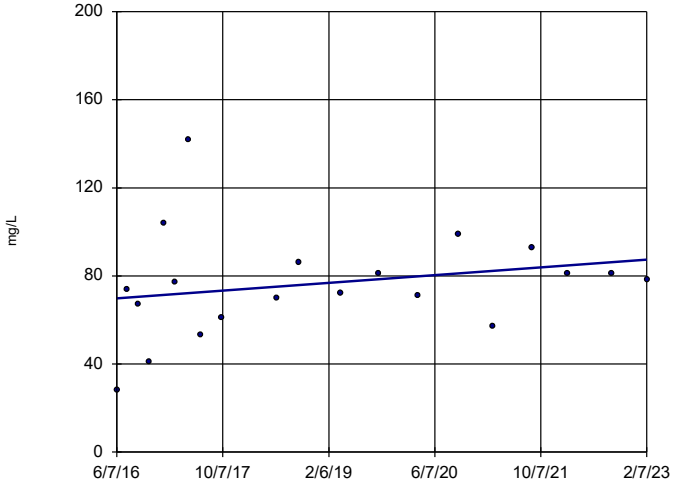
Constituent: TDS Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 20

Slope = 2.621 units per year.

Mann-Kendall statistic = 47 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

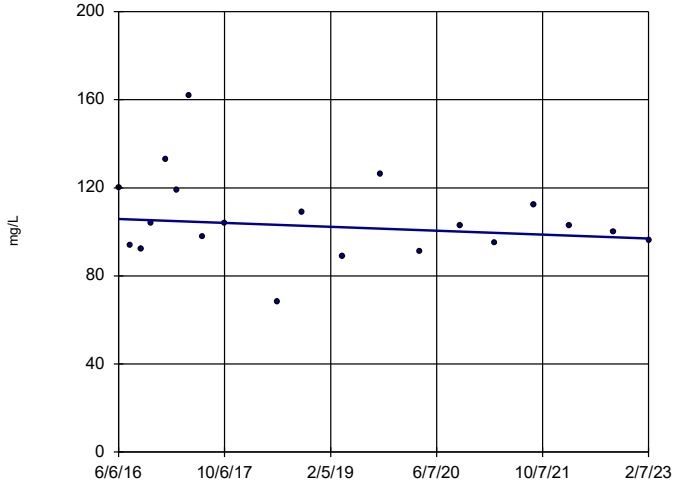
Constituent: TDS Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-18I (bg)



n = 20

Slope = -1.319 units per year.

Mann-Kendall statistic = -26 critical = -81

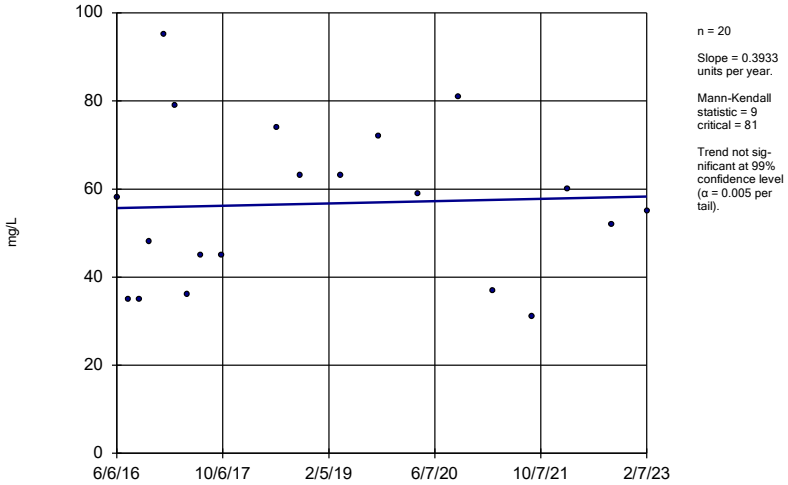
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-18S (bg)



n = 20

Slope = 0.3933 units per year.

Mann-Kendall statistic = 9
critical = 81

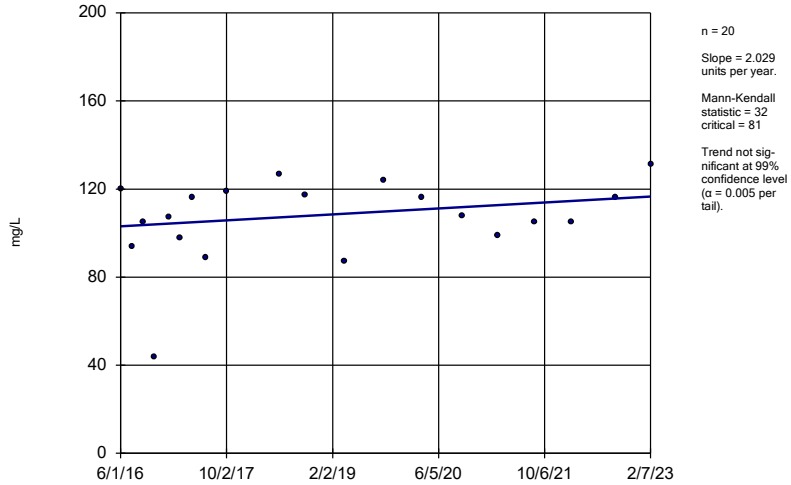
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/2/2023 1:03 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1D (bg)



n = 20

Slope = 2.029 units per year.

Mann-Kendall statistic = 32
critical = 81

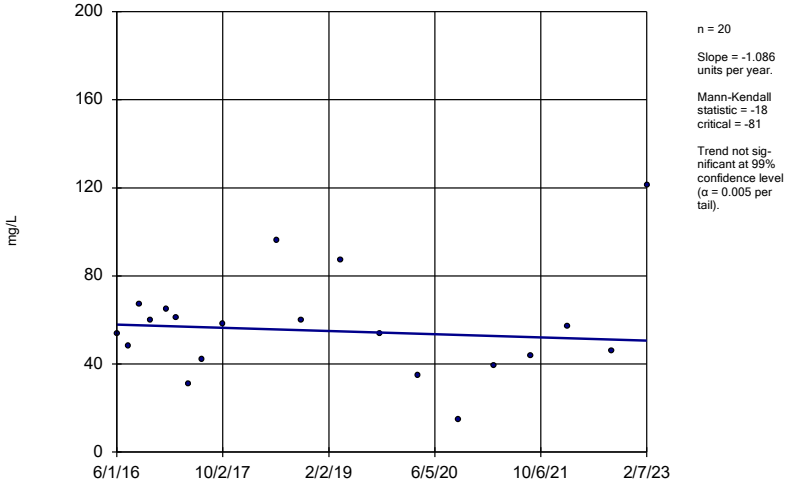
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/2/2023 1:03 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-1I (bg)



n = 20

Slope = -1.086 units per year.

Mann-Kendall statistic = -18
critical = -81

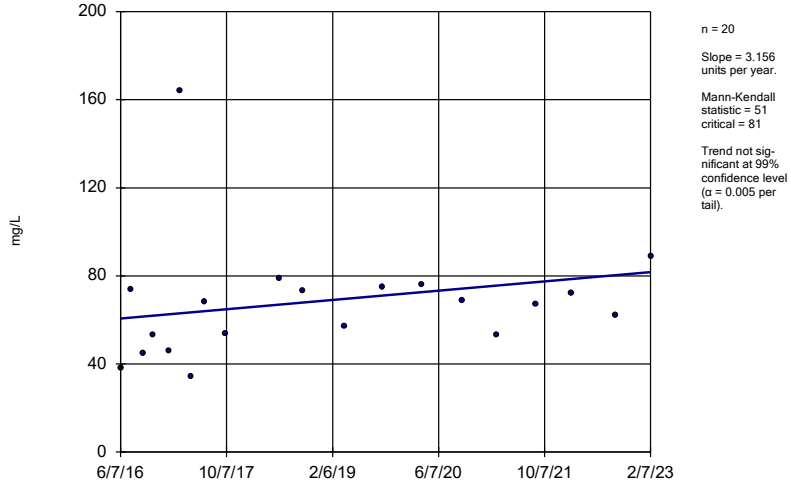
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/2/2023 1:03 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-20S (bg)



n = 20

Slope = 3.156 units per year.

Mann-Kendall statistic = 51
critical = 81

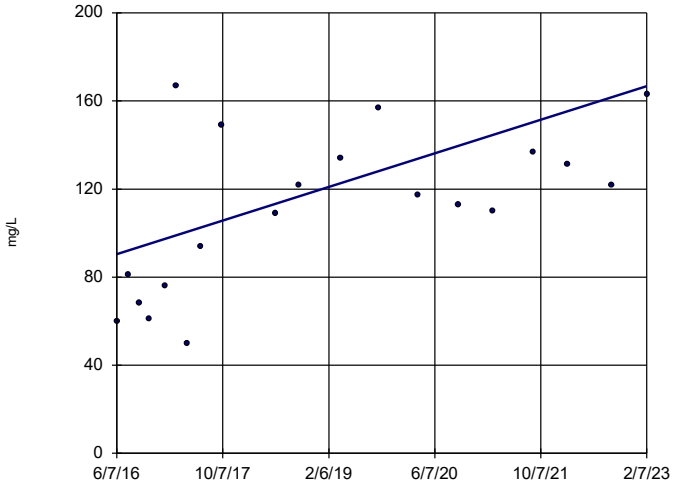
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/2/2023 1:03 PM View: Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-21I (bg)



n = 20

Slope = 11.42 units per year.

Mann-Kendall statistic = 85 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

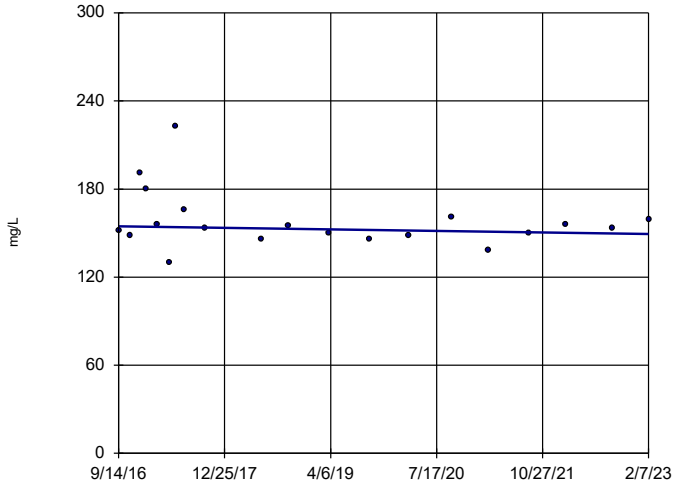
Constituent: TDS Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 20

Slope = -0.8152 units per year.

Mann-Kendall statistic = -19 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/2/2023 1:03 PM View: Trend Tests

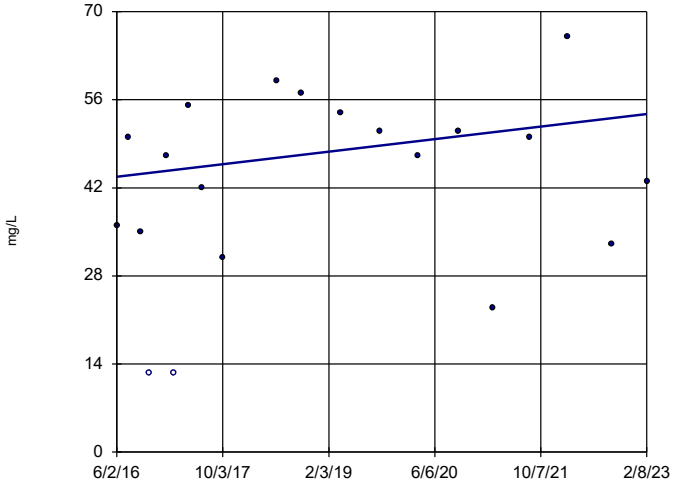
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 20

Slope = 1.488 units per year.

Mann-Kendall statistic = 24 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

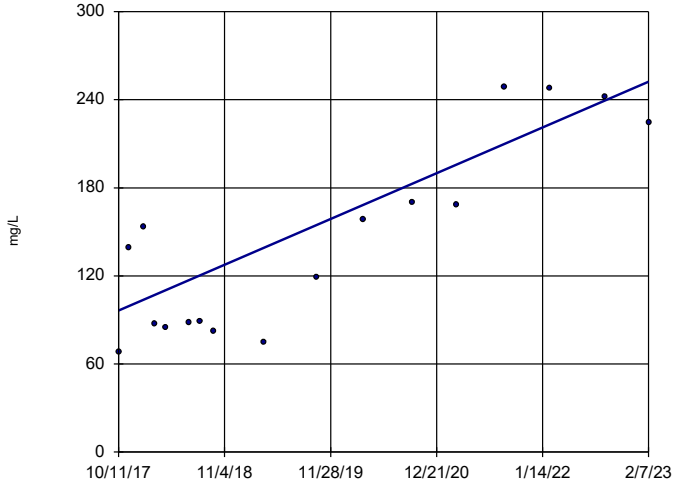
Constituent: TDS Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-39 (bg)



n = 17

Slope = 29.24 units per year.

Mann-Kendall statistic = 74 critical = 63

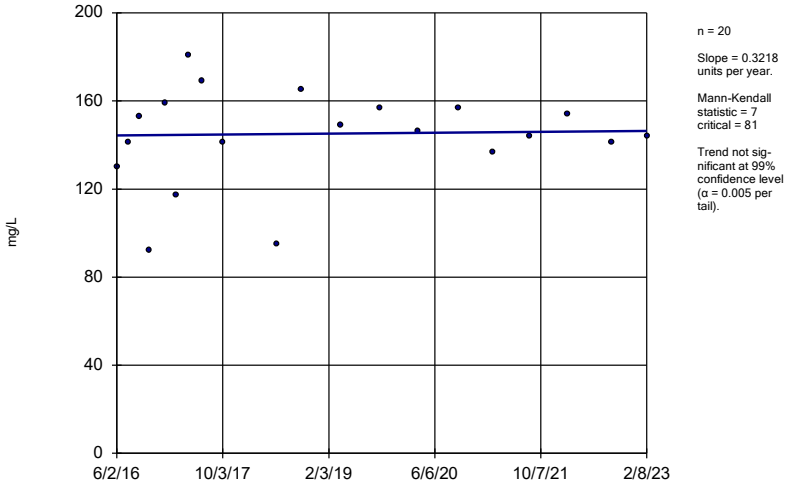
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-3D (bg)



n = 20

Slope = 0.3218 units per year.

Mann-Kendall statistic = 7 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

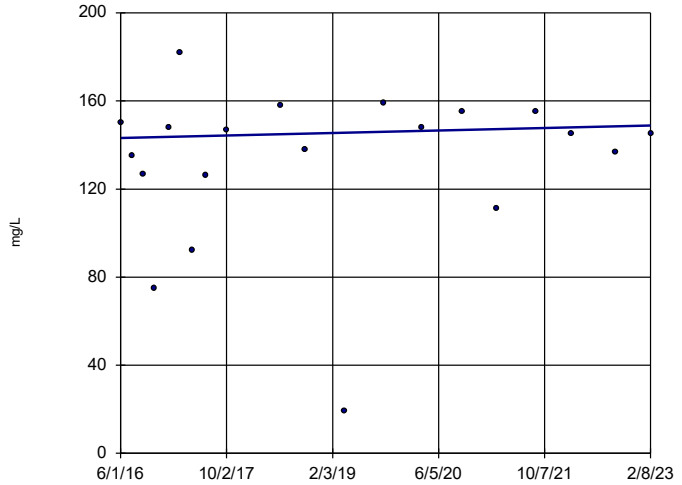
Constituent: TDS Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 20

Slope = 0.862 units per year.

Mann-Kendall statistic = 9 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

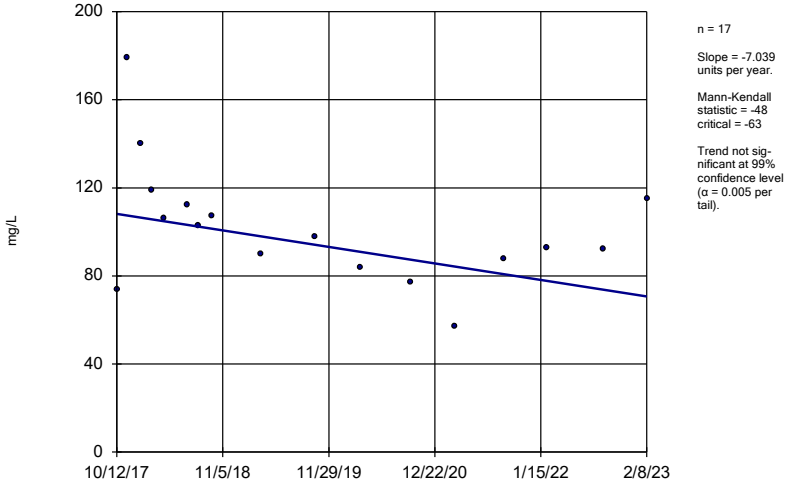
Constituent: TDS Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-40 (bg)



n = 17

Slope = -7.039 units per year.

Mann-Kendall statistic = -48 critical = -63

Trend not significant at 99% confidence level (α = 0.005 per tail).

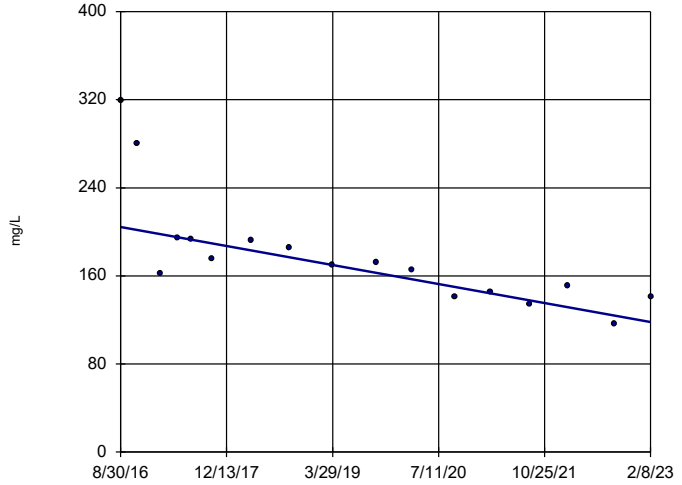
Constituent: TDS Analysis Run 5/2/2023 1:03 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 17

Slope = -13.38 units per year.

Mann-Kendall statistic = -101 critical = -63

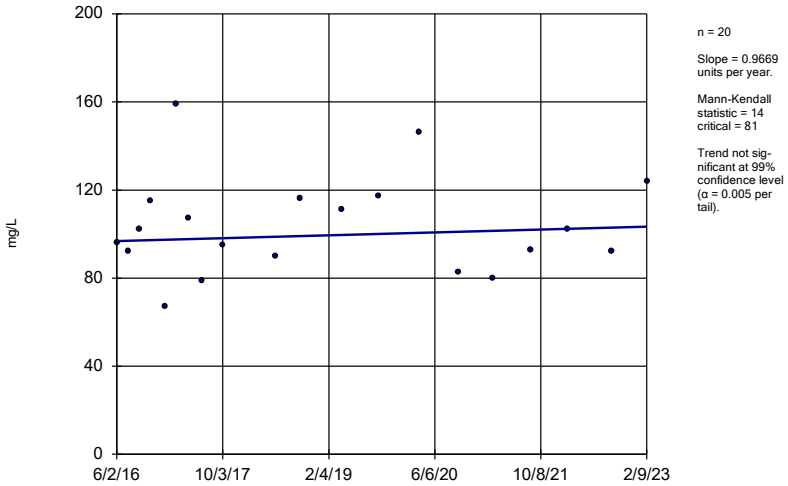
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/2/2023 1:04 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

YGWA-4I (bg)



n = 20

Slope = 0.9669 units per year.

Mann-Kendall statistic = 14 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

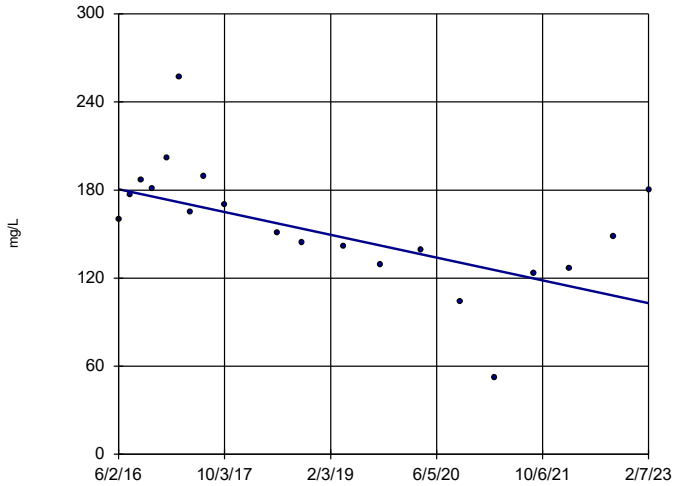
Constituent: TDS Analysis Run 5/2/2023 1:04 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5D (bg)



n = 20

Slope = -11.59 units per year.

Mann-Kendall statistic = -90 critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

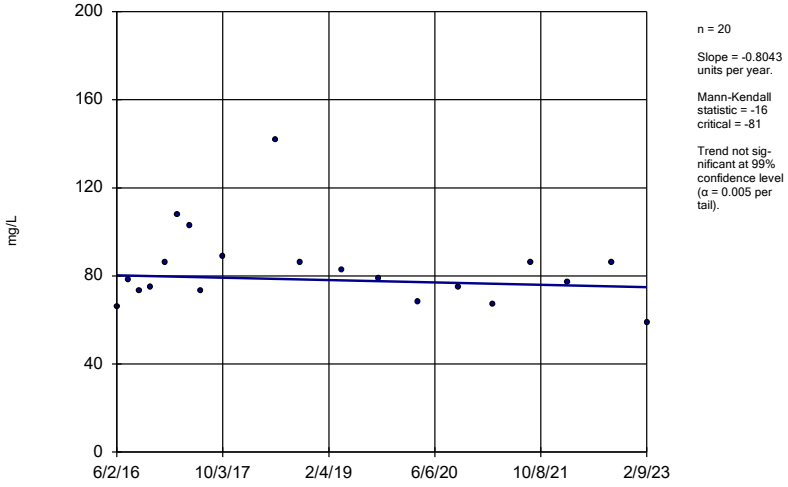
Constituent: TDS Analysis Run 5/2/2023 1:04 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-5I (bg)



n = 20

Slope = -0.8043 units per year.

Mann-Kendall statistic = -16 critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: TDS Analysis Run 5/2/2023 1:04 PM View: Trend Tests

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

FIGURE H.

Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/2/2023, 11:00 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0047	n/a	n/a	n/a	n/a 391	n/a	n/a	87.98	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 439	n/a	n/a	74.72	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.21	n/a	n/a	n/a	n/a 439	n/a	n/a	2.506	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0011	n/a	n/a	n/a	n/a 423	n/a	n/a	79.43	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.00063	n/a	n/a	n/a	n/a 423	n/a	n/a	94.56	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0093	n/a	n/a	n/a	n/a 391	n/a	n/a	80.05	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a 433	n/a	n/a	69.05	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	6.92	n/a	n/a	n/a	n/a 418	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	n/a	0.68	n/a	n/a	n/a	n/a 438	n/a	n/a	64.16	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	n/a 393	n/a	n/a	86.01	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a 418	n/a	n/a	25.84	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	n/a	0.00064	n/a	n/a	n/a	n/a 347	n/a	n/a	91.93	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	n/a 382	n/a	n/a	60.99	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 421	n/a	n/a	92.64	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a 357	n/a	n/a	97.2	n/a	n/a	NaN	NP Inter(NDs)

FIGURE I.

YATES LANDFILL GYPSUM STACK GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0047	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.21	2
Beryllium, Total (mg/L)	0.004		0.0011	0.004
Cadmium, Total (mg/L)	0.005		0.00063	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)	n/a	0.015	0.0013	0.015
Lithium, Total (mg/L)	n/a	0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.00064	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.014	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Grey cell indicates Background Limit is higher than MCL*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

FIGURE J.

Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/2/2023, 12:43 PM

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	0.003	0.006	No	35	0.002963	0.0002197	97.14	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-4R	0.003	0.0017	0.006	No	35	0.00271	0.0007485	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-5R	0.003	0.00054	0.006	No	30	0.002828	0.000654	93.33	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-1R	0.005	0.0047	0.01	No	30	0.004085	0.001613	70	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-2R	0.005	0.005	0.01	No	35	0.004767	0.0009606	94.29	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-3R	0.005	0.0028	0.01	No	30	0.004327	0.001399	80	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-4R	0.005	0.0013	0.01	No	35	0.004636	0.001212	91.43	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-5R	0.005	0.0012	0.01	No	30	0.003189	0.001864	43.33	None	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-6R	0.005	0.0023	0.01	No	36	0.003997	0.00178	75	None	No	0.01	NP (NDs)
Barium (mg/L)	GWC-1R	0.05834	0.04169	2	No	30	0.05002	0.01852	0	None	No	0.01	Param.
Barium (mg/L)	GWC-2R	0.0642	0.04693	2	No	35	0.05778	0.02393	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	GWC-3R	0.03312	0.01828	2	No	30	0.02877	0.02327	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	GWC-4R	0.03767	0.02515	2	No	35	0.03289	0.01663	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-5R	0.036	0.014	2	No	30	0.02739	0.01737	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-6R	0.05439	0.03757	2	No	36	0.04598	0.02069	0	None	No	0.01	Param.
Beryllium (mg/L)	GWC-1R	0.003	0.00013	0.004	No	30	0.001403	0.001423	43.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-2R	0.003	0.00025	0.004	No	35	0.002035	0.001357	65.71	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-3R	0.0011	0.00039	0.004	No	30	0.001118	0.001084	23.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-4R	0.003	0.00013	0.004	No	35	0.0025	0.001114	82.86	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-5R	0.003	0.0005	0.004	No	30	0.001913	0.00125	23.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-1R	0.0025	0.00026	0.005	No	30	0.001877	0.001051	73.33	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-2R	0.0005	0.00016	0.005	No	35	0.0004271	0.0001483	80	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-3R	0.0005	0.00022	0.005	No	30	0.0003833	0.0001534	60	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-4R	0.0005	0.0005	0.005	No	35	0.0004774	0.00009303	94.29	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-5R	0.0009085	0.0006444	0.005	No	30	0.0008493	0.0002855	26.67	Kaplan-Meier	x^2	0.01	Param.
Chromium (mg/L)	GWC-1R	0.01	0.0011	0.1	No	30	0.00479	0.004344	40	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-2R	0.005	0.0017	0.1	No	35	0.004402	0.001497	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-3R	0.0023	0.0011	0.1	No	30	0.002424	0.001749	30	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-4R	0.005	0.0013	0.1	No	35	0.004331	0.001603	80	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-5R	0.0028	0.0019	0.1	No	30	0.003477	0.002988	16.67	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-6R	0.0028	0.0014	0.1	No	36	0.004144	0.003957	30.56	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-1R	0.005	0.00081	0.035	No	30	0.002852	0.003001	33.33	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-2R	0.02461	0.01455	0.035	No	35	0.01958	0.0122	2.857	None	No	0.01	Param.
Cobalt (mg/L)	GWC-3R	0.0074	0.0041	0.035	No	30	0.005258	0.002268	66.67	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-4R	0.002972	0.001492	0.035	No	35	0.003067	0.002045	25.71	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	GWC-5R	0.005	0.00085	0.035	No	30	0.003809	0.002011	73.33	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-6R	0.005	0.005	0.035	No	36	0.0049	0.0006	97.22	Kaplan-Meier	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GWC-1R	0.9703	0.5705	6.92	No	17	0.7888	0.3352	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2R	1.312	0.6179	6.92	No	17	1.01	0.5811	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-3R	0.9386	0.2495	6.92	No	17	0.671	0.6611	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-4R	0.5734	0.2436	6.92	No	17	0.4085	0.2631	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-5R	0.9404	0.3763	6.92	No	17	0.6583	0.4502	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-6R	1.022	0.4681	6.92	No	17	0.7826	0.522	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GWC-1R	0.1	0.06	4	No	20	0.0905	0.01986	80	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-2R	0.58	0.08	4	No	20	0.114	0.1119	75	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-3R	0.1362	0.05764	4	No	20	0.1302	0.1151	35	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	GWC-4R	0.11	0.08	4	No	20	0.094	0.02393	70	Kaplan-Meier	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-5R	0.11	0.056	4	No	20	0.1085	0.09006	45	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-6R	0.1	0.07	4	No	20	0.0977	0.04828	70	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-1R	0.001	0.000067	0.015	No	30	0.0009373	0.0002386	93.33	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-2R	0.001	0.0001	0.015	No	35	0.000815	0.0003755	80	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-3R	0.001	0.00015	0.015	No	30	0.0007875	0.000392	76.67	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-4R	0.001	0.001	0.015	No	35	0.0009726	0.0001621	97.14	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-5R	0.001	0.00019	0.015	No	30	0.0008167	0.0003735	80	None	No	0.01	NP (NDs)

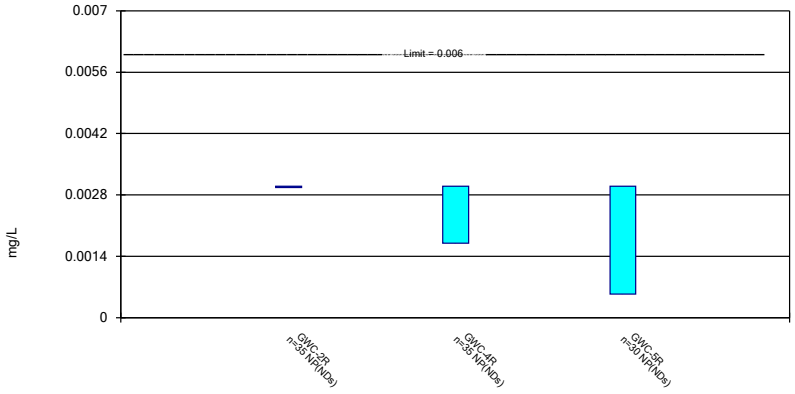
Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/2/2023, 12:43 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	GWC-1R	0.0024	0.0013	0.04	No	18	0.009691	0.01855	16.67	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-2R	0.0053	0.0036	0.04	No	18	0.01174	0.01761	16.67	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-3R	0.03	0.0012	0.04	No	18	0.02356	0.0124	77.78	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-4R	0.03	0.0011	0.04	No	18	0.02036	0.01403	66.67	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-5R	0.05	0.0014	0.04	No	18	0.02305	0.0248	44.44	None	No	0.01	NP (normality)
Lithium (mg/L)	GWC-6R	0.0083	0.0017	0.04	No	18	0.05763	0.1058	22.22	None	No	0.01	NP (normality)
Mercury (mg/L)	GWC-1R	0.0002	0.0002	0.002	No	30	0.0001953	0.00002574	96.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-2R	0.0002	0.0002	0.002	No	35	0.0001963	0.0000218	97.14	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-3R	0.0002	0.000064	0.002	No	30	0.0001969	0.00006044	90	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-4R	0.0002	0.00014	0.002	No	35	0.0001925	0.00002733	88.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-5R	0.0002	0.0002	0.002	No	30	0.0001953	0.00002556	96.67	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-6R	0.0002	0.0002	0.002	No	36	0.0001911	0.00003796	94.44	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-1R	0.011	0.0066	0.05	No	30	0.009807	0.006641	43.33	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-2R	0.01	0.0032	0.05	No	35	0.006329	0.003505	45.71	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-3R	0.01	0.0045	0.05	No	30	0.007433	0.003802	36.67	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-4R	0.01	0.0041	0.05	No	35	0.007123	0.003798	22.86	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-5R	0.02499	0.01735	0.05	No	30	0.02117	0.008496	3.333	None	No	0.01	Param.
Selenium (mg/L)	GWC-6R	0.005	0.0037	0.05	No	36	0.004158	0.001242	55.56	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-2R	0.001	0.001	0.002	No	33	0.0009718	0.0001619	96.97	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-5R	0.001	0.000053	0.002	No	29	0.0009673	0.0001759	96.55	None	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

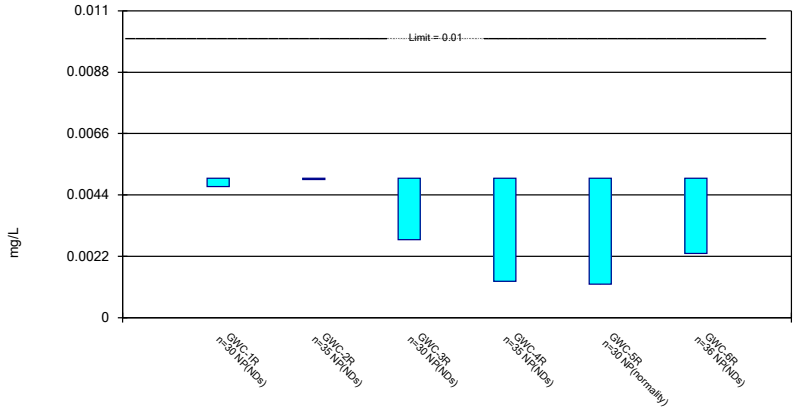
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 5/2/2023 12:40 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

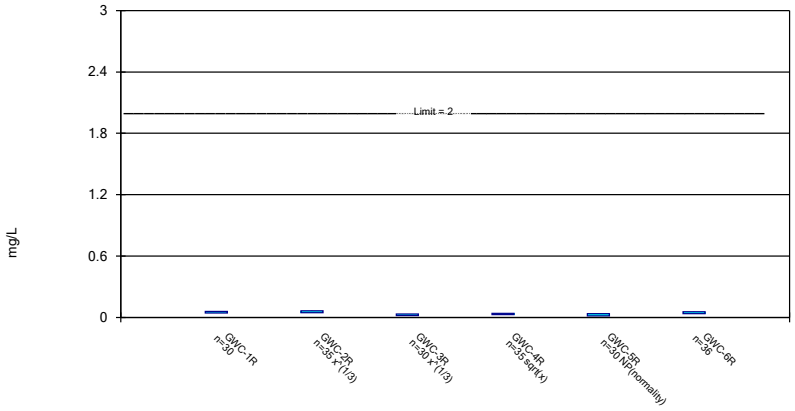
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Arsenic Analysis Run 5/2/2023 12:40 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

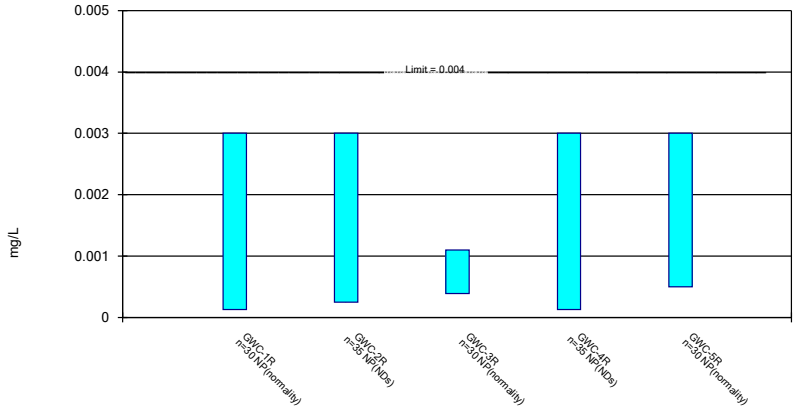
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 5/2/2023 12:40 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

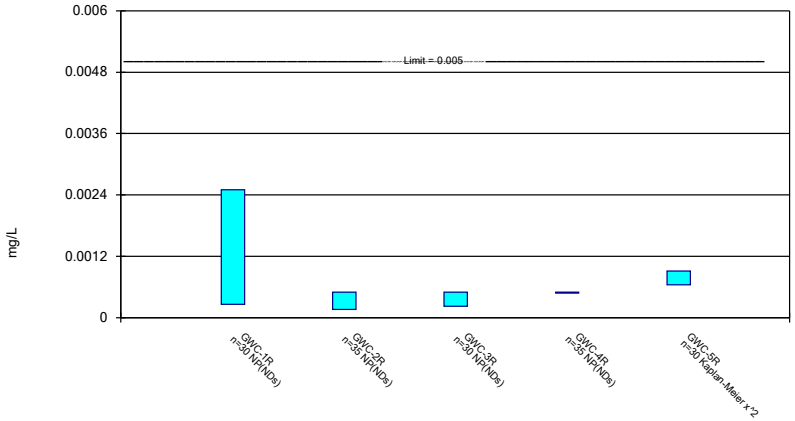
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 5/2/2023 12:40 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

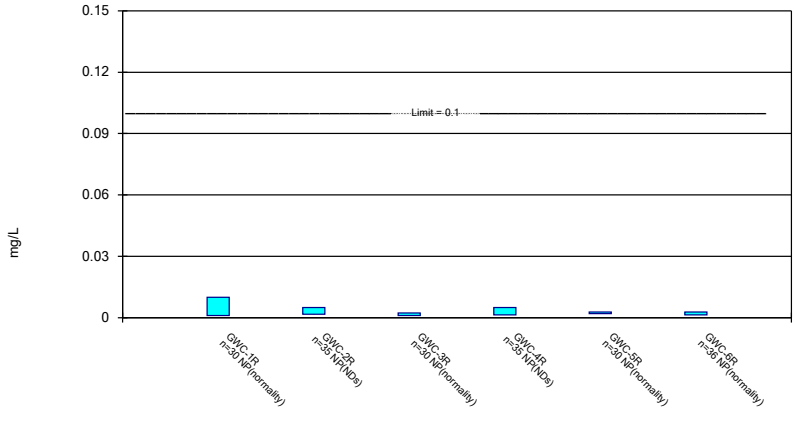
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 5/2/2023 12:40 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

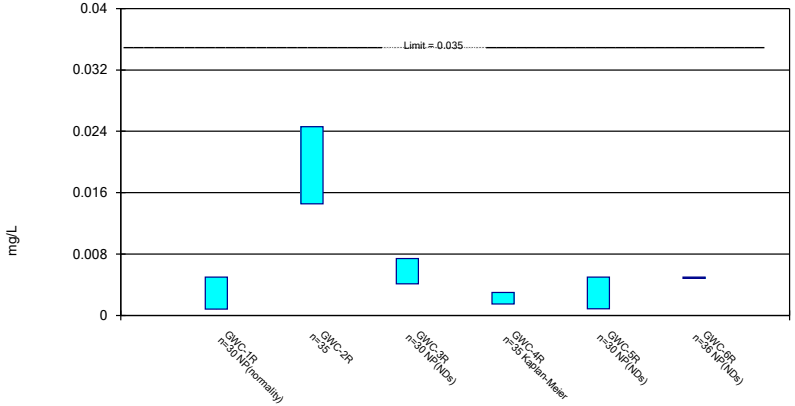
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 5/2/2023 12:40 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

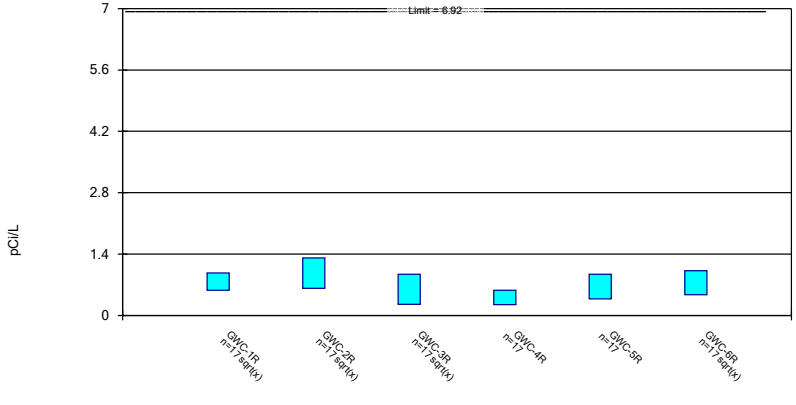
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/2/2023 12:40 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric Confidence Interval

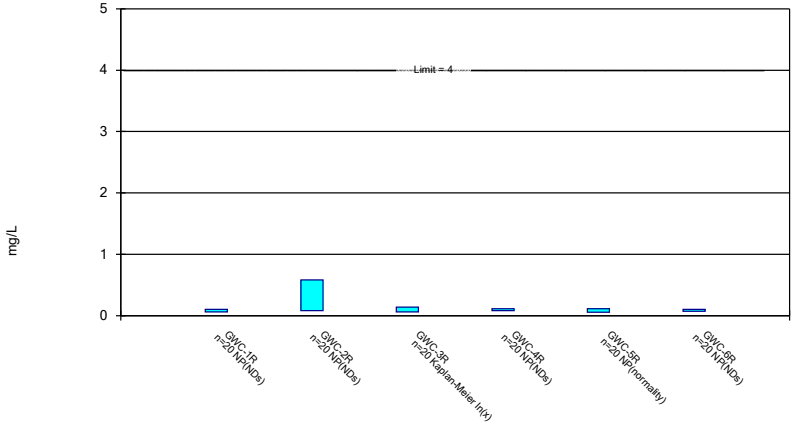
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/2/2023 12:40 PM View: Appendix IV
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.

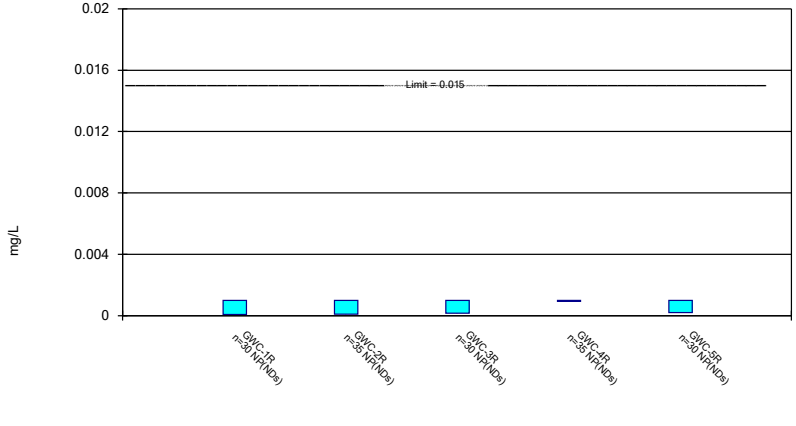


Constituent: Fluoride Analysis Run 5/2/2023 12:40 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

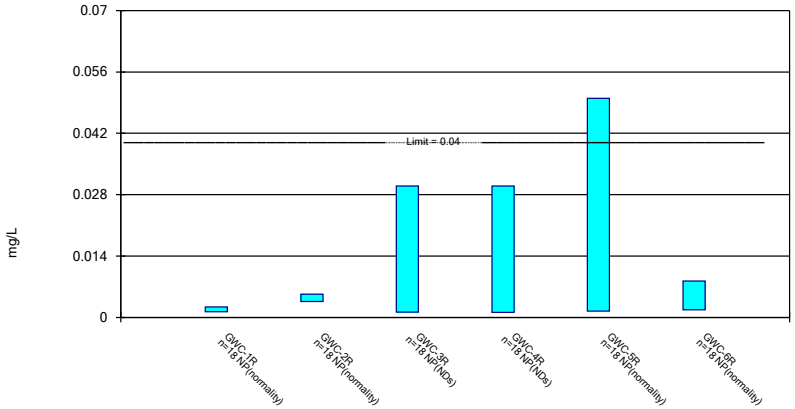


Constituent: Lead Analysis Run 5/2/2023 12:40 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

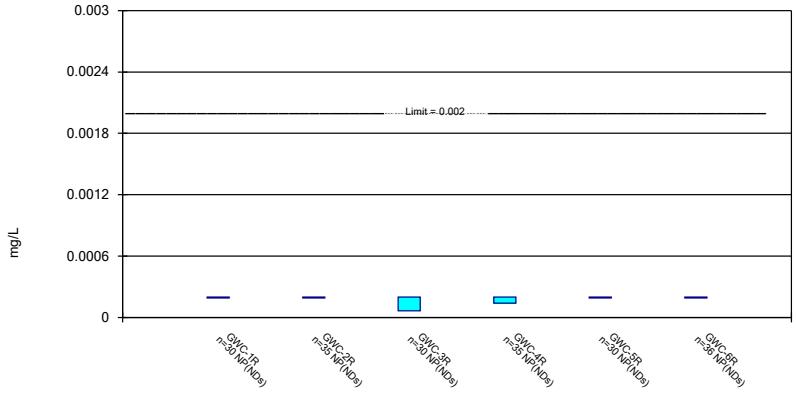


Constituent: Lithium Analysis Run 5/2/2023 12:40 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

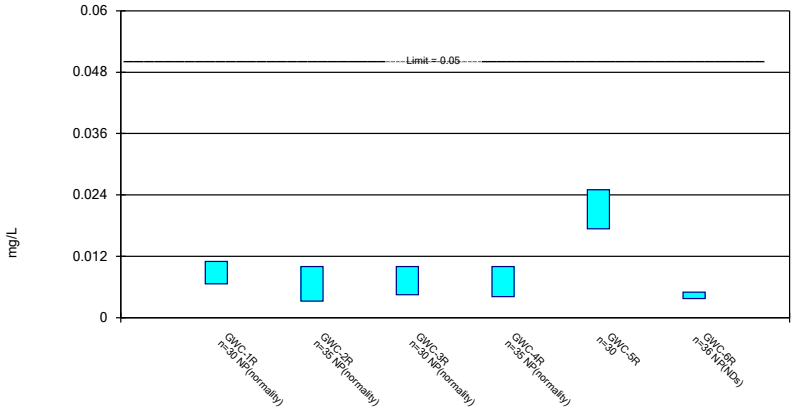


Constituent: Mercury Analysis Run 5/2/2023 12:40 PM View: Appendix IV

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.



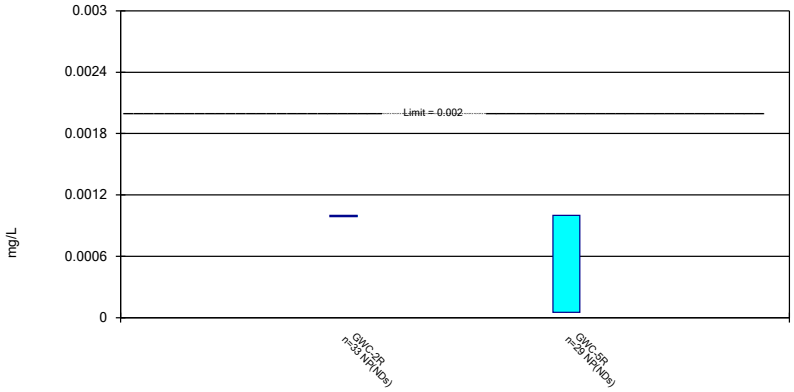
Constituent: Selenium Analysis Run 5/2/2023 12:40 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.37 Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 5/2/2023 12:40 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/2/2023 12:43 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-4R	GWC-5R
11/22/2010	<0.003	<0.003	
1/4/2011	<0.003	<0.003	
2/17/2011	<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
3/4/2012		<0.003	
3/5/2012			<0.003
3/6/2012	<0.003		
9/5/2012			<0.003
9/10/2012		<0.003	
9/11/2012	<0.003		
2/5/2013			<0.003
2/6/2013	<0.003	<0.003	
8/13/2013	<0.003		
8/14/2013		<0.003	<0.003
2/4/2014	<0.003	<0.003	
2/5/2014			<0.003
8/4/2014		<0.003	<0.003
8/5/2014	<0.003		
2/2/2015	<0.003	<0.003	
2/3/2015			<0.003
8/3/2015		<0.003 (D)	<0.003 (D)
8/4/2015	<0.003		
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

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/2/2023 12:43 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-4R	GWC-5R
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
2/8/2022		0.0017 (J)	
2/9/2022	<0.003		<0.003
8/30/2022		0.00094 (J)	<0.003
8/31/2022	<0.003		
2/7/2023			<0.003
2/8/2023	<0.003	<0.003	
Mean	0.002963	0.00271	0.002828
Std. Dev.	0.0002197	0.0007485	0.000654
Upper Lim.	0.003	0.003	0.003
Lower Lim.	0.003	0.0017	0.00054

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/2/2023 12:43 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	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
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
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
3/4/2012				<0.005		
3/5/2012	<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		
9/11/2012		<0.005				
2/5/2013	<0.005				<0.005	<0.005
2/6/2013		<0.005	<0.005	<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	
8/4/2014			<0.005	<0.005	<0.005	
8/5/2014	<0.005	<0.005				<0.005
2/2/2015	<0.005	<0.005		<0.005		
2/3/2015			<0.005		<0.005	<0.005
8/3/2015			<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
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)	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/2/2023 12:43 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
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
2/8/2022	0.0026 (J)		0.0015 (J)	0.0013 (J)		<0.005
2/9/2022		<0.005			0.0034 (J)	
8/30/2022	0.0035 (J)		<0.005	<0.005	0.0035 (J)	<0.005
8/31/2022		<0.005				
2/7/2023	0.0047 (J)				0.0054	<0.005
2/8/2023		<0.005	<0.005	<0.005		
Mean	0.004085	0.004767	0.004327	0.004636	0.003189	0.003997
Std. Dev.	0.001613	0.0009606	0.001399	0.001212	0.001864	0.00178
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0047	0.005	0.0028	0.0013	0.0012	0.0023

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/2/2023 12:43 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	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
11/22/2010		0.12		0.03		
1/4/2011		0.1		0.065		
2/17/2011		0.1		0.061		
3/10/2011						0.017
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	0.086					0.019
3/4/2012				0.046		
3/5/2012	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				0.084		
9/11/2012		0.045				
2/5/2013	0.03				0.068	0.056
2/6/2013		0.05	0.0094	0.042		
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			0.066		0.044	
8/4/2014			0.043	0.027	0.058	
8/5/2014	0.048	0.068				0.041
2/2/2015	0.069	0.066		0.02		
2/3/2015			0.031		0.033	0.04
8/3/2015			0.039 (D)	0.017 (D)	0.037 (D)	
8/4/2015	0.023 (D)	0.053				0.042
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	

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/2/2023 12:43 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
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
2/8/2022	0.066		0.013	0.031		0.03
2/9/2022		0.038			0.011	
8/30/2022	0.058		0.01	0.022	0.01	0.028
8/31/2022		0.026				
2/7/2023	0.051				0.011	0.032
2/8/2023		0.027	0.0089	0.034		
Mean	0.05002	0.05778	0.02877	0.03289	0.02739	0.04598
Std. Dev.	0.01852	0.02393	0.02327	0.01663	0.01737	0.02069
Upper Lim.	0.05834	0.0642	0.03312	0.03767	0.036	0.05439
Lower Lim.	0.04169	0.04693	0.01828	0.02515	0.014	0.03757

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/2/2023 12:43 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
11/22/2010		<0.003		<0.003	
1/4/2011		<0.003		<0.003	
2/17/2011		<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				
3/4/2012				<0.003	
3/5/2012	<0.003		<0.003		<0.003
3/6/2012		<0.003			
9/5/2012	<0.003		<0.003		<0.003
9/10/2012				<0.003	
9/11/2012		<0.003			
2/5/2013	<0.003				<0.003
2/6/2013		<0.003	<0.003	<0.003	
8/13/2013	<0.003	<0.003	<0.003		
8/14/2013				<0.003	<0.003
2/4/2014	<0.003	<0.003		<0.003	
2/5/2014			<0.003		<0.003
8/4/2014			0.0011 (J)	<0.003	0.00026 (J)
8/5/2014	7.5E-05 (J)	<0.003			
2/2/2015	0.00023 (J)	<0.003		<0.003	
2/3/2015			0.00061 (J)		0.00023 (J)
8/3/2015			0.00051 (JD)	<0.003 (D)	0.00046 (JD)
8/4/2015	<0.003 (D)	<0.003			
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)			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/2/2023 12:43 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
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
2/8/2022	0.00032 (J)		0.001	8.5E-05 (J)	
2/9/2022		0.00023 (J)			0.0036
8/30/2022	0.00037 (J)		0.00056	7.2E-05 (J)	0.0032
8/31/2022		0.00023 (J)			
2/7/2023	0.00037 (J)				0.0025
2/8/2023		0.00025 (J)	0.00033 (J)	0.00013 (J)	
Mean	0.001403	0.002035	0.001118	0.0025	0.001913
Std. Dev.	0.001423	0.001357	0.001084	0.001114	0.00125
Upper Lim.	0.003	0.003	0.0011	0.003	0.003
Lower Lim.	0.00013	0.00025	0.00039	0.00013	0.0005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/2/2023 12:43 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
11/22/2010		<0.0005		<0.0005	
1/4/2011		<0.0005		<0.0005	
2/17/2011		<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	<0.001
9/8/2011	<0.0025				
3/4/2012				<0.0005	
3/5/2012	<0.0025		<0.0005		<0.001
3/6/2012		<0.0005			
9/5/2012	<0.0025		<0.0005		<0.001
9/10/2012				<0.0005	
9/11/2012		<0.0005			
2/5/2013	<0.0025				<0.001
2/6/2013		<0.0005	<0.0005	<0.0005	
8/13/2013	<0.0025	<0.0005	<0.0005		
8/14/2013				<0.0005	<0.001
2/4/2014	<0.0025	<0.0005		<0.0005	
2/5/2014			<0.0005		<0.001
8/4/2014			0.00034 (J)	<0.0005	0.00045 (J)
8/5/2014	<0.0025	<0.0005			
2/2/2015	<0.0025	<0.0005		<0.0005	
2/3/2015			<0.0005		<0.001
8/3/2015			<0.0005 (D)	<0.0005 (D)	0.00046 (JD)
8/4/2015	<0.0025 (D)	<0.0005			
2/16/2016	<0.0025		0.00025 (J)	<0.0005	0.00097 (J)
2/17/2016		<0.0005			
8/31/2016	<0.0025	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	<0.0025		<0.0005		
2/24/2017				<0.0005	0.0003 (J)
5/9/2017	<0.0025		<0.0005		
5/10/2017		<0.0005		<0.0005	0.0003 (J)
7/17/2017					0.0004 (J)
7/18/2017	<0.0025	<0.0005	<0.0005	<0.0005	
10/16/2017					0.0006 (J)
10/17/2017	<0.0025	<0.0005		<0.0005	
10/18/2017			<0.0005		
2/20/2018		<0.0005		<0.0005	
2/21/2018	<0.0025		<0.0005		<0.001
8/7/2018	<0.0025		<0.0005		0.00083 (J)
8/8/2018		<0.0005		<0.0005	
2/26/2019	<0.0025	<0.0005	0.00011 (J)	<0.0005	0.00081 (J)
6/12/2019		<0.0005		<0.0005	
6/13/2019	<0.0025		0.00021 (J)		0.00073 (J)
8/19/2019				<0.0005	
8/20/2019	<0.0025	<0.0005			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/2/2023 12:43 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
8/21/2019			<0.0005		0.0012 (J)
10/9/2019	<0.0025	<0.0005			0.0011 (J)
10/10/2019			0.00018 (J)	<0.0005	
3/17/2020	<0.0025		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
2/8/2022	0.00019 (J)		0.00018 (J)	<0.0005	
2/9/2022		<0.0005			0.001
8/30/2022	0.00026 (J)		0.00016 (J)	0.00011 (J)	0.00098
8/31/2022		0.00012 (J)			
2/7/2023	0.0002 (J)				0.0013
2/8/2023		<0.0005	<0.0005	<0.0005	
Mean	0.001877	0.0004271	0.0003833	0.0004774	0.0008493
Std. Dev.	0.001051	0.0001483	0.0001534	9.303E-05	0.0002855
Upper Lim.	0.0025	0.0005	0.0005	0.0005	0.0009085
Lower Lim.	0.00026	0.00016	0.00022	0.0005	0.0006444

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/2/2023 12:43 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	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
11/22/2010		<0.005		<0.005		
1/4/2011		<0.005		0.0062		
2/17/2011		<0.005		<0.005		
3/10/2011						<0.01
3/11/2011		<0.005		<0.005		
3/28/2011		<0.005		<0.005		
9/7/2011		<0.005	<0.005	<0.005	<0.01	
9/8/2011	<0.01					0.0018
3/4/2012				<0.005		
3/5/2012	<0.01		<0.005		<0.01	<0.01
3/6/2012		<0.005				
9/5/2012	<0.01		<0.005		<0.01	0.0013
9/10/2012				<0.005		
9/11/2012		<0.005				
2/5/2013	<0.01				<0.01	<0.01
2/6/2013		<0.005	<0.005	<0.005		
8/13/2013	<0.01	0.0017	0.0019			0.0025
8/14/2013				<0.005	0.0016	
2/4/2014	<0.01	<0.005		<0.005		0.0013
2/5/2014			0.0023		0.0018	
8/4/2014			0.002	<0.005	0.0029	
8/5/2014	<0.01	<0.005				0.0018
2/2/2015	0.0028	<0.005		<0.005		
2/3/2015			0.0014		0.0017	0.0015
8/3/2015			0.0012 (JD)	<0.005 (D)	0.0028 (D)	
8/4/2015	<0.01 (D)	<0.005				0.0028
2/16/2016	<0.01		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						<0.01
2/20/2018		<0.005		<0.005		
2/21/2018	<0.01		<0.005		<0.01	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/2/2023 12:43 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/6/2018						<0.01
8/7/2018	<0.01		<0.005		0.0024 (J)	
8/8/2018		<0.005		<0.005		
2/25/2019						<0.01
2/26/2019	<0.01	<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)
2/8/2022	0.002 (J)		0.0011 (J)	<0.005		0.0017 (J)
2/9/2022		<0.005			0.0022 (J)	
8/30/2022	0.0015 (J)		<0.005	<0.005	0.0019 (J)	0.0016 (J)
8/31/2022		<0.005				
2/7/2023	0.002 (J)				0.0028 (J)	0.0025 (J)
2/8/2023		<0.005	0.0017 (J)	0.0012 (J)		
Mean	0.00479	0.004402	0.002424	0.004331	0.003477	0.004144
Std. Dev.	0.004344	0.001497	0.001749	0.001603	0.002988	0.003957
Upper Lim.	0.01	0.005	0.0023	0.005	0.0028	0.0028
Lower Lim.	0.0011	0.0017	0.0011	0.0013	0.0019	0.0014

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/2/2023 12:43 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	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
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
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	0.015					<0.005
3/4/2012				0.0032		
3/5/2012	<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				0.0067		
9/11/2012		0.017				
2/5/2013	0.0013				<0.005	<0.005
2/6/2013		0.025	<0.005	0.0024		
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	
8/4/2014			<0.005	<0.005	<0.005	
8/5/2014	<0.005	0.023				<0.005
2/2/2015	0.0015	0.022		<0.005		
2/3/2015			<0.005		<0.005	<0.005
8/3/2015			<0.005 (D)	<0.005 (D)	<0.005 (D)	
8/4/2015	<0.005 (D)	0.021				0.0014
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	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/2/2023 12:43 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
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
2/8/2022	0.0019 (J)		0.0074	0.0034 (J)		<0.005
2/9/2022		0.00085 (J)			0.00064 (J)	
8/30/2022	0.00087 (J)		0.0021 (J)	0.002 (J)	0.00077 (J)	<0.005
8/31/2022		0.0036 (J)				
2/7/2023	0.00086 (J)				0.00085 (J)	<0.005
2/8/2023		0.00052 (J)	0.00085 (J)	0.0006 (J)		
Mean	0.002852	0.01958	0.005258	0.003067	0.003809	0.0049
Std. Dev.	0.003001	0.0122	0.002268	0.002045	0.002011	0.0006
Upper Lim.	0.005	0.02461	0.0074	0.002972	0.005	0.005
Lower Lim.	0.00081	0.01455	0.0041	0.001492	0.00085	0.005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/2/2023 12:43 PM View: Appendix IV

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)
2/8/2022	0.649 (U)		0.389 (U)	0.319 (U)		0.413 (U)
2/9/2022		0.42 (U)			0.48 (U)	
8/30/2022	0.476 (U)		0.884 (U)	0.433 (U)	1.36	0.861 (U)
8/31/2022		1.55				
2/7/2023	1.17				0.871 (U)	0.72 (U)
2/8/2023		0.453 (U)	0.0452 (U)	0.453 (U)		
Mean	0.7888	1.01	0.671	0.4085	0.6583	0.7826
Std. Dev.	0.3352	0.5811	0.6611	0.2631	0.4502	0.522
Upper Lim.	0.9703	1.312	0.9386	0.5734	0.9404	1.022
Lower Lim.	0.5705	0.6179	0.2495	0.2436	0.3763	0.4681

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/2/2023 12:43 PM View: Appendix IV

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
2/8/2022	<0.1		0.16	<0.1		<0.1
2/9/2022		<0.1			0.053 (J)	
8/30/2022	<0.1		0.14	0.05 (J)	0.11	0.064 (J)
8/31/2022		<0.1				
2/7/2023	<0.1				0.077 (J)	0.07 (J)
2/8/2023		<0.1	0.12	0.05 (J)		
Mean	0.0905	0.114	0.1302	0.094	0.1085	0.0977
Std. Dev.	0.01986	0.1119	0.1151	0.02393	0.09006	0.04828
Upper Lim.	0.1	0.58	0.1362	0.11	0.11	0.1
Lower Lim.	0.06	0.08	0.05764	0.08	0.056	0.07

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/2/2023 12:43 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
11/22/2010		<0.001		<0.001	
1/4/2011		<0.001		<0.001	
2/17/2011		<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				
3/4/2012				<0.001	
3/5/2012	<0.001		<0.001		<0.001
3/6/2012		<0.001			
9/5/2012	<0.001		<0.001		<0.001
9/10/2012				<0.001	
9/11/2012		<0.001			
2/5/2013	<0.001				<0.001
2/6/2013		<0.001	<0.001	<0.001	
8/13/2013	<0.001	<0.001	<0.001		
8/14/2013				<0.001	<0.001
2/4/2014	<0.001	<0.001		<0.001	
2/5/2014			<0.001		<0.001
8/4/2014			<0.001	<0.001	<0.001
8/5/2014	<0.001	<0.001			
2/2/2015	<0.001	<0.001		<0.001	
2/3/2015			<0.001		<0.001
8/3/2015			<0.001 (D)	<0.001 (D)	<0.001 (D)
8/4/2015	<0.001 (D)	<0.001			
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)			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/2/2023 12:43 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R
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
2/8/2022	<0.001		<0.001	<0.001	
2/9/2022		<0.001			<0.001
8/30/2022	<0.001		<0.001	<0.001	<0.001
8/31/2022		<0.001			
2/7/2023	<0.001				<0.001
2/8/2023		<0.001	<0.001	<0.001	
Mean	0.0009373	0.000815	0.0007875	0.0009726	0.0008167
Std. Dev.	0.0002386	0.0003755	0.000392	0.0001621	0.0003735
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	6.7E-05	0.0001	0.00015	0.001	0.00019

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/2/2023 12:43 PM View: Appendix IV

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)	<0.05	<0.03			
9/1/2016				<0.03	<0.05	<0.25
11/28/2016		<0.05				
11/29/2016	<0.05					<0.25
11/30/2016			<0.03	<0.03		
12/1/2016					<0.05	
2/22/2017		0.0036 (J)				
2/23/2017	<0.05		<0.03			0.0028 (J)
2/24/2017				<0.03	<0.05	
5/9/2017	0.002 (J)		<0.03			
5/10/2017		0.0035 (J)		<0.03	<0.05	0.0054 (J)
7/17/2017					<0.05	
7/18/2017	<0.05	0.0035 (J)	<0.03	<0.03		0.002 (J)
10/16/2017					<0.05	
10/17/2017	0.0016 (J)	0.0035 (J)		<0.03		
10/18/2017			<0.03			0.0026 (J)
2/19/2018						<0.25
2/20/2018		<0.05		<0.03		
2/21/2018	0.0014 (J)		<0.03		<0.05	
8/6/2018						<0.25
8/7/2018	0.001 (J)		<0.03		<0.05	
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)
2/8/2022	0.0018 (J)		0.00094 (J)	<0.03		0.0016 (J)
2/9/2022		0.0042 (J)			0.0018 (J)	
8/30/2022	0.0019 (J)		<0.03	<0.03	0.0014 (J)	0.0013 (J)
8/31/2022		0.0042 (J)				
2/7/2023	0.0023 (J)				0.0014 (J)	0.0017 (J)
2/8/2023		0.0038 (J)	<0.03	0.00098 (J)		
Mean	0.009691	0.01174	0.02356	0.02036	0.02305	0.05763
Std. Dev.	0.01855	0.01761	0.0124	0.01403	0.0248	0.1058
Upper Lim.	0.0024	0.0053	0.03	0.03	0.05	0.0083
Lower Lim.	0.0013	0.0036	0.0012	0.0011	0.0014	0.0017

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/2/2023 12:43 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	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
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
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
3/4/2012				<0.0002		
3/5/2012	<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		
9/11/2012		<0.0002				
2/5/2013	<0.0002				<0.0002	<0.0002
2/6/2013		<0.0002	<0.0002	0.00014		
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	
8/4/2014			<0.0002	<0.0002	<0.0002	
8/5/2014	<0.0002	<0.0002				<0.0002
2/2/2015	<0.0002	<0.0002		<0.0002		
2/3/2015			<0.0002		<0.0002	<0.0002
8/3/2015			<0.0002 (D)	<0.0002 (D)	<0.0002 (D)	
8/4/2015	<0.0002 (D)	<0.0002				<0.0002
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	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/2/2023 12:43 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
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
2/8/2022	<0.0002		<0.0002	<0.0002		<0.0002
2/9/2022		<0.0002			<0.0002	
8/30/2022	<0.0002		<0.0002	0.00014 (J)	<0.0002	<0.0002
8/31/2022		<0.0002				
2/7/2023	<0.0002				<0.0002	<0.0002
2/8/2023		<0.0002	<0.0002	0.0002 (J)		
Mean	0.0001953	0.0001963	0.0001969	0.0001925	0.0001953	0.0001911
Std. Dev.	2.574E-05	2.18E-05	6.044E-05	2.733E-05	2.556E-05	3.796E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	0.0002	0.0002	6.4E-05	0.00014	0.0002	0.0002

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/2/2023 12:43 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	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
11/22/2010		<0.01		<0.01		
1/4/2011		<0.01		<0.01		
2/17/2011		<0.01		<0.01		
3/10/2011						<0.005
3/11/2011		<0.01		<0.01		
3/28/2011		<0.01		<0.01		
9/7/2011		<0.01	<0.01	<0.01	<0.013	
9/8/2011	<0.01					<0.005
3/4/2012				<0.01		
3/5/2012	<0.01		<0.01		0.014	<0.005
3/6/2012		<0.01				
9/5/2012	<0.01		<0.01		0.012	<0.005
9/10/2012				0.011		
9/11/2012		<0.01				
2/5/2013	<0.01				0.011	<0.005
2/6/2013		<0.01	<0.01	0.011		
8/13/2013	<0.01	<0.01	0.0057			<0.005
8/14/2013				0.013	0.025	
2/4/2014	<0.01	<0.01		0.017		<0.005
2/5/2014			<0.01		0.02	
8/4/2014			<0.01	0.0085	0.032	
8/5/2014	<0.01	<0.01				<0.005
2/2/2015	<0.01	<0.01		0.0089		
2/3/2015			<0.01		0.011	<0.005
8/3/2015			<0.01 (D)	0.0067 (D)	0.046 (D)	
8/4/2015	<0.01 (D)	<0.01				<0.005
2/16/2016	<0.01		<0.01	0.0047 (J)	0.022	<0.005
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						<0.005
2/20/2018		<0.01		<0.01		
2/21/2018	<0.01		<0.01		0.0127	

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/2/2023 12:43 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
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)
2/8/2022	0.02		0.0091	0.0044 (J)		<0.005
2/9/2022		0.0042 (J)			0.017	
8/30/2022	0.03		0.0068	0.0038 (J)	0.019	<0.005
8/31/2022		0.0042 (J)				
2/7/2023	0.025				0.02	<0.005
2/8/2023		0.0043 (J)	0.002 (J)	0.0029 (J)		
Mean	0.009807	0.006329	0.007433	0.007123	0.02117	0.004158
Std. Dev.	0.006641	0.003505	0.003802	0.003798	0.008496	0.001242
Upper Lim.	0.011	0.01	0.01	0.01	0.02499	0.005
Lower Lim.	0.0066	0.0032	0.0045	0.0041	0.01735	0.0037

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 5/2/2023 12:43 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-5R
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	<0.001
3/5/2012		<0.001
3/6/2012	<0.001	
9/5/2012		<0.001
9/11/2012	<0.001	
2/5/2013		<0.001
2/6/2013	<0.001	
8/13/2013	<0.001	
8/14/2013		<0.001
2/4/2014	<0.001	
2/5/2014		<0.001
8/4/2014		<0.001
2/2/2015	<0.001	
2/3/2015		<0.001
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
2/9/2022	<0.001	<0.001
8/30/2022		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 5/2/2023 12:43 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-5R
8/31/2022	<0.001	
2/7/2023		<0.001
2/8/2023	<0.001	
Mean	0.0009718	0.0009673
Std. Dev.	0.0001619	0.0001759
Upper Lim.	0.001	0.001
Lower Lim.	0.001	5.3E-05

ND substitution: RL or RL/2 if <15% NDs.

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