




2020 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

Plant Yates - Gypsum Landfill

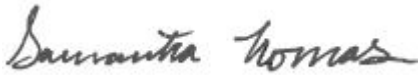
Newnan, Georgia

July 2020

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**2020 ANNUAL
GROUNDWATER
MONITORING AND
CORRECTIVE ACTION
REPORT**

Plant Yates - Gypsum Landfill
Newnan, Georgia



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ACRONYMS AND ABBREVIATIONS

ACC	Atlantic Coast Consulting, Inc.
ACM	Assessment of Corrective Measures
AP	Plant Yates Ash Ponds
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
QA/QC	Quality Assurance/Quality Control
SSI	Statistically Significant Increase
SSL	statistically significant level
USEPA	United States Environmental Protection Agency

CERTIFICATION SUMMARY

This *2020 Annual Groundwater Monitoring and Corrective Action Report* for the Georgia Power Company Plant Yates Gypsum Landfill has been prepared in compliance with the United States Environmental Protection Agency coal combustion residual rule (40 Code of Federal Regulations 257 Subpart D) and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Arcadis, U.S., Inc.

Arcadis U.S., Inc.



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07.29.20
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1 INTRODUCTION

This *2020 Annual Groundwater Monitoring and Corrective Action Report* presents groundwater monitoring activities conducted at the Georgia Power Company (GPC) Plant Yates Gypsum Landfill (the Site) in the second half of 2019 and first half of 2020. 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.

A permit application package for the Plant Yates Gypsum Stack Landfill was submitted in November 2018 to comply with GAEPD's Rule 391-3-4-.10 and is currently under review. 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 both the annual monitoring for Appendix IV of 40 CFR Part 257 conducted in August 2019, and two semiannual monitoring events conducted in October 2019 and March 2020.

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 prior to 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.

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 February 2020).

A thin layer of soil from one to two feet thick overlies a thick layer of saprolite. The saprolite, which extends to typical depths of 20 to 40 feet below ground surface, was formed in-place by the physical and chemical weathering of the underlying metamorphic rocks. The saprolite typically consists of clay and silt rich soils that grade to sandier soils with depth. A zone of variable thickness (approximately 5 to 20 feet)

of transitionally weathered rock typically exists between the saprolite and competent bedrock. The lithology of the transition zone is highly variable and ranges from medium to coarse unconsolidated material to highly fractured and weathered rock fragments. Localized alluvial soils consisting of generally coarser material (silty-sand, clayey silt, and silty clay with well-rounded gravel and cobbles) that have been observed in saprolite may be related to historical river channel migration.

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

Field hydraulic conductivity tests (i.e., slug tests) have been performed in saprolite and weathered bedrock at multiple locations on the site. The average hydraulic conductivity for the unit is 2.3×10^{-4} centimeters per second, based on multiple rising-head and falling-head slug tests (SCS 1992). 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 in **Figure 2**.

2 GROUNDWATER MONITORING ACTIVITIES

Pursuant to 40 CFR § 257.90(e), the following describes monitoring-related activities performed in the second half of 2019 and the first half of 2020 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 2**.

Table 2 summarizes groundwater sampling events conducted by ACC at the Site during the past year. During the August 2019 event, groundwater samples were collected and analyzed for 40 CFR 257 Appendix IV constituents to meet the requirement of 40 CFR § 257.95(b). During the October 2019 and March 2020 semiannual sampling events, groundwater samples were collected for both 40 CFR 257 Appendix III and the Appendix IV constituents detected during the August 2019 event as well as permit-required Appendix I constituents pursuant to Rule 391-3-4-.14. Field sampling logs are provided in **Appendix B**.

2.1 Monitoring Well Installation and Maintenance

Monitoring well related activities were limited to visual inspection well conditions prior to sampling, recording the site conditions, and performing exterior maintenance to provide safe access for sampling.

2.2 Assessment Monitoring

Statistically Significant Increases (SSIs) of Appendix III constituents were identified in the initial detection monitoring event (June 2019). The initial assessment monitoring event was conducted in August 2019. Semiannual assessment monitoring events were conducted in October 2019 and March 2020. Pursuant to § 257.95(d)(1), groundwater samples collected from the CCR monitoring wells were analyzed for Appendix III constituents, those Appendix IV constituents detected during the initial assessment event, and the Appendix I and II metals required by the existing state permit.

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

Prior to each assessment sampling event, static water levels were recorded from the wells in the well network for the Gypsum Landfill. Groundwater elevations recorded during the August 2019, October 2019, and March 2020 monitoring events are summarized in **Table 4**. Potentiometric surface maps are provided in **Figures 3 through 5** for the August 2019, October 2019, and March 2020 sampling events. 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

Groundwater flow velocities were calculated for the site based on hydraulic gradients, average hydraulic conductivity based on previous slug test data, and an estimated effective porosity of 0.20 (based on a review of several sources, including Driscoll 1986, USEPA 1989, and Freeze and Cherry 1979). An alternate effective porosity of 0.48 was also used to define the range of groundwater flow velocities (SCS 1992). Groundwater flow velocities have been calculated and are presented in **Table 5**. The calculated flow velocity ranged from 0.04 feet per day (15 feet per year) to 0.1 feet per day (40 feet per year).

3.2 Groundwater Sampling

Groundwater samples were collected using low-flow sampling procedures in accordance with 40 CFR § 257.93(a). Monitoring wells were purged and sampled using a dedicated bladder pump until water quality

parameters stabilized. For wells sampled with non-dedicated bladder pumps, the pumps were lowered into the well so that the intake was at the midpoint of the well screen (or as appropriate determined by the water level). All non-disposable equipment was decontaminated before use and between well locations.

A smarTroll™ (In-Situ field instrument) was used to monitor and record field water quality parameters (pH, conductivity, and dissolved oxygen [DO]) during well purging to verify stabilization prior to sampling. Turbidity was measured using a Hach 2100Q portable turbidimeter. Groundwater samples were collected when the following stabilization criteria were met for a minimum of three consecutive readings:

- ± 0.1 standard units for pH.
- $\pm 10\%$ for specific conductance.
- $\pm 10\%$ for DO where DO > 0.5 milligram per liter (mg/L). No criterion applies if DO < 0.5 mg/L.
- Turbidity measurements less than 10 nephelometric turbidity units.

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

3.3 Laboratory Analysis

Groundwater samples collected from the August 2019 initial assessment monitoring event were analyzed for Appendix IV parameters. Groundwater samples during the subsequent semiannual assessment events were analyzed for Appendix III constituents, Appendix IV constituents detected during the initial assessment event, and the 40 CFR Part 258 Appendix I and II metals required by the existing state permit. Appendix IV parameters not detected during the initial assessment event included mercury and molybdenum. Analytical **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 collected from the initial assessment scan and semiannual sampling are summarized in **Table 6**. A summary of historical groundwater data is provided in **Appendix C**.

Laboratory analyses were performed by Pace Analytical Services, LLC, which is accredited by the National Environmental Laboratory Accreditation Program and maintains this certification for all parameters analyzed for this project. Laboratory reports and chain-of-custody records for the monitoring events are presented in **Appendix A**.

3.4 Data Quality Assurance/Quality Control and Validation

During each sampling event, quality assurance/quality control (QA/QC) samples were collected at a rate of one sampler per every 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 was validated in accordance with USEPA guidance (USEPA 2011) and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spikes/matrix spike duplicate recoveries and relative percent differences, post-

digestion spikes, laboratory and field duplicate relative percent differences, equipment blanks, and reporting limits. Where appropriate, validation qualifiers and flags have been applied to the data using USEPA procedures as guidance (USEPA 2017). The data validation report prepared by ACC included in **Appendix A** summarizes the validation actions and applicable interpretation.

The purpose of the data quality evaluation was to determine the reliability of the chemical analyses and the accuracy and precision of information acquired from the laboratory. Data quality was assessed through the review and evaluation of field sampling activities, quality control samples, and data associated with the chemical analytical results. The 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 MDL and the laboratory reporting limit. The estimated value is positively identified but is below the lowest level that can be reliably achieved within specified limits of precision and accuracy under routine laboratory operating conditions. "J" flagged data are used to establish background statistical limits but are not used when performing statistical analyses.

4 STATISTICAL ANALYSIS

Statistical analysis of Appendix III and IV groundwater monitoring data was performed on samples collected from the Gypsum Landfill groundwater monitoring network pursuant to § 257.93(f) in October 2019 and March 2020. 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

All screened historical background data through August 2018 were used to construct statistical limits for both Appendix III constituents and permit required Appendix I metals. 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).

4.1.1 Permit-Required Appendix I and II Metals

A permit minor modification was submitted to GAEPD following submittal of the *2019 First Supplemental Semiannual Groundwater Monitoring Report* to allow for interwell methods to be used 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 (PL) combined with a 1-of-2 verification resample plan for all required metals. In an intrawell comparison, analytical results from an individual well are compared to historical analytical results from that same well. If data from a sampling event initially exceeds 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 re-sample 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 limit for an individual constituent, and the most recent sample from each downgradient well is compared to the same limit for each parameter. Intrawell prediction limits are constructed from historical data within a given well, and the most recent sample is compared to background. When the most recent sample exceeds its respective background statistical limit, a statistically significant increase (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 to 50 percent non-detects, the Kaplan-Meier non-detect adjustment was applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Non-parametric prediction limits were used on data containing greater than 50 percent non-detects.

4.1.3 Appendix IV Assessment Monitoring Statistics

Statistical tests used to evaluate the groundwater monitoring data consist of interwell tolerance limits combined with a 1-of-2 verification resample plan for Appendix IV parameters. Interwell tolerance limits pool upgradient well data to establish background limits for each constituent. The most recent sample from each downgradient well is then compared to calculated background limit. The background limits were then used when determining the groundwater protection standards (GWPS) established 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;
- For the following constituents:
 - Cobalt 0.006 mg/L
 - Lead 0.015 mg/L
 - Lithium 0.040 mg/L
 - Molybdenum 0.100 mg/L; and

- The background level for constituents where the background level is higher than the MCL or rule identified GWPS.

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

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

Following the above federal and state rules, GWPS have been established for statistical comparison of Appendix IV constituents at AP-1. **Table 7** summarizes the background limits established at each monitoring well for the October 2019 and March 2020 sampling events along with the GWPS established under federal and state rules.

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV parameters in each downgradient well. Those confidence intervals were compared to the GWPS established under the federal and state rules. A well/constituent pair was considered to exceed its respective standard only when the entire confidence interval exceeded a GWPS. If there was an exceedance of the established standard, an 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. Except for zinc from GWC-5R, concentrations of target metals were within their respective intrawell prediction limits calculated from the October 2019 sampling event. This detection was reevaluated following a resample collected in January 2020 where the initial exceedance was not confirmed. Therefore, no further action was required. The results of the resample are included in **Appendix C**.

Concentrations of target metals were within their respective intrawell prediction limit during the March 2020 sampling event except for cobalt from GWC-3R, and zinc from GWC-5R. Historically, the majority of data for cobalt in well GWC-3R are nondetects with a reporting limit of 0.01 mg/L. The reported value for cobalt at this well during the March 2020 event was 0.011 mg/L and in the previous October 2019 event was a reported nondetect that resulted in no statistical exceedance. An Alternate Source Demonstration (ASD) was approved by GAEPD on September 15, 2017 for cobalt which is found naturally in underlying rock formations at the site where natural spatial variability exists (SCS 2017).

While a prediction limit exceedance was noted for zinc in well GWC-5R, the confidence interval provided in **Appendix D** shows average concentrations at this well are well below the groundwater protection standard of 5.0 mg/L.

4.2.2 Appendix III Constituents

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

4.2.3 Appendix IV Constituents

4.2.3.1 Second 2019 Semiannual Monitoring Event

Statistical analysis of the October 2019 Appendix IV data at AP-1 was completed using the GWPS established according to both 40 CFR § 257.95(h) and GA EPD Rule 391-3-4-.10(6)(a). No SSLs were identified.

4.2.3.2 First 2020 Semiannual Monitoring Event

Statistical analysis of the March 2020 Appendix IV data was completed using the GWPS established according to both 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a). The following SSL was identified:

- Cobalt: GWC-2R

Sanitas™ statistical output data for calculation of site-specific background concentrations (interwell tolerance limits) and confidence intervals for each Appendix IV constituent in downgradient wells are provided in **Appendix D**. An ASD for Cobalt was submitted in 2017 stating that cobalt is found naturally in underlying rock formations at the site where natural spatial variability exists (SCS 2017). Georgia EPD approved this ASD in a letter dated September 15, 2017.

5 MONITORING PROGRAM STATUS

In accordance with GA EPD 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 III parameters.

6 CONCLUSIONS AND FUTURE ACTIONS

This *2020 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 III. SSLs were identified for cobalt at GWC-2R and zinc (a state permit metal) at GWC-3R. However, the zinc concentration is well below the GWPS and an ASD has been approved for cobalt. Therefore, no further action is required for the SSL of cobalt at this site, and the site will remain in assessment monitoring. The next assessment monitoring scan event for Appendix IV parameters is tentatively scheduled for August 2020.

7 REFERENCES

- ACC. 2019. *Supplemental 2019 First Semiannual Groundwater Monitoring Report*. Prepared for Georgia Environmental Protection Division. February 2020.
- Driscoll, F.G. 1986. *Groundwater and Wells*, Johnson Screens, Saint Paul, Minnesota, 1089 pp.
- EPRI, 2015 Technical Report, Groundwater Monitoring Guidance for the Coal Combustion Residuals Rule.
- Freeze, R.A. and Cherry, J.A. 1979. *Groundwater*, Prentice-Hall, Englewood Cliffs, New Jersey, 604 pp.
- SCS. 1992. The Geology and Hydrogeology of the Plant Yates CT121 Project Gypsum Stacking Area.
- SCS. 2017. *Alternate Source Demonstration – Plant Yates Industrial Solid Waste Landfill – Gypsum Stack*.
- USEPA. 2009. Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance. Office of Resource Conservation and Recovery – Program Implementation and Information Division. March.
- USEPA. 2011. Data Validation Standard Operating Procedures. Science and Ecosystem Support Division. Region IV. Athens, GA. September.
- USEPA. 2017. National Functional Guidelines for Inorganic Superfund Methods Data Review. Office of Superfund Remediation and Technology Innovation. OLEM 9355.0-135 [EPA-540-R-2017-001]. Washington, DC. January.

TABLES



Table 1
Monitoring Well Network Summary
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Well	Installation Date	Bottom Depth (ft bTOC)	Bottom Elevation (ft)	Depth to Top of Screen (ft bTOC)	Top of Screen Elevation (ft)	Purpose
GWA-2	2007	52.13	753.49	42.10	763.52	Upgradient
GWC-1R	5/12/2011	36.41	736.94	26.11	746.93	Downgradient
GWC-2R	10/19/2010	44.00	725.61	33.70	735.61	Downgradient
GWC-3R	5/11/2011	38.35	736.94	28.05	746.94	Downgradient
GWC-4R	10/20/2010	30.20	725.97	19.90	735.94	Downgradient
GWC-5R	5/11/2011	42.77	739.72	32.47	749.73	Downgradient
GWC-6R	8/11/2009	51.87	736.73	41.60	746.72	Downgradient

Notes:

ft bTOC - feet below top of casing

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

Table 2
Groundwater Sampling Event Summary
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Georgia Power Company
Plant Yates - Gypsum Landfill

Well	Hydraulic Location	Summary of Sampling Events		
		August 2019	October 2019	March 2020
		Initial Assessment	Semiannual Assessment	Semiannual Assessment
GWA-2	Upgradient	Scan	A-01	A-02
GWC-1R	Downgradient	Scan	A-01	A-02
GWC-2R	Downgradient	Scan	A-01	A-02
GWC-3R	Downgradient	Scan	A-01	A-02
GWC-4R	Downgradient	Scan	A-01	A-02
GWC-5R	Downgradient	Scan	A-01	A-02
GWC-6R	Downgradient	Scan	A-01	A-02

Notes

1. Scan - All Appendix IV
2. A-XX - Assessment Event Number (Appendix III and Detected Appendix IV)
3. Mercury was inadvertently sampled during the October event. Samples were collected in May 2020 after the routine semiannual event for consistency.

Table 3
Summary of Groundwater Monitoring Parameters
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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		<i>Mercury</i>
Selenium		<i>Molybdenum</i>
Silver		Radium combined - 226/228
Thallium		Selenium
Vanadium		Thallium
Zinc		

Notes:

Italicized groundwater monitoring parameters not detected during the initial assessment monitoring event

Table 4
Summary of Groundwater Elevations
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Georgia Power Company
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Well ID	Date Measured	TOC (ft) ¹	Depth to Water (ft bTOC)	Groundwater Elevation (ft)
GWA-2	8/19/2019	805.62	39.00	766.62
GWC-1R	8/19/2019	773.27	24.35	748.92
GWC-2R	8/19/2019	769.76	29.57	740.19
GWC-3R	8/19/2019	775.25	29.82	745.43
GWC-4R	8/19/2019	757.48	17.45	740.03
GWC-5R	8/19/2019	782.45	29.92	752.53
GWC-6R	8/19/2019	788.98	37.81	751.17
GWA-2	10/11/2019	805.31	36.26	769.05
GWC-1R	10/11/2019	773.28	24.16	749.12
GWC-2R	10/11/2019	769.41	29.73	739.68
GWC-3R	10/11/2019	775.28	29.56	745.72
GWC-4R	10/11/2019	757.02	17.76	739.26
GWC-5R	10/11/2019	782.54	30.22	752.32
GWC-6R	10/11/2019	788.60	35.84	752.76
GWA-2	3/17/2020	805.62	36.33	769.29
GWC-1R	3/17/2020	773.27	18.39	754.88
GWC-2R	3/17/2020	769.76	26.33	743.43
GWC-3R	3/17/2020	775.25	26.29	748.96
GWC-4R	3/17/2020	757.48	14.11	743.37
GWC-5R	3/17/2020	782.45	25.82	756.63
GWC-6R	3/17/2020	788.98	33.79	755.19

Notes

ft bTOC - feet below top of casing

¹ Elevation in U.S. Survey Feet (NAVD88) based on June 2020 survey. The October 2019 data were not updated to correlate with previously submitted maps

Equation

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

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

Values Used in Calculation

Value	Source
K: 2.30E-04 cm/sec 0.7 ft/day	See note 1
i ₁ = 0.034 unitless i ₁ = 0.029	Hydraulic gradient from: GWA-2 to GWC-4R (Oct. 2019) GWA-2 to GWC-4R (Mar. 2020)
n _e = 0.48 unitless	See note 1
n _e = 0.20 unitless	See note 2

Site-specific seepage velocity using porosity value of 0.48

$$v = \frac{\text{Oct. 2019} (0.66) (0.034)}{0.48}$$

v = 0.047 ft/day or 17 ft/year

$$v = \frac{\text{Mar. 2020} (0.66) (0.029)}{0.48}$$

v = 0.040 ft/day, or 15 ft/year

Seepage velocity using literature porosity value of 0.2

$$v = \frac{\text{Oct. 2019} (0.66) (0.034)}{0.2}$$

v = 0.1 ft/day or 40 ft/year

$$v = \frac{\text{Mar. 2020} (0.66) (0.029)}{0.20}$$

v = 0.1 ft/day, or 40 ft/year

Notes

1. The Geology & Hydrogeology of the Plant Yates CT-121 Project Gypsum Stacking Area (SCS, 1992)
2. Default value recommended by USEPA for silty sand-type soil (USEPA 1996).

Table 6
Summary of Groundwater Analytical Data
2020 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill

Analyte	MCL/SMCL	GWA-2	GWA-2	GWA-2	GWA-2	GWC-1R	GWC-1R	GWC-1R	GWC-1R	GWC-2R	GWC-2R
		8/19/2019	10/8/2019	3/17/2020	5/6/2020	8/20/2019	10/9/2019	3/17/2020	5/6/2020	8/20/2019	10/9/2019
Appendix III (40 CFR 257)											
pH	SU	6.23	6.28	6.14	6.24	5.33	5.37	5.70	6.80	5.33	5.39
Boron	mg/l	--	<0.0049	0.0051 J	--	--	0.029 J	0.092 J	--	--	0.018 J
Calcium	mg/l	--	28.3	24.3	--	--	59.1	36.7	--	--	27.8
Chloride	mg/l	--	5.1	4.8	--	--	6.9	15.5	--	--	9.8
Fluoride	mg/l	<0.029	0.052 J	0.053 J	--	<0.029	<0.029	< 0.050	--	<0.029	<0.029
Sulfate	mg/l	--	128	98.6	--	--	318	145	--	--	91.2
Total Dissolved Solids	mg/l	--	276	185	--	--	526	306	--	--	372
Appendix IV (40 CFR 257)											
Antimony	mg/l	<0.00027	<0.00027	< 0.00027	--	<0.00027	<0.00027	< 0.00027	--	<0.0027	<0.00027
Arsenic	mg/l	0.00095 J	<0.00035	< 0.00035	--	0.00044 J	<0.00035	< 0.00035	--	0.00075 J	<0.00035
Barium	mg/l	0.065	0.058	0.047	--	0.07	0.054	0.031	--	0.05	0.045
Beryllium	mg/l	<0.00074	<0.00074	< 0.00074	--	0.0001 J	0.00013 J	0.00076 J	--	0.00017 J	0.00014 J
Cadmium	mg/l	<0.00011	<0.00011	< 0.00011	--	<0.00011	<0.00011	< 0.00011	--	<0.00011	<0.00011
Chromium	mg/l	<0.00039	<0.00039	< 0.00039	--	0.0011 J	0.0012 J	0.0010 J	--	<0.00039	0.00059 J
Cobalt	mg/l	0.0035 J	0.0039 J	0.0030 J	--	0.00079 J	0.00064 J	0.00054 J	--	0.014	0.024
Lead	mg/l	<0.000046	<0.000046	< 0.000046	--	<0.000046	0.000052 J	< 0.000046	--	0.000061 J	0.000057 J
Lithium	mg/l	0.0019 J	0.0015 J	0.0017 J	--	0.0012 J	0.0013 J	0.00094 J	--	0.0043 J	0.0047 J
Mercury	mg/l	<0.00014	<0.00014	--	< 0.00014	<0.00014	<0.00014	--	< 0.00014	<0.00014	<0.00014
Molybdenum	mg/l	<0.00095	--	--	--	<0.00095	--	--	--	<0.00095	--
Radium	pci/l	1.39	< 1.32 U	1.00 U	--	< 1.25 U	< 0.482 U	1.40	--	1.22	< 0.71 U
Selenium	mg/l	<0.0013	<0.0013	< 0.0013	--	0.0022 J	0.0023 J	0.0017 J	--	0.0032 J	0.0026 J
Thallium	mg/l	0.000055 J	<0.000052	< 0.000052	--	<0.000052	<0.000052	< 0.000052	--	<0.000052	<0.000052
Appendix I & II Metals (State Permit) ⁶											
Copper	mg/l	--	0.00041 J	0.00078 J	--	--	0.00079 J	0.00040 J	--	--	0.00024 J
Nickel	mg/l	--	0.0051 J	0.0066	--	--	0.0015 J	0.00087 J	--	--	0.00058 J
Silver	mg/l	--	<0.00028	< 0.00028	--	--	<0.00028	< 0.00028	--	--	<0.00028
Vanadium	mg/l	--	<0.00071	< 0.00071	--	--	<0.00071	< 0.00071	--	--	<0.00071
Zinc	mg/l	--	0.0078 J	< 0.018	--	--	0.0078 J	< 0.018	--	--	0.0069 J

Table 6
Summary of Groundwater Analytical Data
2020 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill

Analyte	MCL/SMCL	GWC-2R	GWC-2R	GWC-3R	GWC-3R	GWC-3R	GWC-3R	GWC-4R	GWC-4R	GWC-5R
		3/18/2020	5/7/2020	8/21/2019	10/10/2019	3/17/2020	5/7/2020	3/18/2020	5/7/2020	8/21/2019
Appendix III (40 CFR 257)										
pH	SU	5.38	5.43	5.32	5.4	5.03	5.05	5.58	5.52	4.88
Boron	mg/l	0.026 J	--	--	0.0061 J	0.0099 J	--	5.4	--	--
Calcium	mg/l	34.5	--	--	4.3	20.3	--	76.6	--	--
Chloride	mg/l	11.7	--	--	5.3	5.2	--	233	--	--
Fluoride	mg/l	< 0.050	--	0.037 J	<0.029	0.10 J	--	< 0.050	--	<0.029
Sulfate	mg/l	200	--	--	48	95.2	--	199	--	--
Total Dissolved Solids	mg/l	351	--	--	109	175	--	703	--	--
Appendix IV (40 CFR 257)										
Antimony	mg/l	< 0.00027	--	<0.00027	<0.00027	< 0.00027	--	< 0.00027	--	0.00054 J
Arsenic	mg/l	< 0.00035	--	0.00061 J	<0.00035	0.0016 J	--	< 0.00035	--	0.00094 J
Barium	mg/l	0.040	--	0.02	0.018	0.024	--	0.038	--	0.014
Beryllium	mg/l	0.00012 J	--	0.00046 J	0.00039 J	0.00095 J	--	< 0.00074	--	0.0028 J
Cadmium	mg/l	< 0.00011	--	<0.00011	0.00018 J	0.00037 J	--	< 0.00011	--	0.0012 J
Chromium	mg/l	0.00040 J	--	0.001 J	0.0014 J	0.0013 J	--	< 0.00039	--	0.0024 J
Cobalt	mg/l	0.019	--	0.0016 J	<0.00030	0.011	--	0.0031 J	--	0.00034 J
Lead	mg/l	< 0.000046	--	0.000082 J	<0.000046	0.00015 J	--	< 0.000046	--	0.00007 J
Lithium	mg/l	0.0053 J	--	<0.00078	<0.00078	0.0012 J	--	< 0.00078	--	0.0015 J
Mercury	mg/l	--	< 0.00014	<0.00014	0.00043 J	--	< 0.00014	--	< 0.00014	<0.00014
Molybdenum	mg/l	--	--	<0.00095	--	--	--	--	--	<0.00095
Radium	pci/l	1.30	--	< 0.774 U	< 0.433 U	2.84	--	0.866 U	--	1.82
Selenium	mg/l	0.0032 J	--	0.004 J	0.0021 J	0.0096 J	--	0.0046 J	--	0.037
Thallium	mg/l	< 0.000052	--	<0.000052	<0.000052	< 0.000052	--	< 0.000052	--	0.000053 J
Appendix I & II Metals (State Permit) ⁶										
Copper	mg/l	< 0.00019	--	--	0.00033 J	0.00039 J	--	0.00021 J	--	--
Nickel	mg/l	0.00063 J	--	--	<0.00031	0.00056 J	--	0.0026 J	--	--
Silver	mg/l	< 0.00028	--	--	<0.00028	< 0.00028	--	< 0.00028	--	--
Vanadium	mg/l	< 0.00071	--	--	0.0011 J	< 0.00071	--	< 0.00071	--	--
Zinc	mg/l	< 0.018	--	--	0.0079 J	< 0.018	--	< 0.018	--	--

Table 6
Summary of Groundwater Analytical Data
2020 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill

Analyte	MCL/SMCL	GWC-5R	GWC-5R	GWC-5R	GWC-5R	GWC-6R	GWC-6R	GWC-6R
		10/9/2019	3/18/2020	1/21/2020	5/7/2020	8/20/2019	10/8/2019	3/17/2020
Appendix III (40 CFR 257)								
pH	SU	4.89	4.88	4.99	5.20	5.85	5.91	5.97
Boron	mg/l	0.013 J	0.034 J	--	--	--	< -0.04	< 0.0049
Calcium	mg/l	128	149	--	--	--	115	66.8
Chloride	mg/l	4.5	3.8	--	--	--	4.9	4.4
Fluoride	mg/l	0.35	< 0.050	--	--	<0.029	<0.029	< 0.050
Sulfate	mg/l	1180	960	--	--	--	664	303
Total Dissolved Solids	mg/l	1680	1520	--	--	--	1050	588
Appendix IV (40 CFR 257)								
Antimony	mg/l	<0.00027	< 0.00027	--	--	<0.00027	<0.00027	< 0.00027
Arsenic	mg/l	0.0012 J	0.00080 J	--	--	0.00072 J	0.00056 J	< 0.00035
Barium	mg/l	0.015	0.015	--	--	0.06	0.054	0.031
Beryllium	mg/l	0.0022 J	0.0028 J	--	--	<0.000074	<0.000074	< 0.000074
Cadmium	mg/l	0.0011 J	0.0012 J	--	--	<0.00011	<0.00011	< 0.00011
Chromium	mg/l	0.0024 J	0.0023 J	--	--	0.0017 J	0.0014 J	0.0013 J
Cobalt	mg/l	0.00031 J	0.00044 J	--	--	<0.00030	<0.00030	< 0.00030
Lead	mg/l	0.000059 J	0.000079 J	--	--	<0.000046	<0.000046	< 0.000046
Lithium	mg/l	0.0014 J	0.0017 J	--	--	0.002 J	0.0021 J	0.0018 J
Mercury	mg/l	<0.00014	--	--	< 0.00014	<0.00014	<0.00014	NA
Molybdenum	mg/l	--	--	--	--	<0.00095	--	NA
Radium	pci/l	< 0.498 U	0.788 U	--	--	< 0.409 U	< 0.91 U	2.50
Selenium	mg/l	0.034	0.028	--	--	0.0039 J	0.0031 J	0.0026 J
Thallium	mg/l	<0.000052	< 0.000052	--	--	<0.000052	<0.000052	< 0.000052
Appendix I & II Metals (State Permit) ⁶								
Copper	mg/l	0.00087 J	0.00097 J	--	--	--	0.0011 J	0.00091 J
Nickel	mg/l	0.0019 J	0.0020 J	--	--	--	0.0021 J	0.0011 J
Silver	mg/l	<0.00028	< 0.00028	--	--	--	<0.00028	< 0.00028
Vanadium	mg/l	<0.00071	< 0.00071	--	--	--	<0.00071	0.00098 J
Zinc	mg/l	0.025	0.023	0.015	--	--	0.006 J	< 0.018

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 III = Indicator parameters evaluated during Detection Monitoring.
 3. Appendix IV = Parameters evaluated during Assessment Monitoring.
 4. The MCL used is the USEPA and Georgia Environmental Protection Division MCL.
 5. The SMCL was established by USEPA as guideline only and is not enforced.
 6. Appendix I parameter included to meet EPD Rule 391-3-4-.14 requirements that is not included in the Appendix IV parameter list
- Not analyzed for this constituent.
< Analyte was not detected above the laboratory method detection limit (MDL).
NA = Not applicable; analyte does not have an MCL, but will be further evaluated statistically, as required by the USEPA Coal Combustion Residuals rule.

Acronyms and Abbreviations:

MCL = Maximum Contaminant Level
SMCL = Secondary Maximum Contaminant Level
USEPA = United States Environmental Protection Agency

Laboratory Qualifiers:

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

**Table 7 - Background Levels and Groundwater Protection Standards
2020 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - Gypsum Landfill**

Constituent	Units	Background	Federal GWPS	State GWPS
October 2019				
Antimony	mg/L	0.003	0.006	0.006
Arsenic	mg/L	0.005	0.01	0.01
Barium	mg/L	0.083	2	2
Beryllium	mg/L	0.003	0.004	0.004
Cadmium	mg/L	0.001	0.005	0.005
Chromium	mg/L	0.01	0.1	0.1
Cobalt	mg/L	0.013 ¹	0.013 ¹	0.013
Fluoride	mg/L	0.23	4	4
Lead	mg/L	0.005	0.015	0.005
Lithium	mg/L	0.050	0.040	0.030
Mercury	mg/L	0.0005	0.002	0.002
Molybdenum	mg/L	0.01	0.1	0.01
Selenium	mg/L	0.015	0.050	0.050
Thallium	mg/L	0.001	0.002	0.002
Combined Radium - 226/228	pCi/L	2.72	5	5
March 2020				
Antimony	mg/L	0.003	0.006	0.006
Arsenic	mg/L	0.005	0.01	0.01
Barium	mg/L	0.079	2	2
Beryllium	mg/L	0.003	0.004	0.004
Cadmium	mg/L	0.001	0.005	0.005
Chromium	mg/L	0.01	0.1	0.1
Cobalt	mg/L	0.0068 ¹	0.0068 ¹	0.0068
Fluoride	mg/L	0.22	4	4
Lead	mg/L	0.005	0.015	0.005
Lithium	mg/L	0.030	0.040	0.030
Mercury	mg/L	0.0002	0.002	0.002
Molybdenum	mg/L	0.01	0.1	0.01
Selenium	mg/L	0.01	0.05	0.05
Thallium	mg/L	0.001	0.002	0.002
Combined Radium - 226/228	pCi/L	2.4	5	5

Notes

1. Background concentration is higher than the federally promulgated value (0.006); therefore background is the GWPS.

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

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

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

The background tolerance limit (TL) used to evaluate the lithium State GWPS equals the laboratory reporting limit (RL). Per the SAP, and in accordance with the Unified Guidance, a non-parametric limit approach was used since the data set contains greater than 50% non-detect results. Using this approach, the TL equals the highest value reported, which is the laboratory RL. The highest laboratory RL in background was 0.05 mg/L; however, the GWPS has been modified to be equal to the most recently used RL which is 0.03 mg/L.

Acronyms and Abbreviations:

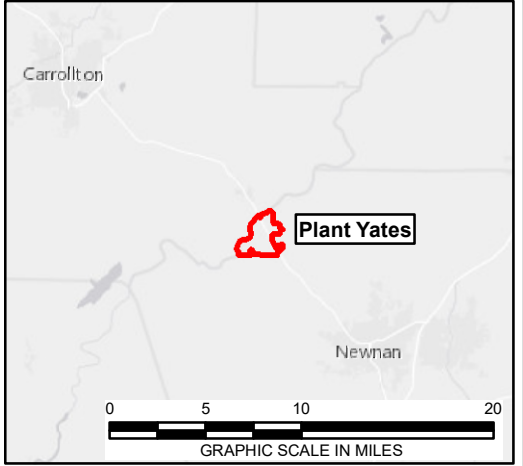
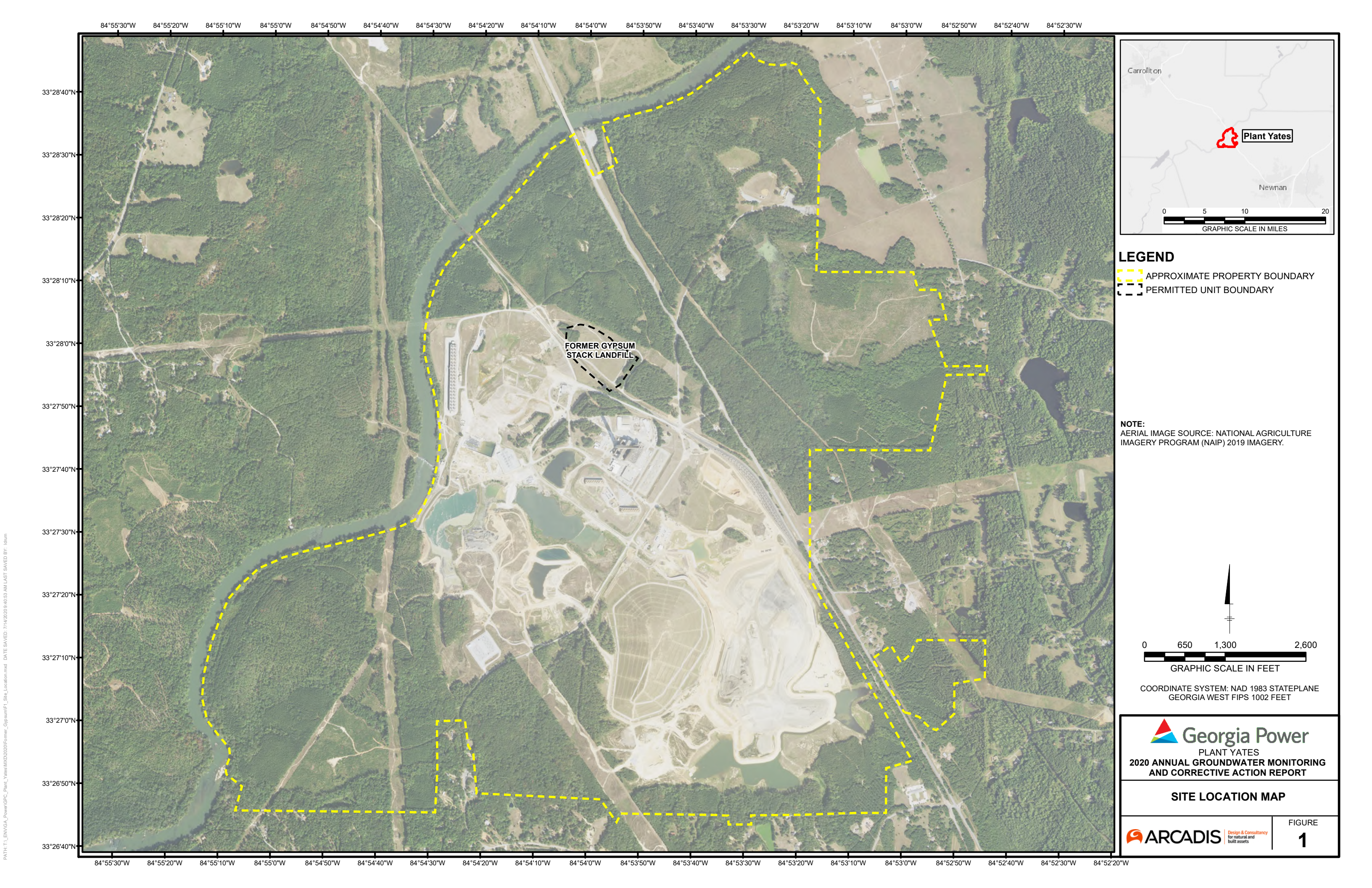
MCL - Maximum Contaminant Level

mg/L - milligrams per liter

pCi/L - picocuries per liter

FIGURES





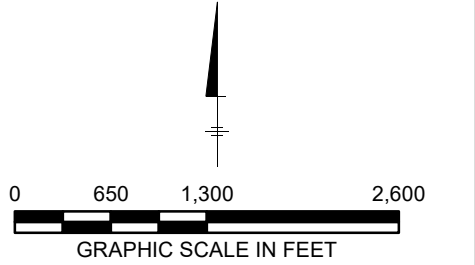
LEGEND

--- APPROXIMATE PROPERTY BOUNDARY

- - - PERMITTED UNIT BOUNDARY

FORMER GYPSUM
STACK LANDFILL

NOTE:
AERIAL IMAGE SOURCE: NATIONAL AGRICULTURE
IMAGERY PROGRAM (NAIP) 2019 IMAGERY.



COORDINATE SYSTEM: NAD 1983 STATEPLANE
GEORGIA WEST FIPS 1002 FEET

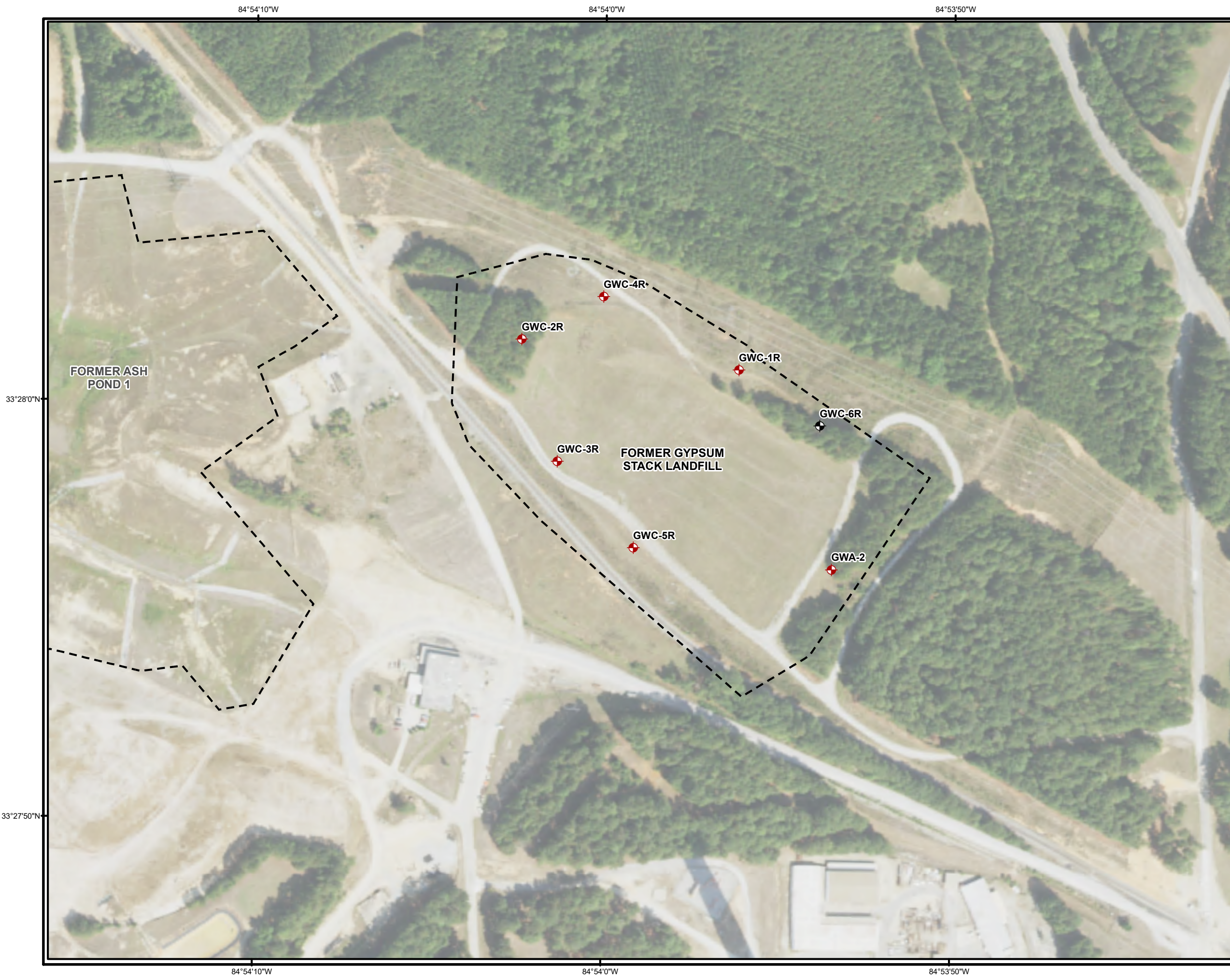
Georgia Power
PLANT YATES
2020 ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT

SITE LOCATION MAP




ARCADIS Design & Consultancy
for natural and
built assets

FIGURE
1

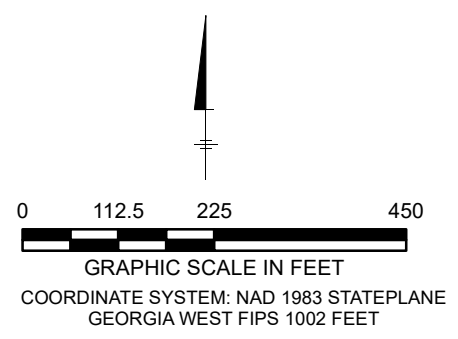
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LEGEND

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

NOTE:
 AERIAL IMAGE SOURCE: NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.



 **Georgia Power**
 PLANT YATES
 2020 ANNUAL GROUNDWATER MONITORING
 AND CORRECTIVE ACTION REPORT

WELL LOCATION MAP

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PATH: T:\ENVOA_Power\GPC_Plant_Yates\MD\2020\Former_Gypsum\PS_Well_Locations.mxd DATE SAVED: 7/14/2020 9:48:09 AM LAST SAVED BY: idrum

84°54'10"W

84°54'0"W

84°53'50"W

33°28'0"N







33°27'50"N

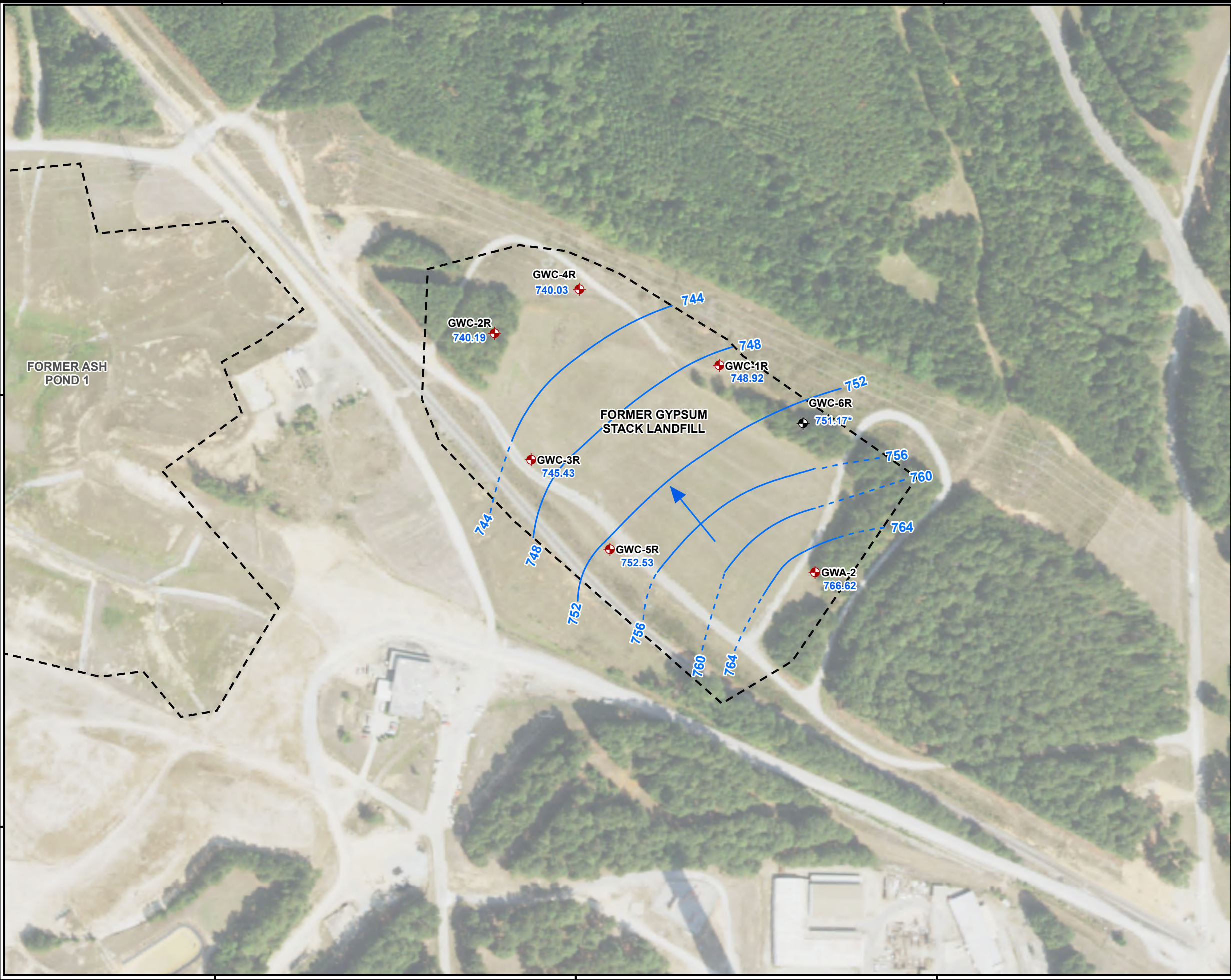
84°54'10"W

84°54'0"W

84°53'50"W

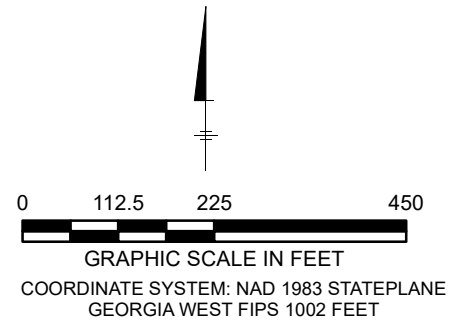
LEGEND

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



NOTES:

1. * = GROUNDWATER ELEVATION WAS NOT USED FOR POTENTIOMETRIC CONTOURING.
2. AERIAL IMAGE SOURCE: NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.



 **Georgia Power**
PLANT YATES
2020 ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT

GROUNDWATER ELEVATION MAP
AUGUST 19, 2019

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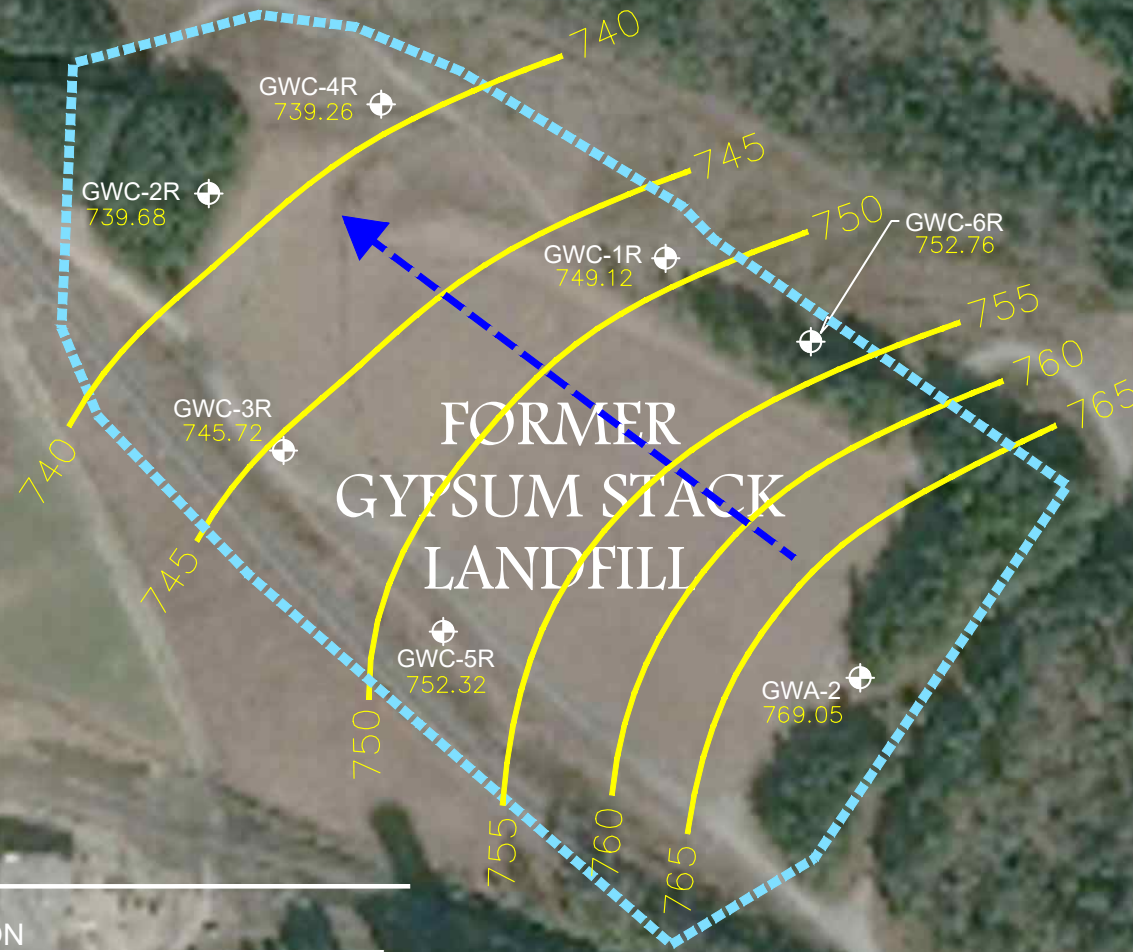
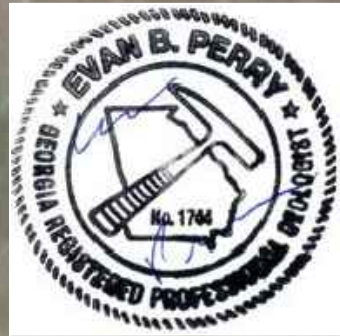
FIGURE
3

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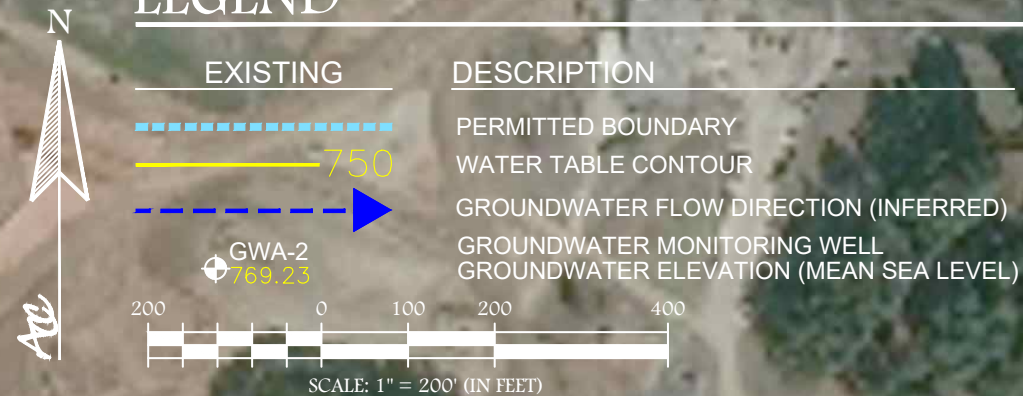
Groundwater Elevations and Well Depths
Plant Yates Gypsum Landfill October 2019

Monitoring Well ID	Well Depth (ft btoc)	Top of Casing (MSL)	Depth to Water (feet)	GW Elevation (MSL)
GWA-2	52.13	805.31	36.26	769.05
GWC-1R	36.34	773.28	24.16	749.12
GWC-2R	43.80	769.41	29.73	739.68
GWC-3R	38.33	775.28	29.56	745.72
GWC-4R	31.05	757.02	17.76	739.26
GWC-5R	42.80	782.54	30.22	752.32
GWC-6R	51.87	788.60	35.84	752.76

- Notes:
1. ft btoc - feet below top of casing.
 2. MSL = Mean Sea Level (NGVD 1929).
 3. Depths to water measured on October 7, 2019.



LEGEND



NOTE:
PREPARED BY ATLANTIC COAST CONSULTING, INC., FEBRUARY 2020; 2019 SEMI-ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT.



PLANT YATES
2020 ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT

GROUNDWATER ELEVATION MAP
OCTOBER 7, 2019



FIGURE
4

84°54'10"W

84°54'0"W

84°53'50"W

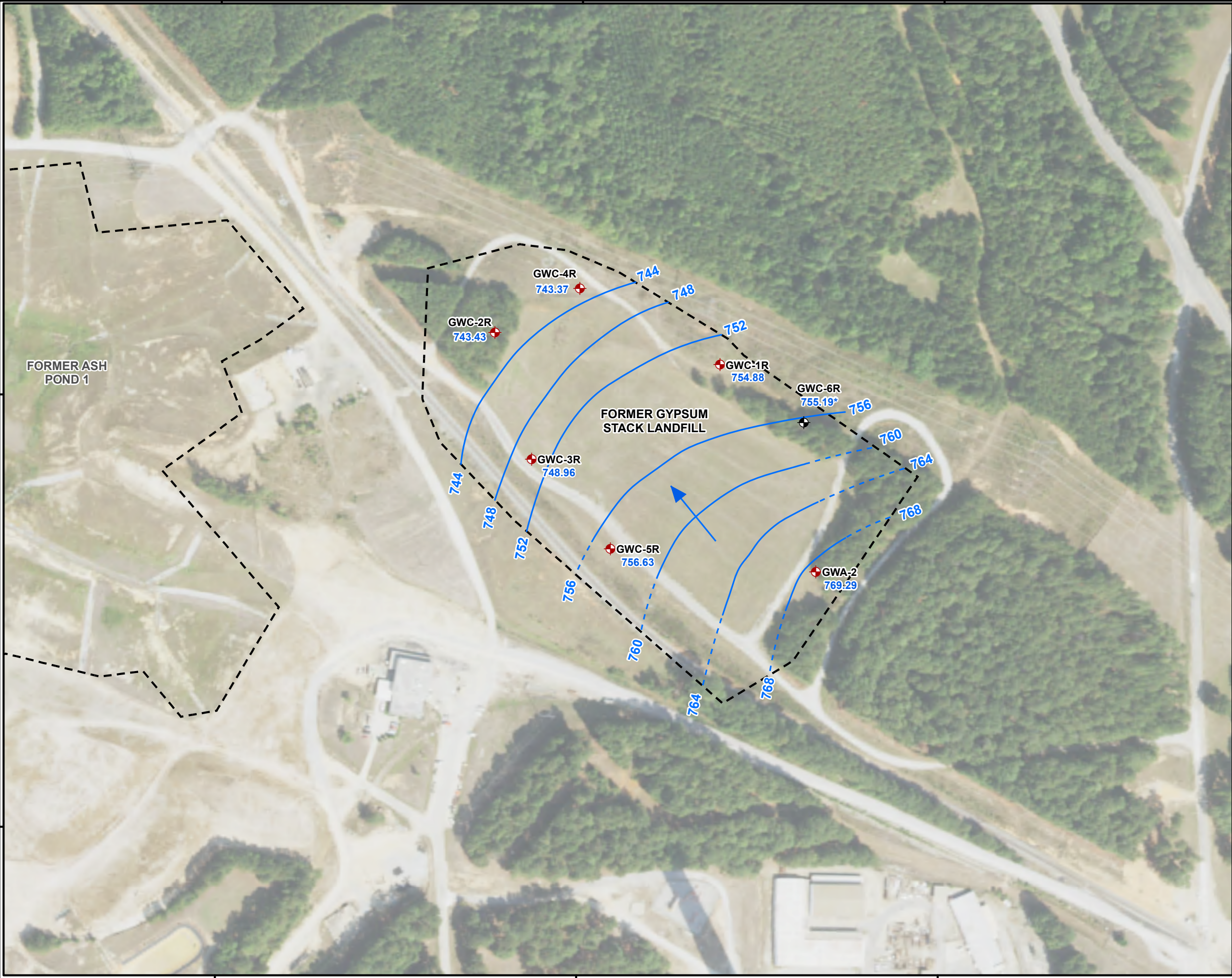
33°28'0"N

33°27'50"N

84°54'10"W

84°54'0"W

84°53'50"W

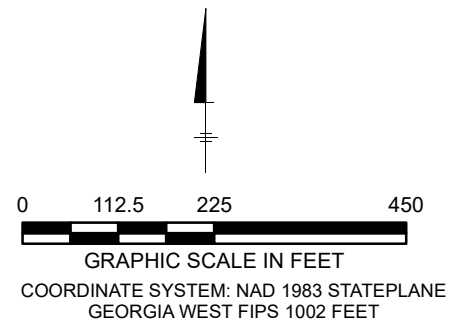


LEGEND

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

NOTES:

1. * = GROUNDWATER ELEVATION WAS NOT USED FOR POTENTIOMETRIC CONTOURING.
2. AERIAL IMAGE SOURCE: NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.



Georgia Power
PLANT YATES

2020 ANNUAL GROUNDWATER MONITORING
AND CORRECTIVE ACTION REPORT

GROUNDWATER ELEVATION MAP
MARCH 17, 2020

ARCADIS
Design & Consultancy
for natural and
built assets

FIGURE
5

PATH: T:\ENVOA_Power\GFC_Plant_Yates\MD\2020\Former_Gypsum\F5_GWE_Contours_March_2020.mxd DATE SAVED: 7/15/2020 4:14:58 PM LAST SAVED BY: lbrum

Appendix A

Laboratory Analytical and Data Validation Reports



August 2019

Initial Assessment Event



December 11, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Yates Gypsum Storage
Pace Project No.: 2622250

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on August 21, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This revised report replaces the report issued on 8/29/2019. The report has been revised to correct the project-required RLs per consultant request. No other changes have been made to this report.

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

Sincerely,



Kevin Herring for
Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Betsy McDaniel, Atlantic Coast Consulting
Chris Parker, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Yates Gypsum Storage

Pace Project No.: 2622250

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: Plant Yates Gypsum Storage
Pace Project No.: 2622250

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2622250001	GWA-2	Water	08/19/19 12:25	08/21/19 16:50
2622250002	GWC-1R	Water	08/20/19 10:10	08/21/19 16:50
2622250003	GWC-2R	Water	08/20/19 13:50	08/21/19 16:50
2622250004	GWC-3R	Water	08/21/19 12:50	08/21/19 16:50
2622250005	GWC-4R	Water	08/19/19 16:00	08/21/19 16:50
2622250006	GWC-5R	Water	08/21/19 10:45	08/21/19 16:50
2622250007	GWC-6R	Water	08/20/19 12:00	08/21/19 16:50
2622250008	EB-1-8-19-19	Water	08/19/19 15:30	08/21/19 16:50
2622250009	Dup-1	Water	08/20/19 00:00	08/21/19 16:50
2622250010	FB-1-8-20-19	Water	08/20/19 13:25	08/21/19 16:50

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SAMPLE ANALYTE COUNT

Project: Plant Yates Gypsum Storage

Pace Project No.: 2622250

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2622250001	GWA-2	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1
2622250002	GWC-1R	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1
2622250003	GWC-2R	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1
2622250004	GWC-3R	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1
2622250005	GWC-4R	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1
2622250006	GWC-5R	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1
2622250007	GWC-6R	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1
2622250008	EB-1-8-19-19	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1
2622250009	Dup-1	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1
2622250010	FB-1-8-20-19	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1

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ANALYTICAL RESULTS

Project: Plant Yates Gypsum Storage

Pace Project No.: 2622250

Sample: GWA-2		Lab ID: 2622250001		Collected: 08/19/19 12:25		Received: 08/21/19 16:50		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	08/23/19 14:17	08/26/19 17:47	7440-36-0		
Arsenic	0.00095J	mg/L	0.0050	0.00035	1	08/23/19 14:17	08/26/19 17:47	7440-38-2		
Barium	0.065	mg/L	0.010	0.00049	1	08/23/19 14:17	08/26/19 17:47	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	08/23/19 14:17	08/26/19 17:47	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00011	1	08/23/19 14:17	08/26/19 17:47	7440-43-9		
Chromium	ND	mg/L	0.010	0.00039	1	08/23/19 14:17	08/26/19 17:47	7440-47-3		
Cobalt	0.0035J	mg/L	0.0050	0.00030	1	08/23/19 14:17	08/26/19 17:47	7440-48-4		
Lead	ND	mg/L	0.0050	0.000046	1	08/23/19 14:17	08/26/19 17:47	7439-92-1		
Lithium	0.0019J	mg/L	0.030	0.00078	1	08/23/19 14:17	08/26/19 17:47	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	08/23/19 14:17	08/26/19 17:47	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	08/23/19 14:17	08/26/19 17:47	7782-49-2		
Thallium	0.000055J	mg/L	0.0010	0.000052	1	08/23/19 14:17	08/26/19 17:47	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00020	0.00014	1	08/26/19 14:21	08/27/19 11:23	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Fluoride	ND	mg/L	0.30	0.029	1		08/29/19 00:42	16984-48-8		

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ANALYTICAL RESULTS

Project: Plant Yates Gypsum Storage
Pace Project No.: 2622250

Sample: GWC-1R		Lab ID: 2622250002		Collected: 08/20/19 10:10		Received: 08/21/19 16:50		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	08/23/19 14:17	08/26/19 18:04	7440-36-0		
Arsenic	0.00044J	mg/L	0.0050	0.00035	1	08/23/19 14:17	08/26/19 18:04	7440-38-2		
Barium	0.070	mg/L	0.010	0.00049	1	08/23/19 14:17	08/26/19 18:04	7440-39-3		
Beryllium	0.00010J	mg/L	0.0030	0.000074	1	08/23/19 14:17	08/26/19 18:04	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00011	1	08/23/19 14:17	08/26/19 18:04	7440-43-9		
Chromium	0.0011J	mg/L	0.010	0.00039	1	08/23/19 14:17	08/26/19 18:04	7440-47-3		
Cobalt	0.00079J	mg/L	0.0050	0.00030	1	08/23/19 14:17	08/26/19 18:04	7440-48-4		
Lead	ND	mg/L	0.0050	0.000046	1	08/23/19 14:17	08/26/19 18:04	7439-92-1		
Lithium	0.0012J	mg/L	0.030	0.00078	1	08/23/19 14:17	08/26/19 18:04	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	08/23/19 14:17	08/26/19 18:04	7439-98-7		
Selenium	0.0022J	mg/L	0.010	0.0013	1	08/23/19 14:17	08/26/19 18:04	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	08/23/19 14:17	08/26/19 18:04	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00020	0.00014	1	08/26/19 14:21	08/27/19 11:25	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Fluoride	ND	mg/L	0.30	0.029	1		08/29/19 02:12	16984-48-8		

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ANALYTICAL RESULTS

Project: Plant Yates Gypsum Storage
Pace Project No.: 2622250

Sample: GWC-2R		Lab ID: 2622250003		Collected: 08/20/19 13:50		Received: 08/21/19 16:50		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	08/23/19 14:17	08/26/19 18:10	7440-36-0		
Arsenic	0.00075J	mg/L	0.0050	0.00035	1	08/23/19 14:17	08/26/19 18:10	7440-38-2		
Barium	0.050	mg/L	0.010	0.00049	1	08/23/19 14:17	08/26/19 18:10	7440-39-3		
Beryllium	0.00017J	mg/L	0.0030	0.000074	1	08/23/19 14:17	08/26/19 18:10	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00011	1	08/23/19 14:17	08/26/19 18:10	7440-43-9		
Chromium	ND	mg/L	0.010	0.00039	1	08/23/19 14:17	08/26/19 18:10	7440-47-3		
Cobalt	0.014	mg/L	0.0050	0.00030	1	08/23/19 14:17	08/26/19 18:10	7440-48-4		
Lead	0.000061J	mg/L	0.0050	0.000046	1	08/23/19 14:17	08/26/19 18:10	7439-92-1		
Lithium	0.0043J	mg/L	0.030	0.00078	1	08/23/19 14:17	08/26/19 18:10	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	08/23/19 14:17	08/26/19 18:10	7439-98-7		
Selenium	0.0032J	mg/L	0.010	0.0013	1	08/23/19 14:17	08/26/19 18:10	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	08/23/19 14:17	08/26/19 18:10	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00020	0.00014	1	08/26/19 14:21	08/27/19 11:27	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Fluoride	ND	mg/L	0.30	0.029	1		08/29/19 02:35	16984-48-8		

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ANALYTICAL RESULTS

Project: Plant Yates Gypsum Storage
Pace Project No.: 2622250

Sample: GWC-3R		Lab ID: 2622250004		Collected: 08/21/19 12:50		Received: 08/21/19 16:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	08/23/19 14:17	08/26/19 18:15	7440-36-0	
Arsenic	0.00061J	mg/L	0.0050	0.00035	1	08/23/19 14:17	08/26/19 18:15	7440-38-2	
Barium	0.020	mg/L	0.010	0.00049	1	08/23/19 14:17	08/26/19 18:15	7440-39-3	
Beryllium	0.00046J	mg/L	0.0030	0.000074	1	08/23/19 14:17	08/26/19 18:15	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00011	1	08/23/19 14:17	08/26/19 18:15	7440-43-9	
Chromium	0.0010J	mg/L	0.010	0.00039	1	08/23/19 14:17	08/26/19 18:15	7440-47-3	
Cobalt	0.0016J	mg/L	0.0050	0.00030	1	08/23/19 14:17	08/26/19 18:15	7440-48-4	
Lead	0.00082J	mg/L	0.0050	0.000046	1	08/23/19 14:17	08/26/19 18:15	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	08/23/19 14:17	08/26/19 18:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	08/23/19 14:17	08/26/19 18:15	7439-98-7	
Selenium	0.0040J	mg/L	0.010	0.0013	1	08/23/19 14:17	08/26/19 18:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	08/23/19 14:17	08/26/19 18:15	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	08/26/19 14:21	08/27/19 11:30	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Fluoride	0.037J	mg/L	0.30	0.029	1		08/29/19 03:20	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant Yates Gypsum Storage
Pace Project No.: 2622250

Sample: GWC-4R		Lab ID: 2622250005		Collected: 08/19/19 16:00		Received: 08/21/19 16:50		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	08/23/19 14:17	08/26/19 18:21	7440-36-0		
Arsenic	0.00059J	mg/L	0.0050	0.00035	1	08/23/19 14:17	08/26/19 18:21	7440-38-2		
Barium	0.020	mg/L	0.010	0.00049	1	08/23/19 14:17	08/26/19 18:21	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	08/23/19 14:17	08/26/19 18:21	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00011	1	08/23/19 14:17	08/26/19 18:21	7440-43-9		
Chromium	0.00051J	mg/L	0.010	0.00039	1	08/23/19 14:17	08/26/19 18:21	7440-47-3		
Cobalt	0.0010J	mg/L	0.0050	0.00030	1	08/23/19 14:17	08/26/19 18:21	7440-48-4		
Lead	ND	mg/L	0.0050	0.000046	1	08/23/19 14:17	08/26/19 18:21	7439-92-1		
Lithium	0.00094J	mg/L	0.030	0.00078	1	08/23/19 14:17	08/26/19 18:21	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	08/23/19 14:17	08/26/19 18:21	7439-98-7		
Selenium	0.0030J	mg/L	0.010	0.0013	1	08/23/19 14:17	08/26/19 18:21	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	08/23/19 14:17	08/26/19 18:21	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00020	0.00014	1	08/26/19 14:21	08/27/19 11:32	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Fluoride	ND	mg/L	0.30	0.029	1		08/29/19 03:43	16984-48-8		

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ANALYTICAL RESULTS

Project: Plant Yates Gypsum Storage

Pace Project No.: 2622250

Sample: GWC-5R		Lab ID: 2622250006		Collected: 08/21/19 10:45		Received: 08/21/19 16:50		Matrix: Water	
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	0.00054J	mg/L	0.0030	0.00027	1	08/23/19 14:17	08/26/19 18:44	7440-36-0	
Arsenic	0.00094J	mg/L	0.0050	0.00035	1	08/23/19 14:17	08/26/19 18:44	7440-38-2	
Barium	0.014	mg/L	0.010	0.00049	1	08/23/19 14:17	08/26/19 18:44	7440-39-3	
Beryllium	0.0028J	mg/L	0.0030	0.000074	1	08/23/19 14:17	08/26/19 18:44	7440-41-7	
Cadmium	0.0012J	mg/L	0.0025	0.00011	1	08/23/19 14:17	08/26/19 18:44	7440-43-9	
Chromium	0.0024J	mg/L	0.010	0.00039	1	08/23/19 14:17	08/26/19 18:44	7440-47-3	
Cobalt	0.00034J	mg/L	0.0050	0.00030	1	08/23/19 14:17	08/26/19 18:44	7440-48-4	
Lead	0.000070J	mg/L	0.0050	0.000046	1	08/23/19 14:17	08/26/19 18:44	7439-92-1	
Lithium	0.0015J	mg/L	0.030	0.00078	1	08/23/19 14:17	08/26/19 18:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	08/23/19 14:17	08/26/19 18:44	7439-98-7	
Selenium	0.037	mg/L	0.010	0.0013	1	08/23/19 14:17	08/26/19 18:44	7782-49-2	
Thallium	0.000053J	mg/L	0.0010	0.000052	1	08/23/19 14:17	08/26/19 18:44	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00020	0.00014	1	08/26/19 14:21	08/27/19 11:35	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Fluoride	ND	mg/L	0.30	0.029	1		08/29/19 04:05	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant Yates Gypsum Storage
Pace Project No.: 2622250

Sample: GWC-6R		Lab ID: 2622250007		Collected: 08/20/19 12:00		Received: 08/21/19 16:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	08/23/19 14:17	08/26/19 18:50	7440-36-0	
Arsenic	0.00072J	mg/L	0.0050	0.00035	1	08/23/19 14:17	08/26/19 18:50	7440-38-2	
Barium	0.060	mg/L	0.010	0.00049	1	08/23/19 14:17	08/26/19 18:50	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	08/23/19 14:17	08/26/19 18:50	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00011	1	08/23/19 14:17	08/26/19 18:50	7440-43-9	
Chromium	0.0017J	mg/L	0.010	0.00039	1	08/23/19 14:17	08/26/19 18:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	08/23/19 14:17	08/26/19 18:50	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	08/23/19 14:17	08/26/19 18:50	7439-92-1	
Lithium	0.0020J	mg/L	0.030	0.00078	1	08/23/19 14:17	08/26/19 18:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	08/23/19 14:17	08/26/19 18:50	7439-98-7	
Selenium	0.0039J	mg/L	0.010	0.0013	1	08/23/19 14:17	08/26/19 18:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	08/23/19 14:17	08/26/19 18:50	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00020	0.00014	1	08/26/19 14:21	08/27/19 11:37	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Fluoride	ND	mg/L	0.30	0.029	1		08/29/19 04:28	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Gypsum Storage
Pace Project No.: 2622250

Sample: EB-1-8-19-19		Lab ID: 2622250008		Collected: 08/19/19 15:30		Received: 08/21/19 16:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	08/23/19 14:17	08/26/19 18:55	7440-36-0	
Arsenic	0.00063J	mg/L	0.0050	0.00035	1	08/23/19 14:17	08/26/19 18:55	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	08/23/19 14:17	08/26/19 18:55	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	08/23/19 14:17	08/26/19 18:55	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00011	1	08/23/19 14:17	08/26/19 18:55	7440-43-9	
Chromium	0.0022J	mg/L	0.010	0.00039	1	08/23/19 14:17	08/26/19 18:55	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	08/23/19 14:17	08/26/19 18:55	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	08/23/19 14:17	08/26/19 18:55	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	08/23/19 14:17	08/26/19 18:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	08/23/19 14:17	08/26/19 18:55	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	08/23/19 14:17	08/26/19 18:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	08/23/19 14:17	08/26/19 18:55	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00020	0.00014	1	08/26/19 14:21	08/27/19 11:44	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Fluoride	ND	mg/L	0.30	0.029	1		08/29/19 04:51	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Gypsum Storage
Pace Project No.: 2622250

Sample: Dup-1		Lab ID: 2622250009		Collected: 08/20/19 00:00		Received: 08/21/19 16:50		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	08/23/19 14:17	08/26/19 19:13	7440-36-0		
Arsenic	0.00069J	mg/L	0.0050	0.00035	1	08/23/19 14:17	08/26/19 19:13	7440-38-2		
Barium	0.057	mg/L	0.010	0.00049	1	08/23/19 14:17	08/26/19 19:13	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	08/23/19 14:17	08/26/19 19:13	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00011	1	08/23/19 14:17	08/26/19 19:13	7440-43-9		
Chromium	0.0016J	mg/L	0.010	0.00039	1	08/23/19 14:17	08/26/19 19:13	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	08/23/19 14:17	08/26/19 19:13	7440-48-4		
Lead	ND	mg/L	0.0050	0.000046	1	08/23/19 14:17	08/26/19 19:13	7439-92-1		
Lithium	0.0021J	mg/L	0.030	0.00078	1	08/23/19 14:17	08/26/19 19:13	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	08/23/19 14:17	08/26/19 19:13	7439-98-7		
Selenium	0.0043J	mg/L	0.010	0.0013	1	08/23/19 14:17	08/26/19 19:13	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	08/23/19 14:17	08/26/19 19:13	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00020	0.00014	1	08/26/19 14:21	08/27/19 11:46	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Fluoride	ND	mg/L	0.30	0.029	1		08/29/19 05:13	16984-48-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Gypsum Storage
Pace Project No.: 2622250

Sample: FB-1-8-20-19		Lab ID: 2622250010		Collected: 08/20/19 13:25		Received: 08/21/19 16:50		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	08/23/19 14:17	08/26/19 19:18	7440-36-0	
Arsenic	0.00051J	mg/L	0.0050	0.00035	1	08/23/19 14:17	08/26/19 19:18	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	08/23/19 14:17	08/26/19 19:18	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	08/23/19 14:17	08/26/19 19:18	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00011	1	08/23/19 14:17	08/26/19 19:18	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	08/23/19 14:17	08/26/19 19:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	08/23/19 14:17	08/26/19 19:18	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	08/23/19 14:17	08/26/19 19:18	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	08/23/19 14:17	08/26/19 19:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	08/23/19 14:17	08/26/19 19:18	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	08/23/19 14:17	08/26/19 19:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	08/23/19 14:17	08/26/19 19:18	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00020	0.00014	1	08/26/19 14:21	08/27/19 11:49	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Fluoride	ND	mg/L	0.30	0.029	1		08/29/19 05:36	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Gypsum Storage
Pace Project No.: 2622250

QC Batch: 34231 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 2622250001, 2622250002, 2622250003, 2622250004, 2622250005, 2622250006, 2622250007, 2622250008, 2622250009, 2622250010

METHOD BLANK: 154028 Matrix: Water
Associated Lab Samples: 2622250001, 2622250002, 2622250003, 2622250004, 2622250005, 2622250006, 2622250007, 2622250008, 2622250009, 2622250010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00014	08/27/19 10:49	

LABORATORY CONTROL SAMPLE: 154029

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 154030 154031

Parameter	Units	2622246001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0026	0.0025	103	99	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Gypsum Storage
Pace Project No.: 2622250

QC Batch: 34176 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2622250001, 2622250002, 2622250003, 2622250004, 2622250005, 2622250006, 2622250007, 2622250008, 2622250009, 2622250010

METHOD BLANK: 153777 Matrix: Water
Associated Lab Samples: 2622250001, 2622250002, 2622250003, 2622250004, 2622250005, 2622250006, 2622250007, 2622250008, 2622250009, 2622250010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	08/26/19 16:54	
Arsenic	mg/L	ND	0.0050	0.00035	08/26/19 16:54	
Barium	mg/L	ND	0.010	0.00049	08/26/19 16:54	
Beryllium	mg/L	ND	0.0030	0.000074	08/26/19 16:54	
Cadmium	mg/L	ND	0.0025	0.00011	08/26/19 16:54	
Chromium	mg/L	ND	0.010	0.00039	08/26/19 16:54	
Cobalt	mg/L	ND	0.0050	0.00030	08/26/19 16:54	
Lead	mg/L	ND	0.0050	0.000046	08/26/19 16:54	
Lithium	mg/L	ND	0.030	0.00078	08/26/19 16:54	
Molybdenum	mg/L	ND	0.010	0.00095	08/26/19 16:54	
Selenium	mg/L	ND	0.010	0.0013	08/26/19 16:54	
Thallium	mg/L	ND	0.0010	0.000052	08/26/19 16:54	

LABORATORY CONTROL SAMPLE: 153778

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 153779 153780

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2622250005	Spike Conc.	Spike Conc.	Result								
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	100	101	75-125	1	20		
Arsenic	mg/L	0.00059J	0.1	0.1	0.098	0.098	97	98	75-125	1	20		
Barium	mg/L	0.020	0.1	0.1	0.12	0.12	95	96	75-125	1	20		
Beryllium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20		

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QUALITY CONTROL DATA

Project: Plant Yates Gypsum Storage

Pace Project No.: 2622250

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 153779		153780		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		2622250005 Result	MS Spike Conc.	MSD Spike Conc.									
Cadmium	mg/L	ND	0.1	0.1	0.098	0.10	98	100	75-125	2	20		
Chromium	mg/L	0.00051J	0.1	0.1	0.10	0.10	101	100	75-125	1	20		
Cobalt	mg/L	0.0010J	0.1	0.1	0.10	0.10	100	99	75-125	0	20		
Lead	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	0	20		
Lithium	mg/L	0.00094J	0.1	0.1	0.096	0.096	95	95	75-125	0	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20		
Selenium	mg/L	0.0030J	0.1	0.1	0.098	0.10	95	97	75-125	2	20		
Thallium	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20		

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QUALITY CONTROL DATA

Project: Plant Yates Gypsum Storage
Pace Project No.: 2622250

QC Batch: 34413 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2622250001, 2622250002, 2622250003, 2622250004, 2622250005, 2622250006, 2622250007, 2622250008, 2622250009, 2622250010

METHOD BLANK: 154817 Matrix: Water
Associated Lab Samples: 2622250001, 2622250002, 2622250003, 2622250004, 2622250005, 2622250006, 2622250007, 2622250008, 2622250009, 2622250010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.30	0.029	08/28/19 20:32	

LABORATORY CONTROL SAMPLE: 154818

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	10	9.5	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 154819 154820

Parameter	Units	2622246001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	10	10	9.9	9.8	99	98	90-110	1	15	

MATRIX SPIKE SAMPLE: 154821

Parameter	Units	2622246002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	ND	10	9.7	97	90-110	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Yates Gypsum Storage

Pace Project No.: 2622250

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.

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.

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

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Gypsum Storage
Pace Project No.: 2622250

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2622250001	GWA-2	EPA 3005A	34176	EPA 6020B	34193
2622250002	GWC-1R	EPA 3005A	34176	EPA 6020B	34193
2622250003	GWC-2R	EPA 3005A	34176	EPA 6020B	34193
2622250004	GWC-3R	EPA 3005A	34176	EPA 6020B	34193
2622250005	GWC-4R	EPA 3005A	34176	EPA 6020B	34193
2622250006	GWC-5R	EPA 3005A	34176	EPA 6020B	34193
2622250007	GWC-6R	EPA 3005A	34176	EPA 6020B	34193
2622250008	EB-1-8-19-19	EPA 3005A	34176	EPA 6020B	34193
2622250009	Dup-1	EPA 3005A	34176	EPA 6020B	34193
2622250010	FB-1-8-20-19	EPA 3005A	34176	EPA 6020B	34193
2622250001	GWA-2	EPA 7470A	34231	EPA 7470A	34309
2622250002	GWC-1R	EPA 7470A	34231	EPA 7470A	34309
2622250003	GWC-2R	EPA 7470A	34231	EPA 7470A	34309
2622250004	GWC-3R	EPA 7470A	34231	EPA 7470A	34309
2622250005	GWC-4R	EPA 7470A	34231	EPA 7470A	34309
2622250006	GWC-5R	EPA 7470A	34231	EPA 7470A	34309
2622250007	GWC-6R	EPA 7470A	34231	EPA 7470A	34309
2622250008	EB-1-8-19-19	EPA 7470A	34231	EPA 7470A	34309
2622250009	Dup-1	EPA 7470A	34231	EPA 7470A	34309
2622250010	FB-1-8-20-19	EPA 7470A	34231	EPA 7470A	34309
2622250001	GWA-2	EPA 300.0	34413		
2622250002	GWC-1R	EPA 300.0	34413		
2622250003	GWC-2R	EPA 300.0	34413		
2622250004	GWC-3R	EPA 300.0	34413		
2622250005	GWC-4R	EPA 300.0	34413		
2622250006	GWC-5R	EPA 300.0	34413		
2622250007	GWC-6R	EPA 300.0	34413		
2622250008	EB-1-8-19-19	EPA 300.0	34413		
2622250009	Dup-1	EPA 300.0	34413		
2622250010	FB-1-8-20-19	EPA 300.0	34413		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
(770) 734-4200 : FAX (770) 734-4201

CHAIN OF CUSTODY RECORD

CLIENT NAME: Georgia Power

CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:
241 Ralph McGill Blvd SE B10185
Atlanta, GA 30308
404-506-7239

REPORT TO: Jojiu Abraham

REQUESTED COMPLETION DATE: PO #:

PROJECT NAME/STATE: Plant Yates Gypsum Storage

PROJECT #:

Collection DATE	Collection TIME	MATRIX CODE*	C O M P	SAMPLE IDENTIFICATION	CONTAINER TYPE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	
8-14-19	1225	GW	V	GWA-2	Flouide	3	7	3															
8-20-19	1010	GW	V	GWLC-1R	(EPA 6020/7470) Metals App. IV	3	7	3															
8-20-19	1350	GW	V	GWLC-2R	Radium 226 & 228 (SW-846 9315/9320)	3	7	3															
8-21-19	1250	GW	V	GWLC-3R																			
8-19-19	1600	GW	V	GWLC-4R																			
8-21-19	1645	GW	V	GWLC-5R																			
8-20-19	1200	GW	V	GWLC-6B																			
8-19-19	1530	W	V	FB-1-8-19-19																			
8-20-19	---	GW	V	DuP-1																			
8-20-19	1325	W	V	FB-1-8-20-19																			

CONTAINER TYPE:
P - PLASTIC
A - AMBER GLASS
G - CLEAR GLASS
V - VOA VIAL
S - STERILE
O - OTHER

PRESERVATION:
1 - HCl, ≤6°C
2 - H₂SO₄, ≤6°C
3 - HNO₃
4 - NaOH, ≤6°C
5 - NaOH/ZnAc, ≤6°C
6 - Na₂S₂O₃, ≤6°C
7 - ≤6°C not frozen

MATRIX CODES:
DW - DRINKING WATER
WW - WASTEWATER
GW - GROUNDWATER
SW - SURFACE WATER
ST - STORM WATER
W - WATER
S - SOIL
SL - SLUDGE
SD - SOLID
A - AIR
L - LIQUID
P - PRODUCT

REMARKS/ADDITIONAL INFORMATION:

NO# : 2622250

2622250

RELINQUISHED BY: *[Signature]* **DATE/TIME:** 8-21-19 / 1658

RELINQUISHED BY: *[Signature]* **DATE/TIME:**

SAMPLE SHIPPED VIA: UPS FED-EX USPS COURIER OTHER FS

DATE/TIME: 08/21/19 1650

TEMPERATURE: Mit: 2.0 Max:

RECEIVED BY LAB: *[Signature]*

RECEIVED BY: *[Signature]* **DATE/TIME:** See above

ENTERED INTO LIMS:

TRACKING #:

Yates - Gypsum Storage - Blank COCs

Sample Condition Upon Receipt



Client Name: GLA Power

Project # _____

WO#: 2622250

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

PM: **BM**

Due Date: **08/28/19**

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

CLIENT: **GAPower-CCR**

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 83

Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

Cooler Temperature 2'0

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 8/21/19 MR

Temp should be above freezing to 6°C

Comments: _____

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.	
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.	
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.	
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.	
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.	
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.	
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.	
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.	
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.	
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.	
-Includes date/time/ID/Analysis Matrix:	<u>W</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.	
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed	Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.	
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.	
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if purchased):			

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

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

September 19, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

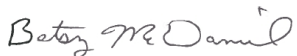
RE: Project: Plant Yates Gypsum Storage
Pace Project No.: 2622251

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on August 21, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Chris Parker, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Yates Gypsum Storage

Pace Project No.: 2622251

Pennsylvania Certification IDs

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

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Yates Gypsum Storage

Pace Project No.: 2622251

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2622251001	GWA-2	Water	08/19/19 12:25	08/21/19 16:50
2622251002	GWC-1R	Water	08/20/19 10:10	08/21/19 16:50
2622251003	GWC-2R	Water	08/20/19 13:50	08/21/19 16:50
2622251004	GWC-3R	Water	08/21/19 12:50	08/21/19 16:50
2622251005	GWC-4R	Water	08/19/19 16:00	08/21/19 16:50
2622251006	GWC-5R	Water	08/21/19 10:45	08/21/19 16:50
2622251007	GWC-6R	Water	08/20/19 12:00	08/21/19 16:50
2622251008	EB-1-8-19-19	Water	08/19/19 15:30	08/21/19 16:50
2622251009	Dup-1	Water	08/20/19 00:00	08/21/19 16:50
2622251010	FB-1-8-20-19	Water	08/20/19 13:25	08/21/19 16:50

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SAMPLE ANALYTE COUNT

Project: Plant Yates Gypsum Storage
Pace Project No.: 2622251

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2622251001	GWA-2	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2622251002	GWC-1R	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2622251003	GWC-2R	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2622251004	GWC-3R	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2622251005	GWC-4R	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2622251006	GWC-5R	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2622251007	GWC-6R	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2622251008	EB-1-8-19-19	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2622251009	Dup-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2622251010	FB-1-8-20-19	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum Storage

Pace Project No.: 2622251

Sample: GWA-2 **Lab ID: 2622251001** Collected: 08/19/19 12:25 Received: 08/21/19 16:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.729 ± 0.340 (0.387) C:91% T:NA	pCi/L	09/05/19 08:30	13982-63-3	
Radium-228	EPA 9320	0.662 ± 0.429 (0.809) C:67% T:83%	pCi/L	09/16/19 12:47	15262-20-1	
Total Radium	Total Radium Calculation	1.39 ± 0.769 (1.20)	pCi/L	09/17/19 14:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum Storage

Pace Project No.: 2622251

Sample: GWC-1R **Lab ID: 2622251002** Collected: 08/20/19 10:10 Received: 08/21/19 16:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.606 ± 0.312 (0.390) C:95% T:NA	pCi/L	09/05/19 08:30	13982-63-3	
Radium-228	EPA 9320	0.643 ± 0.449 (0.872) C:66% T:87%	pCi/L	09/16/19 12:47	15262-20-1	
Total Radium	Total Radium Calculation	1.25 ± 0.761 (1.26)	pCi/L	09/17/19 14:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum Storage

Pace Project No.: 2622251

Sample: GWC-2R **Lab ID: 2622251003** Collected: 08/20/19 13:50 Received: 08/21/19 16:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.849 ± 0.360 (0.318) C:94% T:NA	pCi/L	09/05/19 08:04	13982-63-3	
Radium-228	EPA 9320	0.370 ± 0.395 (0.823) C:70% T:82%	pCi/L	09/16/19 12:48	15262-20-1	
Total Radium	Total Radium Calculation	1.22 ± 0.755 (1.14)	pCi/L	09/17/19 14:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum Storage

Pace Project No.: 2622251

Sample: GWC-3R **Lab ID: 2622251004** Collected: 08/21/19 12:50 Received: 08/21/19 16:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.625 ± 0.374 (0.602) C:90% T:NA	pCi/L	09/05/19 08:05	13982-63-3	
Radium-228	EPA 9320	0.149 ± 0.499 (1.12) C:69% T:72%	pCi/L	09/16/19 12:48	15262-20-1	
Total Radium	Total Radium Calculation	0.774 ± 0.873 (1.72)	pCi/L	09/17/19 14:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum Storage

Pace Project No.: 2622251

Sample: GWC-4R **Lab ID: 2622251005** Collected: 08/19/19 16:00 Received: 08/21/19 16:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.232 ± 0.223 (0.402) C:93% T:NA	pCi/L	09/05/19 08:05	13982-63-3	
Radium-228	EPA 9320	0.405 ± 0.422 (0.877) C:71% T:79%	pCi/L	09/16/19 12:48	15262-20-1	
Total Radium	Total Radium Calculation	0.637 ± 0.645 (1.28)	pCi/L	09/17/19 14:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum Storage

Pace Project No.: 2622251

Sample: GWC-5R **Lab ID: 2622251006** Collected: 08/21/19 10:45 Received: 08/21/19 16:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.358 ± 0.280 (0.492) C:96% T:NA	pCi/L	09/05/19 08:05	13982-63-3	
Radium-228	EPA 9320	1.46 ± 0.590 (0.939) C:60% T:89%	pCi/L	09/16/19 12:48	15262-20-1	
Total Radium	Total Radium Calculation	1.82 ± 0.870 (1.43)	pCi/L	09/17/19 14:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum Storage

Pace Project No.: 2622251

Sample: GWC-6R **Lab ID: 2622251007** Collected: 08/20/19 12:00 Received: 08/21/19 16:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.406 ± 0.336 (0.616) C:76% T:NA	pCi/L	09/05/19 08:05	13982-63-3	
Radium-228	EPA 9320	0.00258 ± 0.419 (0.972) C:63% T:81%	pCi/L	09/16/19 12:48	15262-20-1	
Total Radium	Total Radium Calculation	0.409 ± 0.755 (1.59)	pCi/L	09/17/19 14:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum Storage

Pace Project No.: 2622251

Sample: EB-1-8-19-19 **Lab ID: 2622251008** Collected: 08/19/19 15:30 Received: 08/21/19 16:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.304 ± 0.259 (0.465) C:94% T:NA	pCi/L	09/05/19 08:05	13982-63-3	
Radium-228	EPA 9320	0.349 ± 0.458 (0.977) C:66% T:74%	pCi/L	09/16/19 12:48	15262-20-1	
Total Radium	Total Radium Calculation	0.653 ± 0.717 (1.44)	pCi/L	09/17/19 14:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum Storage

Pace Project No.: 2622251

Sample: Dup-1 **Lab ID: 2622251009** Collected: 08/20/19 00:00 Received: 08/21/19 16:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.360 ± 0.306 (0.578) C:93% T:NA	pCi/L	09/05/19 08:05	13982-63-3	
Radium-228	EPA 9320	0.652 ± 0.441 (0.849) C:65% T:90%	pCi/L	09/16/19 12:48	15262-20-1	
Total Radium	Total Radium Calculation	1.01 ± 0.747 (1.43)	pCi/L	09/17/19 14:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum Storage

Pace Project No.: 2622251

Sample: FB-1-8-20-19 **Lab ID: 2622251010** Collected: 08/20/19 13:25 Received: 08/21/19 16:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.0279 ± 0.190 (0.494) C:96% T:NA	pCi/L	09/05/19 08:05	13982-63-3	
Radium-228	EPA 9320	0.0490 ± 0.427 (0.976) C:74% T:74%	pCi/L	09/16/19 12:48	15262-20-1	
Total Radium	Total Radium Calculation	0.0769 ± 0.617 (1.47)	pCi/L	09/17/19 14:15	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Gypsum Storage

Pace Project No.: 2622251

QC Batch:	359489	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
Associated Lab Samples:	2622251001, 2622251002, 2622251003, 2622251004, 2622251005, 2622251006, 2622251007, 2622251008, 2622251009, 2622251010		

METHOD BLANK:	1745578	Matrix:	Water
Associated Lab Samples:	2622251001, 2622251002, 2622251003, 2622251004, 2622251005, 2622251006, 2622251007, 2622251008, 2622251009, 2622251010		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.402 ± 0.246 (0.327) C:100% T:NA	pCi/L	09/05/19 08:30	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Gypsum Storage

Pace Project No.: 2622251

QC Batch:	358894	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
Associated Lab Samples:	2622251001, 2622251002, 2622251003, 2622251004, 2622251005, 2622251006, 2622251007, 2622251008, 2622251009, 2622251010		

METHOD BLANK:	1742552	Matrix:	Water
Associated Lab Samples:	2622251001, 2622251002, 2622251003, 2622251004, 2622251005, 2622251006, 2622251007, 2622251008, 2622251009, 2622251010		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.862 ± 0.415 (0.695) C:79% T:75%	pCi/L	09/16/19 12:47	

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

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QUALIFIERS

Project: Plant Yates Gypsum Storage

Pace Project No.: 2622251

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.

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.

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Gypsum Storage

Pace Project No.: 2622251

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2622251001	GWA-2	EPA 9315	359489		
2622251002	GWC-1R	EPA 9315	359489		
2622251003	GWC-2R	EPA 9315	359489		
2622251004	GWC-3R	EPA 9315	359489		
2622251005	GWC-4R	EPA 9315	359489		
2622251006	GWC-5R	EPA 9315	359489		
2622251007	GWC-6R	EPA 9315	359489		
2622251008	EB-1-8-19-19	EPA 9315	359489		
2622251009	Dup-1	EPA 9315	359489		
2622251010	FB-1-8-20-19	EPA 9315	359489		
2622251001	GWA-2	EPA 9320	358894		
2622251002	GWC-1R	EPA 9320	358894		
2622251003	GWC-2R	EPA 9320	358894		
2622251004	GWC-3R	EPA 9320	358894		
2622251005	GWC-4R	EPA 9320	358894		
2622251006	GWC-5R	EPA 9320	358894		
2622251007	GWC-6R	EPA 9320	358894		
2622251008	EB-1-8-19-19	EPA 9320	358894		
2622251009	Dup-1	EPA 9320	358894		
2622251010	FB-1-8-20-19	EPA 9320	358894		
2622251001	GWA-2	Total Radium Calculation	361774		
2622251002	GWC-1R	Total Radium Calculation	361774		
2622251003	GWC-2R	Total Radium Calculation	361774		
2622251004	GWC-3R	Total Radium Calculation	361774		
2622251005	GWC-4R	Total Radium Calculation	361774		
2622251006	GWC-5R	Total Radium Calculation	361774		
2622251007	GWC-6R	Total Radium Calculation	361774		
2622251008	EB-1-8-19-19	Total Radium Calculation	361774		
2622251009	Dup-1	Total Radium Calculation	361774		
2622251010	FB-1-8-20-19	Total Radium Calculation	361774		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
(770) 734-4200 : FAX (770) 734-4201

CHAIN OF CUSTODY RECORD

PAGE: 1 OF 1

CLIENT NAME		ANALYSIS REQUESTED		CONTAINER TYPE		PRESERVATION							
Georgia Power		P	P	P	P	1 - HCl, ≤6°C							
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:		3	7	3	3	2 - H ₂ SO ₄ , ≤6°C							
241 Ralph McGill Blvd SE B10185						3 - HNO ₃							
Atlanta, GA 30308						4 - NaOH, ≤6°C							
404-506-7239						5 - NaOH/ZnAc, ≤6°C							
REPORT TO:	Joju Abraham					6 - Na ₂ S ₂ O ₃ , ≤6°C							
REQUESTED COMPLETION DATE:	PO #:					7 - ≤6°C not frozen							
PROJECT NAME/STATE:	Plant Yates Gypsum Storage												
PROJECT #:													
Collection DATE	Collection TIME	MATRIX CODE*	C O M P	G R A B	SAMPLE IDENTIFICATION	CONTAINER TYPE	ANALYSIS REQUESTED	RELINQUISHED BY	DATE/TIME	RELINQUISHED BY	DATE/TIME	RELINQUISHED BY	DATE/TIME
8-19-19	1225	GW	✓	✓	BWA-2	4	Flouride	Flouride	8-21-19	1658	1658		
8-20-19	1010	GW	✓	✓	BWC-1R	4							
8-20-19	1350	GW	✓	✓	BWC-2R	4							
8-21-19	1250	GW	✓	✓	BWC-3R	4							
8-19-19	1600	GW	✓	✓	BWC-4R	4							
8-21-19	1045	GW	✓	✓	BWC-5R	4							
8-20-19	1200	GW	✓	✓	BWC-6R	4							
8-19-19	1530	W	✓	✓	EB-1-8-19-19	4							
8-20-19	---	GW	✓	✓	DuP-1	4							
8-20-19	325	W	✓	✓	FB-1-8-20-19	4							

NO# : 2622251



2622251

FOR LAB USE ONLY

LAB #:

Entered into LIMS:

Tracking #:

CLIENT OTHER FS

Order ID:

USPS FED-EX USPS COURIER OTHER FS

Sample Shipped Via: Broken Not Present

DATE/TIME: 8/21/19 1650

Temperature: Min: 2.0 Max:

RECEIVED BY: M. J. ...

Signature: M. J. ...

Yates - Gypsum Storage - Blank COCs

Sample Condition Upon Receipt



Client Name: GLA Power

Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other

WO# : 2622251

Tracking #: _____

PH: BM Due Date: 09/19/19

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

CLIENT: GAPower-CCR

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 83 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 2'0 Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 3/21/19 MR

Temp should be above freezing to 6°C

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

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

Georgia Power Company – Plant Yates Gypsum Storage Quality Control Review of Analytical Data – August 2019

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Pace Analytical Services, Atlanta and Pittsburgh for groundwater samples collected at Plant Yates Gypsum Storage between August 19, 2019 and August 21, 2019. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision-making purposes.

Information regarding the primary sample locations, analytical parameters, QC samples, sampling dates, and laboratory sample delivery group (SDG) designations is summarized in Table 1 of this Appendix. SDG 2622250 was revised by the laboratory to correct the reporting limits (RLs) in accordance with project requirements.

In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 CFR, Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detected monitoring constituents listed in 40 CFR, Part 257, Appendix III and assessment monitoring constituents listed in 40 CFR, Part 257, Appendix IV. Test methods included Inductively Coupled Plasma – Mass Spectrometry (USEPA Method 6020B), Mercury in Liquid Wastes (USEPA Method 7470A), Determination of Inorganic Anions (USEPA Method 300.0), Solids in Water (Standard Methods 2540C), Radium-226 (USEPA 9315), and Radium-228 (USEPA Method 9320).

Data were reviewed in accordance with the US EPA 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. 2.0)¹ and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)². The review included an assessment of the results for completeness, precision (laboratory duplicate recoveries and matrix spike/matrix spike duplicate recoveries), accuracy (laboratory control samples and matrix spike samples), and blank contamination (field, equipment, and laboratory blanks). Sample receipt conditions, holding times, and chains of custody (COCs) were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were used.

DATA QUALITY OBJECTIVES

Laboratory Precision: Laboratory goals for precision were met.

Field Precision: Field goals for precision were met.

Accuracy: Laboratory goals for accuracy were met.

Detection Limits: Project goals for detection limits were met.

Completeness: There were no rejected analytical results for this event, resulting in a completion of 100%.

Holding Times: Holding time requirements were met.

QUALIFICATIONS

In general, chemical results for the samples collected at the site were qualified on the basis of low precision or low accuracy or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data by the laboratory during the validation process:

J: The analyte was positively identified above the method detection limit; however, the associated numerical value is the approximate concentration of the analyte in the sample

ND: The analyte was not detected above the method detection limit

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines except as specified below. The applied qualifications may not have been required for all samples collected at the site. A summary of sample qualifications can be found in Table 2 of this Appendix.

- Radium-226 data for GWC-2R (2622251003) was qualified as non-detect (ND) due to the analyte being detected at a similar concentration in an associated blank sample. As shown in Table 2, the minimum detectable concentration (MDC) was raised to the sample result as part of the qualification process.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from the Plant Yates Gypsum Storage sampled between August 19, 2019 and August 21, 2019 in accordance with the analytical methods, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

REFERENCES

¹USEPA, September 2011, Region 4, Science and Ecosystem Support Division, Quality Assurance Section, MTSB, Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy, Revision 2.0

²USEPA, January 2017, National Office of Superfund Remediation and Technology Innovation, National Functional Guidelines for Inorganic Superfund Methods Data Review, Revision 0.0

TABLE 1

Georgia Power Company – Plant Yates Gypsum Storage

Sample Summary Table – August 2019

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Metals (6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (9315, 9320)
22250	GWA-2	8/19/2019	2622250001	GW		X	X	X	
22251	GWA-2	8/19/2019	2622251001	GW					X
22250	GWC-1R	8/20/2019	2622250002	GW		X	X	X	
22251	GWC-1R	8/20/2019	2622251002	GW					X
22250	GWC-2R	8/20/2019	2622250003	GW		X	X	X	
22251	GWC-2R	8/20/2019	2622251003	GW					X
22250	GWC-3R	8/21/2019	2622250004	GW		X	X	X	
22251	GWC-3R	8/11/2019	2622251004	GW					X
22250	GWC-4R	8/19/2019	2622250005	GW		X	X	X	
22251	GWC-4R	8/19/2019	2622251005	GW					X
22250	GWC-5R	8/21/2019	2622250006	GW		X	X	X	
22251	GWC-5R	8/21/2019	2622251006	GW					X
22250	GWC-6R	8/20/2019	2622250007	GW		X	X	X	
22251	GWC-6R	8/20/2019	2622251007	GW					X
22250	EB-1-8-19-19	8/19/2019	2622250008	WQ	EB	X	X	X	
22251	EB-1-8-19-19	8/19/2019	2622251008	WQ	EB				X
22250	DUP-1	8/20/2019	2622250009	GW	FD (GWC-6R)	X	X	X	
22251	DUP-1	8/20/2019	2622251009	GW	FD (GWC-6R)				X
22250	FB-1-8-20-19	8/20/2019	2622250010	WQ	FB	X	X	X	
22251	FB-1-8-20-19	8/20/2019	2622251010	WQ	FB				X

Abbreviations:

EB – Equipment Blank

FB – Field Blank

FD – Field Duplicate

GW – Groundwater

QC – Quality Control

TDS – Total Dissolved Solids

WQ – Water Quality Control

TABLE 2

Georgia Power Company – Plant Yates Gypsum Storage

Qualifier Summary Table – August 2019

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
22251	GWC-2R	Radium-226		0.318	ND	Blank detection

Abbreviations:

MDC – Minimum Detectable Concentration
 MS/MSD – Matrix Spike / Matrix Spike Duplicate
 MDL – Method Detection Limit
 RL – Reporting Limit
 RPD – Relative Percent Difference
 SDG – Sample Delivery Group

Qualifiers:

J – Estimated Result
 ND – Non-Detect Result

October 2019

Semiannual Event



December 11, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: Plant Yates Gypsum Storage
Pace Project No.: 2624193

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on October 10, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

This report was revised 11/12/19 to remove Molybdenum as it was not requested on the COC.

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

Sincerely,



Kevin Herring for
Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Betsy McDaniel, Atlantic Coast Consulting
Chris Parker, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Yates Gypsum Storage
Pace Project No.: 2624193

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Yates Gypsum Storage

Pace Project No.: 2624193

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2624193001	GWA-2	Water	10/08/19 15:15	10/10/19 16:35
2624193002	GWC-1R	Water	10/09/19 16:15	10/10/19 16:35
2624193003	GWC-2R	Water	10/09/19 17:20	10/10/19 16:35
2624193004	GWC-3R	Water	10/10/19 11:00	10/10/19 16:35
2624193005	GWC-4R	Water	10/10/19 13:02	10/10/19 16:35
2624193006	GWC-5R	Water	10/09/19 17:30	10/10/19 16:35
2624193007	GWC-6R	Water	10/08/19 16:45	10/10/19 16:35
2624193008	EB-1-10-9-19	Water	10/09/19 18:00	10/10/19 16:35
2624193009	FB-1-10-8-19	Water	10/08/19 17:10	10/10/19 16:35
2624193010	Dup-1	Water	10/10/19 00:00	10/10/19 16:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates Gypsum Storage
Pace Project No.: 2624193

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2624193001	GWA-2	EPA 6020B	CSW	18
		EPA 7470A	DRB	1
		SM 2540C	ALW	1
		EPA 300.0	MWB	3
2624193002	GWC-1R	EPA 6020B	CSW	18
		EPA 7470A	DRB	1
		SM 2540C	ALW	1
		EPA 300.0	MWB	3
2624193003	GWC-2R	EPA 6020B	CSW	18
		EPA 7470A	DRB	1
		SM 2540C	ALW	1
		EPA 300.0	MWB	3
2624193004	GWC-3R	EPA 6020B	CSW	18
		EPA 7470A	DRB	1
		SM 2540C	ALW	1
		EPA 300.0	MWB	3
2624193005	GWC-4R	EPA 6020B	CSW	18
		EPA 7470A	DRB	1
		SM 2540C	ALW	1
		EPA 300.0	MWB	3
2624193006	GWC-5R	EPA 6020B	CSW	18
		EPA 7470A	DRB	1
		SM 2540C	ALW	1
		EPA 300.0	MWB	3
2624193007	GWC-6R	EPA 6020B	CSW	18
		EPA 7470A	DRB	1
		SM 2540C	ALW	1
		EPA 300.0	MWB	3
2624193008	EB-1-10-9-19	EPA 6020B	CSW	18
		EPA 7470A	DRB	1
		SM 2540C	ALW	1
		EPA 300.0	MWB	3
2624193009	FB-1-10-8-19	EPA 6020B	CSW	18
		EPA 7470A	DRB	1
		SM 2540C	ALW	1
		EPA 300.0	MWB	3
2624193010	Dup-1	EPA 6020B	CSW	18

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates Gypsum Storage

Pace Project No.: 2624193

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	DRB	1
		SM 2540C	ALW	1
		EPA 300.0	MWB	3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Gypsum Storage
Pace Project No.: 2624193

Sample: GWA-2		Lab ID: 2624193001		Collected: 10/08/19 15:15		Received: 10/10/19 16:35		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:09	10/16/19 17:55	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	10/14/19 14:09	10/16/19 17:55	7440-38-2		
Barium	0.058	mg/L	0.010	0.00049	1	10/14/19 14:09	10/16/19 17:55	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	10/14/19 14:09	10/16/19 17:55	7440-41-7		
Boron	ND	mg/L	0.040	0.0049	1	10/14/19 14:09	10/16/19 17:55	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	10/14/19 14:09	10/16/19 17:55	7440-43-9		
Calcium	28.3	mg/L	5.0	0.55	50	10/14/19 14:09	10/16/19 18:00	7440-70-2		
Chromium	ND	mg/L	0.010	0.00039	1	10/14/19 14:09	10/16/19 17:55	7440-47-3		
Cobalt	0.0039J	mg/L	0.0050	0.00030	1	10/14/19 14:09	10/16/19 17:55	7440-48-4		
Copper	0.00041J	mg/L	0.025	0.00019	1	10/14/19 14:09	10/16/19 17:55	7440-50-8		
Lead	ND	mg/L	0.0050	0.000046	1	10/14/19 14:09	10/16/19 17:55	7439-92-1		
Lithium	0.0015J	mg/L	0.030	0.00078	1	10/14/19 14:09	10/16/19 17:55	7439-93-2		
Nickel	0.0051J	mg/L	0.010	0.00031	1	10/14/19 14:09	10/16/19 17:55	7440-02-0		
Selenium	ND	mg/L	0.010	0.0013	1	10/14/19 14:09	10/16/19 17:55	7782-49-2		
Silver	ND	mg/L	0.010	0.00028	1	10/14/19 14:09	10/16/19 17:55	7440-22-4		
Thallium	ND	mg/L	0.0010	0.000052	1	10/14/19 14:09	10/16/19 17:55	7440-28-0		
Vanadium	ND	mg/L	0.010	0.00071	1	10/14/19 14:09	10/16/19 17:55	7440-62-2		
Zinc	0.0078J	mg/L	0.010	0.0015	1	10/14/19 14:09	10/16/19 17:55	7440-66-6	B	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00020	0.00014	1	10/16/19 09:16	10/17/19 10:19	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	276	mg/L	10.0	10.0	1		10/14/19 11:51			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	5.1	mg/L	1.0	0.024	1		10/16/19 11:45	16887-00-6		
Fluoride	0.052J	mg/L	0.30	0.029	1		10/16/19 11:45	16984-48-8		
Sulfate	128	mg/L	5.0	0.085	5		10/17/19 05:05	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Gypsum Storage
Pace Project No.: 2624193

Sample: GWC-1R		Lab ID: 2624193002		Collected: 10/09/19 16:15	Received: 10/10/19 16:35	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:09	10/16/19 18:06	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	10/14/19 14:09	10/16/19 18:06	7440-38-2		
Barium	0.054	mg/L	0.010	0.00049	1	10/14/19 14:09	10/16/19 18:06	7440-39-3		
Beryllium	0.00013J	mg/L	0.0030	0.000074	1	10/14/19 14:09	10/16/19 18:06	7440-41-7		
Boron	0.029J	mg/L	0.040	0.0049	1	10/14/19 14:09	10/16/19 18:06	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	10/14/19 14:09	10/16/19 18:06	7440-43-9		
Calcium	59.1	mg/L	5.0	0.55	50	10/14/19 14:09	10/16/19 18:12	7440-70-2		
Chromium	0.0012J	mg/L	0.010	0.00039	1	10/14/19 14:09	10/16/19 18:06	7440-47-3	B	
Cobalt	0.00064J	mg/L	0.0050	0.00030	1	10/14/19 14:09	10/16/19 18:06	7440-48-4		
Copper	0.00079J	mg/L	0.025	0.00019	1	10/14/19 14:09	10/16/19 18:06	7440-50-8		
Lead	0.000052J	mg/L	0.0050	0.000046	1	10/14/19 14:09	10/16/19 18:06	7439-92-1		
Lithium	0.0013J	mg/L	0.030	0.00078	1	10/14/19 14:09	10/16/19 18:06	7439-93-2		
Nickel	0.0015J	mg/L	0.010	0.00031	1	10/14/19 14:09	10/16/19 18:06	7440-02-0		
Selenium	0.0023J	mg/L	0.010	0.0013	1	10/14/19 14:09	10/16/19 18:06	7782-49-2		
Silver	ND	mg/L	0.010	0.00028	1	10/14/19 14:09	10/16/19 18:06	7440-22-4		
Thallium	ND	mg/L	0.0010	0.000052	1	10/14/19 14:09	10/16/19 18:06	7440-28-0		
Vanadium	ND	mg/L	0.010	0.00071	1	10/14/19 14:09	10/16/19 18:06	7440-62-2		
Zinc	0.0078J	mg/L	0.010	0.0015	1	10/14/19 14:09	10/16/19 18:06	7440-66-6	B	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00020	0.00014	1	10/16/19 09:16	10/17/19 10:26	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	526	mg/L	10.0	10.0	1		10/15/19 17:21			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	6.9	mg/L	1.0	0.024	1		10/16/19 13:36	16887-00-6		
Fluoride	ND	mg/L	0.30	0.029	1		10/16/19 13:36	16984-48-8		
Sulfate	318	mg/L	20.0	0.34	20		10/16/19 19:08	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Yates Gypsum Storage

Pace Project No.: 2624193

Sample: GWC-2R		Lab ID: 2624193003		Collected: 10/09/19 17:20		Received: 10/10/19 16:35		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:09	10/16/19 19:04	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	10/14/19 14:09	10/16/19 19:04	7440-38-2		
Barium	0.045	mg/L	0.010	0.00049	1	10/14/19 14:09	10/16/19 19:04	7440-39-3		
Beryllium	0.00014J	mg/L	0.0030	0.000074	1	10/14/19 14:09	10/16/19 19:04	7440-41-7		
Boron	0.018J	mg/L	0.040	0.0049	1	10/14/19 14:09	10/16/19 19:04	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	10/14/19 14:09	10/16/19 19:04	7440-43-9		
Calcium	27.8	mg/L	5.0	0.55	50	10/14/19 14:09	10/16/19 19:10	7440-70-2		
Chromium	0.00059J	mg/L	0.010	0.00039	1	10/14/19 14:09	10/16/19 19:04	7440-47-3	B	
Cobalt	0.024	mg/L	0.0050	0.00030	1	10/14/19 14:09	10/16/19 19:04	7440-48-4		
Copper	0.00024J	mg/L	0.025	0.00019	1	10/14/19 14:09	10/16/19 19:04	7440-50-8		
Lead	0.000057J	mg/L	0.0050	0.000046	1	10/14/19 14:09	10/16/19 19:04	7439-92-1		
Lithium	0.0047J	mg/L	0.030	0.00078	1	10/14/19 14:09	10/16/19 19:04	7439-93-2		
Nickel	0.00058J	mg/L	0.010	0.00031	1	10/14/19 14:09	10/16/19 19:04	7440-02-0		
Selenium	0.0026J	mg/L	0.010	0.0013	1	10/14/19 14:09	10/16/19 19:04	7782-49-2		
Silver	ND	mg/L	0.010	0.00028	1	10/14/19 14:09	10/16/19 19:04	7440-22-4		
Thallium	ND	mg/L	0.0010	0.000052	1	10/14/19 14:09	10/16/19 19:04	7440-28-0		
Vanadium	ND	mg/L	0.010	0.00071	1	10/14/19 14:09	10/16/19 19:04	7440-62-2		
Zinc	0.0069J	mg/L	0.010	0.0015	1	10/14/19 14:09	10/16/19 19:04	7440-66-6	B	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00020	0.00014	1	10/16/19 09:16	10/17/19 10:29	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	372	mg/L	10.0	10.0	1		10/15/19 17:22			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	9.8	mg/L	1.0	0.024	1		10/16/19 14:42	16887-00-6		
Fluoride	ND	mg/L	0.30	0.029	1		10/16/19 14:42	16984-48-8		
Sulfate	91.2	mg/L	10.0	0.17	10		10/16/19 19:30	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Yates Gypsum Storage
Pace Project No.: 2624193

Sample: GWC-3R		Lab ID: 2624193004		Collected: 10/10/19 11:00	Received: 10/10/19 16:35	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:09	10/16/19 19:15	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	10/14/19 14:09	10/16/19 19:15	7440-38-2		
Barium	0.018	mg/L	0.010	0.00049	1	10/14/19 14:09	10/16/19 19:15	7440-39-3		
Beryllium	0.00039J	mg/L	0.0030	0.000074	1	10/14/19 14:09	10/16/19 19:15	7440-41-7		
Boron	0.0061J	mg/L	0.040	0.0049	1	10/14/19 14:09	10/16/19 19:15	7440-42-8		
Cadmium	0.00018J	mg/L	0.0025	0.00011	1	10/14/19 14:09	10/16/19 19:15	7440-43-9		
Calcium	4.3	mg/L	0.10	0.011	1	10/14/19 14:09	10/16/19 19:15	7440-70-2		
Chromium	0.0014J	mg/L	0.010	0.00039	1	10/14/19 14:09	10/16/19 19:15	7440-47-3	B	
Cobalt	ND	mg/L	0.0050	0.00030	1	10/14/19 14:09	10/16/19 19:15	7440-48-4		
Copper	0.00033J	mg/L	0.025	0.00019	1	10/14/19 14:09	10/16/19 19:15	7440-50-8		
Lead	ND	mg/L	0.0050	0.000046	1	10/14/19 14:09	10/16/19 19:15	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	10/14/19 14:09	10/16/19 19:15	7439-93-2		
Nickel	ND	mg/L	0.010	0.00031	1	10/14/19 14:09	10/16/19 19:15	7440-02-0		
Selenium	0.0021J	mg/L	0.010	0.0013	1	10/14/19 14:09	10/16/19 19:15	7782-49-2		
Silver	ND	mg/L	0.010	0.00028	1	10/14/19 14:09	10/16/19 19:15	7440-22-4		
Thallium	ND	mg/L	0.0010	0.000052	1	10/14/19 14:09	10/16/19 19:15	7440-28-0		
Vanadium	0.0011J	mg/L	0.010	0.00071	1	10/14/19 14:09	10/16/19 19:15	7440-62-2		
Zinc	0.0079J	mg/L	0.010	0.0015	1	10/14/19 14:09	10/16/19 19:15	7440-66-6	B	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	0.00043J	mg/L	0.00050	0.00014	1	10/16/19 09:16	10/17/19 10:31	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	109	mg/L	10.0	10.0	1		10/16/19 18:49		D6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	5.3	mg/L	1.0	0.024	1		10/16/19 15:04	16887-00-6		
Fluoride	ND	mg/L	0.30	0.029	1		10/16/19 15:04	16984-48-8		
Sulfate	48.0	mg/L	1.0	0.017	1		10/16/19 15:04	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Yates Gypsum Storage
Pace Project No.: 2624193

Sample: GWC-4R		Lab ID: 2624193005		Collected: 10/10/19 13:02		Received: 10/10/19 16:35		Matrix: Water	
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:09	10/16/19 19:27	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	10/14/19 14:09	10/16/19 19:27	7440-38-2	
Barium	0.018	mg/L	0.010	0.00049	1	10/14/19 14:09	10/16/19 19:27	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	10/14/19 14:09	10/16/19 19:27	7440-41-7	
Boron	0.78	mg/L	0.040	0.0049	1	10/14/19 14:09	10/16/19 19:27	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	10/14/19 14:09	10/16/19 19:27	7440-43-9	
Calcium	18.0	mg/L	5.0	0.55	50	10/14/19 14:09	10/16/19 19:33	7440-70-2	
Chromium	0.00057J	mg/L	0.010	0.00039	1	10/14/19 14:09	10/16/19 19:27	7440-47-3	B
Cobalt	0.00099J	mg/L	0.0050	0.00030	1	10/14/19 14:09	10/16/19 19:27	7440-48-4	
Copper	ND	mg/L	0.025	0.00019	1	10/14/19 14:09	10/16/19 19:27	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	10/14/19 14:09	10/16/19 19:27	7439-92-1	
Lithium	0.0013J	mg/L	0.030	0.00078	1	10/14/19 14:09	10/16/19 19:27	7439-93-2	
Nickel	0.00084J	mg/L	0.010	0.00031	1	10/14/19 14:09	10/16/19 19:27	7440-02-0	
Selenium	0.0024J	mg/L	0.010	0.0013	1	10/14/19 14:09	10/16/19 19:27	7782-49-2	
Silver	ND	mg/L	0.010	0.00028	1	10/14/19 14:09	10/16/19 19:27	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	10/14/19 14:09	10/16/19 19:27	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	10/14/19 14:09	10/16/19 19:27	7440-62-2	
Zinc	0.0060J	mg/L	0.010	0.0015	1	10/14/19 14:09	10/16/19 19:27	7440-66-6	B
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00020	0.00014	1	10/16/19 09:16	10/17/19 10:33	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	247	mg/L	10.0	10.0	1		10/16/19 18:49		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	42.8	mg/L	1.0	0.024	1		10/16/19 15:26	16887-00-6	
Fluoride	ND	mg/L	0.30	0.029	1		10/16/19 15:26	16984-48-8	
Sulfate	68.7	mg/L	10.0	0.17	10		10/16/19 20:14	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Gypsum Storage
Pace Project No.: 2624193

Sample: GWC-5R		Lab ID: 2624193006		Collected: 10/09/19 17:30		Received: 10/10/19 16:35		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:09	10/16/19 19:38	7440-36-0		
Arsenic	0.0012J	mg/L	0.0050	0.00035	1	10/14/19 14:09	10/16/19 19:38	7440-38-2		
Barium	0.015	mg/L	0.010	0.00049	1	10/14/19 14:09	10/16/19 19:38	7440-39-3		
Beryllium	0.0022J	mg/L	0.0030	0.000074	1	10/14/19 14:09	10/16/19 19:38	7440-41-7		
Boron	0.013J	mg/L	0.040	0.0049	1	10/14/19 14:09	10/16/19 19:38	7440-42-8		
Cadmium	0.0011J	mg/L	0.0025	0.00011	1	10/14/19 14:09	10/16/19 19:38	7440-43-9		
Calcium	128	mg/L	5.0	0.55	50	10/14/19 14:09	10/16/19 19:44	7440-70-2		
Chromium	0.0024J	mg/L	0.010	0.00039	1	10/14/19 14:09	10/16/19 19:38	7440-47-3	B	
Cobalt	0.00031J	mg/L	0.0050	0.00030	1	10/14/19 14:09	10/16/19 19:38	7440-48-4		
Copper	0.00087J	mg/L	0.025	0.00019	1	10/14/19 14:09	10/16/19 19:38	7440-50-8		
Lead	0.000059J	mg/L	0.0050	0.000046	1	10/14/19 14:09	10/16/19 19:38	7439-92-1		
Lithium	0.0014J	mg/L	0.030	0.00078	1	10/14/19 14:09	10/16/19 19:38	7439-93-2		
Nickel	0.0019J	mg/L	0.010	0.00031	1	10/14/19 14:09	10/16/19 19:38	7440-02-0		
Selenium	0.034	mg/L	0.010	0.0013	1	10/14/19 14:09	10/16/19 19:38	7782-49-2		
Silver	ND	mg/L	0.010	0.00028	1	10/14/19 14:09	10/16/19 19:38	7440-22-4		
Thallium	ND	mg/L	0.0010	0.000052	1	10/14/19 14:09	10/16/19 19:38	7440-28-0		
Vanadium	ND	mg/L	0.010	0.00071	1	10/14/19 14:09	10/16/19 19:38	7440-62-2		
Zinc	0.025	mg/L	0.010	0.0015	1	10/14/19 14:09	10/16/19 19:38	7440-66-6	B	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00020	0.00014	1	10/16/19 09:16	10/17/19 10:36	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	1680	mg/L	10.0	10.0	1		10/15/19 17:22			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	4.5	mg/L	1.0	0.024	1		10/16/19 15:48	16887-00-6		
Fluoride	0.35	mg/L	0.30	0.029	1		10/16/19 15:48	16984-48-8		
Sulfate	1180	mg/L	50.0	0.85	50		10/16/19 20:36	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Yates Gypsum Storage
Pace Project No.: 2624193

Sample: GWC-6R		Lab ID: 2624193007		Collected: 10/08/19 16:45	Received: 10/10/19 16:35	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:09	10/16/19 19:50	7440-36-0		
Arsenic	0.00056J	mg/L	0.0050	0.00035	1	10/14/19 14:09	10/16/19 19:50	7440-38-2		
Barium	0.054	mg/L	0.010	0.00049	1	10/14/19 14:09	10/16/19 19:50	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	10/14/19 14:09	10/16/19 19:50	7440-41-7		
Boron	ND	mg/L	0.040	0.0049	1	10/14/19 14:09	10/16/19 19:50	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	10/14/19 14:09	10/16/19 19:50	7440-43-9		
Calcium	115	mg/L	5.0	0.55	50	10/14/19 14:09	10/16/19 19:55	7440-70-2		
Chromium	0.0014J	mg/L	0.010	0.00039	1	10/14/19 14:09	10/16/19 19:50	7440-47-3	B	
Cobalt	ND	mg/L	0.0050	0.00030	1	10/14/19 14:09	10/16/19 19:50	7440-48-4		
Copper	0.0011J	mg/L	0.025	0.00019	1	10/14/19 14:09	10/16/19 19:50	7440-50-8		
Lead	ND	mg/L	0.0050	0.000046	1	10/14/19 14:09	10/16/19 19:50	7439-92-1		
Lithium	0.0021J	mg/L	0.030	0.00078	1	10/14/19 14:09	10/16/19 19:50	7439-93-2		
Nickel	0.0021J	mg/L	0.010	0.00031	1	10/14/19 14:09	10/16/19 19:50	7440-02-0		
Selenium	0.0031J	mg/L	0.010	0.0013	1	10/14/19 14:09	10/16/19 19:50	7782-49-2		
Silver	ND	mg/L	0.010	0.00028	1	10/14/19 14:09	10/16/19 19:50	7440-22-4		
Thallium	ND	mg/L	0.0010	0.000052	1	10/14/19 14:09	10/16/19 19:50	7440-28-0		
Vanadium	ND	mg/L	0.010	0.00071	1	10/14/19 14:09	10/16/19 19:50	7440-62-2		
Zinc	0.0060J	mg/L	0.010	0.0015	1	10/14/19 14:09	10/16/19 19:50	7440-66-6	B	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00020	0.00014	1	10/16/19 09:16	10/17/19 10:38	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	1050	mg/L	10.0	10.0	1		10/14/19 11:51			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	4.9	mg/L	1.0	0.024	1		10/16/19 16:11	16887-00-6		
Fluoride	ND	mg/L	0.30	0.029	1		10/16/19 16:11	16984-48-8		
Sulfate	664	mg/L	50.0	0.85	50		10/16/19 20:58	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Yates Gypsum Storage
Pace Project No.: 2624193

Sample: EB-1-10-9-19		Lab ID: 2624193008		Collected: 10/09/19 18:00		Received: 10/10/19 16:35		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:09	10/16/19 20:13	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	10/14/19 14:09	10/16/19 20:13	7440-38-2		
Barium	ND	mg/L	0.010	0.00049	1	10/14/19 14:09	10/16/19 20:13	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	10/14/19 14:09	10/16/19 20:13	7440-41-7		
Boron	ND	mg/L	0.040	0.0049	1	10/14/19 14:09	10/16/19 20:13	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	10/14/19 14:09	10/16/19 20:13	7440-43-9		
Calcium	0.018J	mg/L	0.10	0.011	1	10/14/19 14:09	10/16/19 20:13	7440-70-2		
Chromium	0.00076J	mg/L	0.010	0.00039	1	10/14/19 14:09	10/16/19 20:13	7440-47-3	B	
Cobalt	ND	mg/L	0.0050	0.00030	1	10/14/19 14:09	10/16/19 20:13	7440-48-4		
Copper	ND	mg/L	0.025	0.00019	1	10/14/19 14:09	10/16/19 20:13	7440-50-8		
Lead	ND	mg/L	0.0050	0.000046	1	10/14/19 14:09	10/16/19 20:13	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	10/14/19 14:09	10/16/19 20:13	7439-93-2		
Nickel	0.00074J	mg/L	0.010	0.00031	1	10/14/19 14:09	10/16/19 20:13	7440-02-0		
Selenium	ND	mg/L	0.010	0.0013	1	10/14/19 14:09	10/16/19 20:13	7782-49-2		
Silver	ND	mg/L	0.010	0.00028	1	10/14/19 14:09	10/16/19 20:13	7440-22-4		
Thallium	ND	mg/L	0.0010	0.000052	1	10/14/19 14:09	10/16/19 20:13	7440-28-0		
Vanadium	ND	mg/L	0.010	0.00071	1	10/14/19 14:09	10/16/19 20:13	7440-62-2		
Zinc	0.0086J	mg/L	0.010	0.0015	1	10/14/19 14:09	10/16/19 20:13	7440-66-6	B	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00020	0.00014	1	10/16/19 09:16	10/17/19 10:40	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	10.0	mg/L	10.0	10.0	1		10/15/19 17:22			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	0.037J	mg/L	1.0	0.024	1		10/16/19 16:33	16887-00-6		
Fluoride	ND	mg/L	0.30	0.029	1		10/16/19 16:33	16984-48-8		
Sulfate	0.23J	mg/L	1.0	0.017	1		10/16/19 16:33	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Gypsum Storage
Pace Project No.: 2624193

Sample: FB-1-10-8-19		Lab ID: 2624193009		Collected: 10/08/19 17:10	Received: 10/10/19 16:35	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:09	10/16/19 20:18	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	10/14/19 14:09	10/16/19 20:18	7440-38-2		
Barium	ND	mg/L	0.010	0.00049	1	10/14/19 14:09	10/16/19 20:18	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	10/14/19 14:09	10/16/19 20:18	7440-41-7		
Boron	ND	mg/L	0.040	0.0049	1	10/14/19 14:09	10/16/19 20:18	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	10/14/19 14:09	10/16/19 20:18	7440-43-9		
Calcium	ND	mg/L	0.10	0.011	1	10/14/19 14:09	10/16/19 20:18	7440-70-2		
Chromium	0.0029J	mg/L	0.010	0.00039	1	10/14/19 14:09	10/16/19 20:18	7440-47-3	B	
Cobalt	ND	mg/L	0.0050	0.00030	1	10/14/19 14:09	10/16/19 20:18	7440-48-4		
Copper	ND	mg/L	0.025	0.00019	1	10/14/19 14:09	10/16/19 20:18	7440-50-8		
Lead	ND	mg/L	0.0050	0.000046	1	10/14/19 14:09	10/16/19 20:18	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	10/14/19 14:09	10/16/19 20:18	7439-93-2		
Nickel	0.0035J	mg/L	0.010	0.00031	1	10/14/19 14:09	10/16/19 20:18	7440-02-0		
Selenium	ND	mg/L	0.010	0.0013	1	10/14/19 14:09	10/16/19 20:18	7782-49-2		
Silver	ND	mg/L	0.010	0.00028	1	10/14/19 14:09	10/16/19 20:18	7440-22-4		
Thallium	ND	mg/L	0.0010	0.000052	1	10/14/19 14:09	10/16/19 20:18	7440-28-0		
Vanadium	ND	mg/L	0.010	0.00071	1	10/14/19 14:09	10/16/19 20:18	7440-62-2		
Zinc	0.0051J	mg/L	0.010	0.0015	1	10/14/19 14:09	10/16/19 20:18	7440-66-6	B	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00020	0.00014	1	10/16/19 09:16	10/17/19 10:43	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		10/14/19 11:51			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	0.030J	mg/L	1.0	0.024	1		10/16/19 16:55	16887-00-6		
Fluoride	ND	mg/L	0.30	0.029	1		10/16/19 16:55	16984-48-8		
Sulfate	0.049J	mg/L	1.0	0.017	1		10/16/19 16:55	14808-79-8	B	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Gypsum Storage
Pace Project No.: 2624193

Sample: Dup-1		Lab ID: 2624193010		Collected: 10/10/19 00:00	Received: 10/10/19 16:35	Matrix: Water				
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	10/14/19 14:09	10/16/19 20:24	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	10/14/19 14:09	10/16/19 20:24	7440-38-2		
Barium	0.018	mg/L	0.010	0.00049	1	10/14/19 14:09	10/16/19 20:24	7440-39-3		
Beryllium	0.00037J	mg/L	0.0030	0.000074	1	10/14/19 14:09	10/16/19 20:24	7440-41-7		
Boron	0.0061J	mg/L	0.040	0.0049	1	10/14/19 14:09	10/16/19 20:24	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	10/14/19 14:09	10/16/19 20:24	7440-43-9		
Calcium	4.4	mg/L	0.10	0.011	1	10/14/19 14:09	10/16/19 20:24	7440-70-2		
Chromium	0.020	mg/L	0.010	0.00039	1	10/14/19 14:09	10/16/19 20:24	7440-47-3		
Cobalt	0.00060J	mg/L	0.0050	0.00030	1	10/14/19 14:09	10/16/19 20:24	7440-48-4		
Copper	ND	mg/L	0.025	0.00019	1	10/14/19 14:09	10/16/19 20:24	7440-50-8		
Lead	ND	mg/L	0.0050	0.000046	1	10/14/19 14:09	10/16/19 20:24	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	10/14/19 14:09	10/16/19 20:24	7439-93-2		
Nickel	0.023	mg/L	0.010	0.00031	1	10/14/19 14:09	10/16/19 20:24	7440-02-0		
Selenium	0.0019J	mg/L	0.010	0.0013	1	10/14/19 14:09	10/16/19 20:24	7782-49-2		
Silver	ND	mg/L	0.010	0.00028	1	10/14/19 14:09	10/16/19 20:24	7440-22-4		
Thallium	ND	mg/L	0.0010	0.000052	1	10/14/19 14:09	10/16/19 20:24	7440-28-0		
Vanadium	ND	mg/L	0.010	0.00071	1	10/14/19 14:09	10/16/19 20:24	7440-62-2		
Zinc	0.0064J	mg/L	0.010	0.0015	1	10/14/19 14:09	10/16/19 20:24	7440-66-6	B	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00020	0.00014	1	10/16/19 09:16	10/17/19 10:45	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	123	mg/L	10.0	10.0	1		10/16/19 18:49			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	5.3	mg/L	1.0	0.024	1		10/16/19 18:23	16887-00-6		
Fluoride	0.030J	mg/L	0.30	0.029	1		10/16/19 18:23	16984-48-8		
Sulfate	47.8	mg/L	1.0	0.017	1		10/16/19 18:23	14808-79-8		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Gypsum Storage

Pace Project No.: 2624193

QC Batch: 36917 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Associated Lab Samples: 2624193001, 2624193002, 2624193003, 2624193004, 2624193005, 2624193006, 2624193007, 2624193008, 2624193009, 2624193010

METHOD BLANK: 166881 Matrix: Water
 Associated Lab Samples: 2624193001, 2624193002, 2624193003, 2624193004, 2624193005, 2624193006, 2624193007, 2624193008, 2624193009, 2624193010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00014	10/17/19 09:58	

LABORATORY CONTROL SAMPLE: 166882

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: 166883 166884

Parameter	Units	2624187021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0025	0.0024	100	95	75-125	5	20	

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QUALITY CONTROL DATA

Project: Plant Yates Gypsum Storage
Pace Project No.: 2624193

QC Batch: 36894 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2624193001, 2624193002, 2624193003, 2624193004, 2624193005, 2624193006, 2624193007, 2624193008, 2624193009, 2624193010

METHOD BLANK: 166799 Matrix: Water
Associated Lab Samples: 2624193001, 2624193002, 2624193003, 2624193004, 2624193005, 2624193006, 2624193007, 2624193008, 2624193009, 2624193010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	10/16/19 16:16	
Arsenic	mg/L	ND	0.0050	0.00035	10/16/19 16:16	
Barium	mg/L	ND	0.010	0.00049	10/16/19 16:16	
Beryllium	mg/L	ND	0.0030	0.000074	10/16/19 16:16	
Boron	mg/L	ND	0.040	0.0049	10/16/19 16:16	
Cadmium	mg/L	ND	0.0025	0.00011	10/16/19 16:16	
Calcium	mg/L	ND	0.10	0.011	10/16/19 16:16	
Chromium	mg/L	0.00056J	0.010	0.00039	10/16/19 16:16	
Cobalt	mg/L	ND	0.0050	0.00030	10/16/19 16:16	
Copper	mg/L	ND	0.025	0.00019	10/16/19 16:16	
Lead	mg/L	ND	0.0050	0.000046	10/16/19 16:16	
Lithium	mg/L	ND	0.030	0.00078	10/16/19 16:16	
Nickel	mg/L	ND	0.010	0.00031	10/16/19 16:16	
Selenium	mg/L	ND	0.010	0.0013	10/16/19 16:16	
Silver	mg/L	ND	0.010	0.00028	10/16/19 16:16	
Thallium	mg/L	ND	0.0010	0.000052	10/16/19 16:16	
Vanadium	mg/L	ND	0.010	0.00071	10/16/19 16:16	
Zinc	mg/L	0.0050J	0.010	0.0015	10/16/19 16:16	

LABORATORY CONTROL SAMPLE: 166800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.096	96	80-120	
Arsenic	mg/L	0.1	0.095	95	80-120	
Barium	mg/L	0.1	0.095	95	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Calcium	mg/L	1	0.95	95	80-120	
Chromium	mg/L	0.1	0.097	97	80-120	
Cobalt	mg/L	0.1	0.095	95	80-120	
Copper	mg/L	0.1	0.097	97	80-120	
Lead	mg/L	0.1	0.094	94	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Nickel	mg/L	0.1	0.095	95	80-120	
Selenium	mg/L	0.1	0.094	94	80-120	
Silver	mg/L	0.1	0.092	92	80-120	
Thallium	mg/L	0.1	0.094	94	80-120	

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QUALITY CONTROL DATA

Project: Plant Yates Gypsum Storage
Pace Project No.: 2624193

LABORATORY CONTROL SAMPLE: 166800

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Vanadium	mg/L	0.1	0.096	96	80-120	
Zinc	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 166801 166802

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		2624187021	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Antimony	mg/L	ND	0.1	0.1	0.089	0.097	89	96	75-125	8	20		
Arsenic	mg/L	0.0053J	0.1	0.1	0.096	0.098	91	93	75-125	3	20		
Barium	mg/L	0.13	0.1	0.1	0.21	0.22	87	96	75-125	4	20		
Beryllium	mg/L	ND	0.1	0.1	0.092	0.091	92	91	75-125	2	20		
Boron	mg/L	6.8	1	1	8.0	7.5	121	71	75-125	6	20	M1	
Cadmium	mg/L	ND	0.1	0.1	0.090	0.092	90	92	75-125	2	20		
Calcium	mg/L	17.7	1	1	19.4	18.5	163	79	75-125	4	20	M1	
Chromium	mg/L	0.012J	0.1	0.1	0.11	0.10	95	91	75-125	4	20		
Cobalt	mg/L	0.0037J	0.1	0.1	0.092	0.092	88	88	75-125	0	20		
Copper	mg/L		0.1	0.1	0.091J	0.091J	90	89	75-125	1	20		
Lead	mg/L	0.0025J	0.1	0.1	0.089	0.091	86	89	75-125	3	20		
Lithium	mg/L	ND	0.1	0.1	0.092J	0.092J	92	91	75-125		20		
Nickel	mg/L		0.1	0.1	0.12	0.11	92	89	75-125	3	20		
Selenium	mg/L	0.0073J	0.1	0.1	0.088	0.10	81	95	75-125	15	20		
Silver	mg/L		0.1	0.1	0.087	0.092	87	92	75-125	6	20		
Thallium	mg/L	0.00031J	0.1	0.1	0.088	0.089	87	89	75-125	1	20		
Vanadium	mg/L	0.033J	0.1	0.1	0.14	0.14	104	103	75-125	1	20		
Zinc	mg/L	0.0081J	0.1	0.1	0.11	0.10	98	93	75-125	6	20		

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QUALITY CONTROL DATA

Project: Plant Yates Gypsum Storage

Pace Project No.: 2624193

QC Batch: 36914	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 2624193001, 2624193007, 2624193009	

LABORATORY CONTROL SAMPLE: 166870

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	366	92	84-108	

SAMPLE DUPLICATE: 166871

Parameter	Units	2624187005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	526	532	1	10	

SAMPLE DUPLICATE: 166872

Parameter	Units	2624140004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	18.0	13.0	32	10	D6

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QUALITY CONTROL DATA

Project: Plant Yates Gypsum Storage

Pace Project No.: 2624193

QC Batch: 36986 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 2624193002, 2624193003, 2624193006, 2624193008

LABORATORY CONTROL SAMPLE: 167157

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	400	100	84-108	

SAMPLE DUPLICATE: 167158

Parameter	Units	2624142008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	115	101	13	10	D6

SAMPLE DUPLICATE: 167159

Parameter	Units	2624187019 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	211	210	0	10	

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QUALITY CONTROL DATA

Project: Plant Yates Gypsum Storage
Pace Project No.: 2624193

QC Batch: 37083 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 2624193004, 2624193005, 2624193010

LABORATORY CONTROL SAMPLE: 167558

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	404	101	84-108	

SAMPLE DUPLICATE: 167559

Parameter	Units	2624193004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	109	135	21	10	D6

SAMPLE DUPLICATE: 167560

Parameter	Units	2624262004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	484	491	1	10	

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QUALITY CONTROL DATA

Project: Plant Yates Gypsum Storage
Pace Project No.: 2624193

QC Batch: 36992 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2624193001

METHOD BLANK: 167194 Matrix: Water
Associated Lab Samples: 2624193001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.024	10/16/19 00:42	
Fluoride	mg/L	ND	0.30	0.029	10/16/19 00:42	
Sulfate	mg/L	ND	1.0	0.017	10/16/19 00:42	

LABORATORY CONTROL SAMPLE: 167195

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.0	100	90-110	
Fluoride	mg/L	10	10.3	103	90-110	
Sulfate	mg/L	10	10.0	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 167196 167197

Parameter	Units	2624187006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	40.2	10	10	44.8	44.5	47	43	90-110	1	15	M1
Fluoride	mg/L	ND	10	10	10.1	10.4	101	104	90-110	3	15	

MATRIX SPIKE SAMPLE: 167198

Parameter	Units	2624187015 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	ND	10	10.4	104	90-110	

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QUALITY CONTROL DATA

Project: Plant Yates Gypsum Storage
Pace Project No.: 2624193

QC Batch: 36994 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2624193002, 2624193003, 2624193004, 2624193005, 2624193006, 2624193007, 2624193008, 2624193009, 2624193010

METHOD BLANK: 167201 Matrix: Water
Associated Lab Samples: 2624193002, 2624193003, 2624193004, 2624193005, 2624193006, 2624193007, 2624193008, 2624193009, 2624193010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.024	10/16/19 12:51	
Fluoride	mg/L	ND	0.30	0.029	10/16/19 12:51	
Sulfate	mg/L	0.019J	1.0	0.017	10/16/19 12:51	

LABORATORY CONTROL SAMPLE: 167202

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.1	101	90-110	
Fluoride	mg/L	10	10.3	103	90-110	
Sulfate	mg/L	10	10.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 167203 167204

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2624193002 Result	Spike Conc.	Spike Conc.	MS Result						
Chloride	mg/L	6.9	10	10	16.6	16.6	96	97	90-110	0	15
Fluoride	mg/L	ND	10	10	9.9	10.1	99	101	90-110	1	15

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Yates Gypsum Storage

Pace Project No.: 2624193

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.

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.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Gypsum Storage

Pace Project No.: 2624193

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2624193001	GWA-2	EPA 3005A	36894	EPA 6020B	36932
2624193002	GWC-1R	EPA 3005A	36894	EPA 6020B	36932
2624193003	GWC-2R	EPA 3005A	36894	EPA 6020B	36932
2624193004	GWC-3R	EPA 3005A	36894	EPA 6020B	36932
2624193005	GWC-4R	EPA 3005A	36894	EPA 6020B	36932
2624193006	GWC-5R	EPA 3005A	36894	EPA 6020B	36932
2624193007	GWC-6R	EPA 3005A	36894	EPA 6020B	36932
2624193008	EB-1-10-9-19	EPA 3005A	36894	EPA 6020B	36932
2624193009	FB-1-10-8-19	EPA 3005A	36894	EPA 6020B	36932
2624193010	Dup-1	EPA 3005A	36894	EPA 6020B	36932
2624193001	GWA-2	EPA 7470A	36917	EPA 7470A	37089
2624193002	GWC-1R	EPA 7470A	36917	EPA 7470A	37089
2624193003	GWC-2R	EPA 7470A	36917	EPA 7470A	37089
2624193004	GWC-3R	EPA 7470A	36917	EPA 7470A	37089
2624193005	GWC-4R	EPA 7470A	36917	EPA 7470A	37089
2624193006	GWC-5R	EPA 7470A	36917	EPA 7470A	37089
2624193007	GWC-6R	EPA 7470A	36917	EPA 7470A	37089
2624193008	EB-1-10-9-19	EPA 7470A	36917	EPA 7470A	37089
2624193009	FB-1-10-8-19	EPA 7470A	36917	EPA 7470A	37089
2624193010	Dup-1	EPA 7470A	36917	EPA 7470A	37089
2624193001	GWA-2	SM 2540C	36914		
2624193002	GWC-1R	SM 2540C	36986		
2624193003	GWC-2R	SM 2540C	36986		
2624193004	GWC-3R	SM 2540C	37083		
2624193005	GWC-4R	SM 2540C	37083		
2624193006	GWC-5R	SM 2540C	36986		
2624193007	GWC-6R	SM 2540C	36914		
2624193008	EB-1-10-9-19	SM 2540C	36986		
2624193009	FB-1-10-8-19	SM 2540C	36914		
2624193010	Dup-1	SM 2540C	37083		
2624193001	GWA-2	EPA 300.0	36992		
2624193002	GWC-1R	EPA 300.0	36994		
2624193003	GWC-2R	EPA 300.0	36994		
2624193004	GWC-3R	EPA 300.0	36994		
2624193005	GWC-4R	EPA 300.0	36994		
2624193006	GWC-5R	EPA 300.0	36994		
2624193007	GWC-6R	EPA 300.0	36994		
2624193008	EB-1-10-9-19	EPA 300.0	36994		
2624193009	FB-1-10-8-19	EPA 300.0	36994		
2624193010	Dup-1	EPA 300.0	36994		

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Pace Analytical Services, Inc.
 110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
 (770) 734-4200 : FAX (770) 734-4201

PAGE: / OF

CHAIN OF CUSTODY RECORD

CLIENT NAME: Georgia Power		CONTAINER TYPE: P 3		ANALYSIS REQUESTED P 7		L A B		PRESERVATION 1 - HCl, ≤6°C 2 - H ₂ SO ₄ , ≤6°C 3 - HNO ₃ 4 - NaOH, ≤6°C 5 - NaOH/ZnAc, ≤6°C 6 - Na ₂ S ₂ O ₃ , ≤6°C 7 - ≤6°C not frozen	
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308 404-508-7239		PRESERVATION: # of		P 3 3 3 3		I D N U M B E R		CONTAINER TYPE P - PLASTIC A - AMBER GLASS G - CLEAR GLASS V - VOA VIAL S - STERILE O - OTHER	
REPORT TO: Joju Abraham		REQUESTED COMPLETION DATE: PO #:		P 3 7				CONTAINER TYPE DW - DRINKING WATER S - SOIL WW - WASTEWATER SL - SLUDGE GW - GROUNDWATER SD - SOLID SW - SURFACE WATER A - AIR ST - STORM WATER L - LIQUID W - WATER P - PRODUCT	
PROJECT NAME/STATE: Plant Yates - Gypsum Storage		PROJECT #:		P 3 7				REMARKS/ADDITIONAL INFORMATION	
Collection DATE		Collection TIME		MATRIX CODE		SAMPLE IDENTIFICATION			
10-8-19		1515		GW		GWA-2			
10-9-19		1615		GW		GWC-1R			
10-9-19		1720		GW		GWC-2R			
10-10-19		1100		GW		GWC-3R			
10-10-19		1302		GW		GWC-4R			
10-9-19		1045		GW		GWC-5R		extra Rad here time 1730	
10-8-19		1845		GW		GWC-6R			
10-9-19		1800		GW		EB-1-10-9-19			
10-8-19		1710		GW		EB-1-10-8-19			
10-10-19				GW		Dup-1			

SAMPLED BY AND TITLE: P. R. McRae, R. McRae (Acc)	DATE/TIME: 10/10/19 1635	RELINQUISHED BY: [Signature]	DATE/TIME: 10-10-19 1635	LAB #:	FOR LAB USE ONLY
RECEIVED BY: [Signature]	DATE/TIME: 10/10/19 1635	RELINQUISHED BY:	DATE/TIME:		
RECEIVED BY LAB: [Signature]	DATE/TIME: 10/10/19 1635	SAMPLE SHIPPED VIA: UPS	FED-EX	USPS	COURIER
Checked by: Yes No NA	Temperature: Min: Max:	Broken: Yes No Present	Not Present	CLIENT	OTHER FS
Checked App IV Metals: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Lithium, Selenium, Thallium	State Metals list: copper, mercury, nickel, silver, vanadium, zinc	State Metals list: copper, mercury, nickel, silver, vanadium, zinc	Yates - Blank COCs	Entered into LIMS: Tracking #:	

NO# : 2624193



Sample Condition Upon Receipt

Client Name: G.A. Power

Project # _____

WO#: **2624193**

PM: **BM** Due Date: **10/17/19**

CLIENT: **GAPower-CCR**

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 83 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 0.9 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 10/10/19 MK

		Comments:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

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

November 07, 2019

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

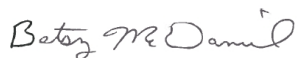
RE: Project: Plant Yates Gypsum Storage
Pace Project No.: 2624195

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on October 10, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Chris Parker, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Yates Gypsum Storage
Pace Project No.: 2624195

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

Project: Plant Yates Gypsum Storage

Pace Project No.: 2624195

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2624195001	GWA-2	Water	10/08/19 15:15	10/10/19 16:35
2624195002	GWC-1R	Water	10/09/19 16:15	10/10/19 16:35
2624195003	GWC-2R	Water	10/09/19 17:20	10/10/19 16:35
2624195004	GWC-3R	Water	10/10/19 11:00	10/10/19 16:35
2624195005	GWC-4R	Water	10/10/19 13:02	10/10/19 16:35
2624195006	GWC-5R	Water	10/09/19 17:30	10/10/19 16:35
2624195007	GWC-6R	Water	10/08/19 16:45	10/10/19 16:35
2624195008	EB-1-10-9-19	Water	10/09/19 18:00	10/10/19 16:35
2624195009	FB-1-10-8-19	Water	10/08/19 17:10	10/10/19 16:35
2624195010	Dup-1	Water	10/10/19 00:00	10/10/19 16:35

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SAMPLE ANALYTE COUNT

Project: Plant Yates Gypsum Storage
Pace Project No.: 2624195

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2624195001	GWA-2	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2624195002	GWC-1R	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2624195003	GWC-2R	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2624195004	GWC-3R	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2624195005	GWC-4R	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2624195006	GWC-5R	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2624195007	GWC-6R	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2624195008	EB-1-10-9-19	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2624195009	FB-1-10-8-19	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2624195010	Dup-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum Storage

Pace Project No.: 2624195

Sample: GWA-2 **Lab ID: 2624195001** Collected: 10/08/19 15:15 Received: 10/10/19 16:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.909 ± 0.414 (0.545) C:91% T:NA	pCi/L	10/25/19 08:20	13982-63-3	
Radium-228	EPA 9320	0.411 ± 0.421 (0.873) C:74% T:82%	pCi/L	10/29/19 15:28	15262-20-1	
Total Radium	Total Radium Calculation	1.32 ± 0.835 (1.42)	pCi/L	11/04/19 14:35	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum Storage

Pace Project No.: 2624195

Sample: GWC-1R **Lab ID: 2624195002** Collected: 10/09/19 16:15 Received: 10/10/19 16:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.458 ± 0.278 (0.386) C:93% T:NA	pCi/L	10/25/19 08:20	13982-63-3	
Radium-228	EPA 9320	0.0239 ± 0.454 (1.04) C:72% T:78%	pCi/L	10/29/19 15:28	15262-20-1	
Total Radium	Total Radium Calculation	0.482 ± 0.732 (1.43)	pCi/L	11/04/19 14:35	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum Storage

Pace Project No.: 2624195

Sample: GWC-2R **Lab ID: 2624195003** Collected: 10/09/19 17:20 Received: 10/10/19 16:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.707 ± 0.347 (0.428) C:92% T:NA	pCi/L	10/25/19 09:17	13982-63-3	
Radium-228	EPA 9320	0.00320 ± 0.332 (0.779) C:73% T:81%	pCi/L	10/29/19 15:28	15262-20-1	
Total Radium	Total Radium Calculation	0.710 ± 0.679 (1.21)	pCi/L	11/05/19 14:23	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum Storage

Pace Project No.: 2624195

Sample: GWC-3R **Lab ID: 2624195004** Collected: 10/10/19 11:00 Received: 10/10/19 16:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.433 ± 0.271 (0.386) C:96% T:NA	pCi/L	10/25/19 08:20	13982-63-3	
Radium-228	EPA 9320	-0.158 ± 0.614 (1.46) C:70% T:79%	pCi/L	10/29/19 18:12	15262-20-1	
Total Radium	Total Radium Calculation	0.433 ± 0.885 (1.85)	pCi/L	11/05/19 14:23	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum Storage

Pace Project No.: 2624195

Sample: GWC-4R **Lab ID: 2624195005** Collected: 10/10/19 13:02 Received: 10/10/19 16:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.525 ± 0.287 (0.333) C:93% T:NA	pCi/L	10/25/19 08:20	13982-63-3	
Radium-228	EPA 9320	-0.306 ± 0.505 (1.25) C:76% T:72%	pCi/L	10/29/19 18:13	15262-20-1	
Total Radium	Total Radium Calculation	0.525 ± 0.792 (1.58)	pCi/L	11/05/19 14:23	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum Storage

Pace Project No.: 2624195

Sample: GWC-5R **Lab ID: 2624195006** Collected: 10/09/19 17:30 Received: 10/10/19 16:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.333 ± 0.236 (0.335) C:99% T:NA	pCi/L	10/25/19 08:20	13982-63-3	
Radium-228	EPA 9320	0.165 ± 0.528 (1.19) C:72% T:83%	pCi/L	10/29/19 18:15	15262-20-1	
Total Radium	Total Radium Calculation	0.498 ± 0.764 (1.53)	pCi/L	11/05/19 14:23	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum Storage

Pace Project No.: 2624195

Sample: GWC-6R **Lab ID: 2624195007** Collected: 10/08/19 16:45 Received: 10/10/19 16:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.652 ± 0.320 (0.358) C:94% T:NA	pCi/L	10/25/19 09:17	13982-63-3	
Radium-228	EPA 9320	0.258 ± 0.512 (1.13) C:73% T:85%	pCi/L	10/29/19 18:17	15262-20-1	
Total Radium	Total Radium Calculation	0.910 ± 0.832 (1.49)	pCi/L	11/05/19 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum Storage

Pace Project No.: 2624195

Sample: EB-1-10-9-19 **Lab ID: 2624195008** Collected: 10/09/19 18:00 Received: 10/10/19 16:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.370 ± 0.239 (0.305) C:94% T:NA	pCi/L	10/25/19 08:24	13982-63-3	
Radium-228	EPA 9320	-0.238 ± 0.460 (1.12) C:73% T:92%	pCi/L	10/29/19 18:11	15262-20-1	
Total Radium	Total Radium Calculation	0.370 ± 0.699 (1.43)	pCi/L	11/05/19 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum Storage

Pace Project No.: 2624195

Sample: FB-1-10-8-19 **Lab ID: 2624195009** Collected: 10/08/19 17:10 Received: 10/10/19 16:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.427 ± 0.294 (0.490) C:96% T:NA	pCi/L	10/25/19 08:15	13982-63-3	
Radium-228	EPA 9320	0.458 ± 0.565 (1.19) C:71% T:83%	pCi/L	10/29/19 18:11	15262-20-1	
Total Radium	Total Radium Calculation	0.885 ± 0.859 (1.68)	pCi/L	11/05/19 14:24	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Gypsum Storage

Pace Project No.: 2624195

Sample: Dup-1 **Lab ID: 2624195010** Collected: 10/10/19 00:00 Received: 10/10/19 16:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.450 ± 0.222 (0.259) C:85% T:NA	pCi/L	11/04/19 08:31	13982-63-3	
Radium-228	EPA 9320	0.529 ± 0.425 (0.849) C:75% T:75%	pCi/L	11/01/19 15:45	15262-20-1	
Total Radium	Total Radium Calculation	0.979 ± 0.647 (1.11)	pCi/L	11/05/19 14:24	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Gypsum Storage

Pace Project No.: 2624195

QC Batch: 366966

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 2624195010

METHOD BLANK: 1780028

Matrix: Water

Associated Lab Samples: 2624195010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.371 ± 0.194 (0.239) C:96% T:NA	pCi/L	11/04/19 08:29	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Gypsum Storage

Pace Project No.: 2624195

QC Batch: 366498

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 2624195001, 2624195002, 2624195003, 2624195004, 2624195005, 2624195006, 2624195007, 2624195008, 2624195009

METHOD BLANK: 1777737

Matrix: Water

Associated Lab Samples: 2624195001, 2624195002, 2624195003, 2624195004, 2624195005, 2624195006, 2624195007, 2624195008, 2624195009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.599 ± 0.309 (0.395) C:98% T:NA	pCi/L	10/25/19 09:42	

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.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Gypsum Storage

Pace Project No.: 2624195

QC Batch: 366967

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 2624195010

METHOD BLANK: 1780030

Matrix: Water

Associated Lab Samples: 2624195010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0313 ± 0.302 (0.696) C:73% T:90%	pCi/L	11/01/19 12:27	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Gypsum Storage

Pace Project No.: 2624195

QC Batch:	366499	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
Associated Lab Samples:	2624195001, 2624195002, 2624195003, 2624195004, 2624195005, 2624195006, 2624195007, 2624195008, 2624195009		

METHOD BLANK:	1777739	Matrix:	Water
Associated Lab Samples:	2624195001, 2624195002, 2624195003, 2624195004, 2624195005, 2624195006, 2624195007, 2624195008, 2624195009		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.720 ± 0.387 (0.688) C:72% T:87%	pCi/L	10/29/19 12:24	

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QUALIFIERS

Project: Plant Yates Gypsum Storage
Pace Project No.: 2624195

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.

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.

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Gypsum Storage
Pace Project No.: 2624195

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2624195001	GWA-2	EPA 9315	366498		
2624195002	GWC-1R	EPA 9315	366498		
2624195003	GWC-2R	EPA 9315	366498		
2624195004	GWC-3R	EPA 9315	366498		
2624195005	GWC-4R	EPA 9315	366498		
2624195006	GWC-5R	EPA 9315	366498		
2624195007	GWC-6R	EPA 9315	366498		
2624195008	EB-1-10-9-19	EPA 9315	366498		
2624195009	FB-1-10-8-19	EPA 9315	366498		
2624195010	Dup-1	EPA 9315	366966		
2624195001	GWA-2	EPA 9320	366499		
2624195002	GWC-1R	EPA 9320	366499		
2624195003	GWC-2R	EPA 9320	366499		
2624195004	GWC-3R	EPA 9320	366499		
2624195005	GWC-4R	EPA 9320	366499		
2624195006	GWC-5R	EPA 9320	366499		
2624195007	GWC-6R	EPA 9320	366499		
2624195008	EB-1-10-9-19	EPA 9320	366499		
2624195009	FB-1-10-8-19	EPA 9320	366499		
2624195010	Dup-1	EPA 9320	366967		
2624195001	GWA-2	Total Radium Calculation	369282		
2624195002	GWC-1R	Total Radium Calculation	369282		
2624195003	GWC-2R	Total Radium Calculation	369490		
2624195004	GWC-3R	Total Radium Calculation	369490		
2624195005	GWC-4R	Total Radium Calculation	369490		
2624195006	GWC-5R	Total Radium Calculation	369490		
2624195007	GWC-6R	Total Radium Calculation	369493		
2624195008	EB-1-10-9-19	Total Radium Calculation	369493		
2624195009	FB-1-10-8-19	Total Radium Calculation	369493		
2624195010	Dup-1	Total Radium Calculation	369493		

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CHAIN OF CUSTODY RECORD

Pace Analytical Services, Inc.
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
(770) 734-4200 : FAX (770) 734-4201

PAGE: 1 OF 1

Main form containing client information (Georgia Power), project name (Plant Yates - Gypsum Storage), collection dates (10-8-19 to 10-10-19), matrix codes (GW, FB), and analysis requested (Metals App. III, IV, V, etc.).

WO#: 2624195



FOR LAB USE ONLY

LAB #:

DATE/TIME: 10-10-19 1635

Entered into LIMS:
Tracking #:

Yates - Blank COCs

Sample Condition Upon Receipt



Client Name: GIA Powere

Project # _____

WO#: 2624195

PM: **BN** Due Date: **11/07/19**
 CLIENT: **GAPower-CCR**

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 83 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 0.9 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 10/10/19 MK

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):	_____	

Client Notification/ Resolution: _____ **Field Data Required?** Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

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

Georgia Power Company – Plant Yates Gypsum Storage Quality Control Review of Analytical Data – October 2019

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Pace Analytical Services, Atlanta and Pittsburgh for groundwater samples collected at Plant Yates Gypsum Storage between October 8, 2019 and October 10, 2019. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision-making purposes.

Information regarding the primary sample locations, analytical parameters, QC samples, sampling dates, and laboratory sample delivery group (SDG) designations is summarized in Table 1 of this Appendix. SDG 2624193 was revised by the laboratory to remove a non-target analyte that was not requested on the chain of custody (COC).

In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 CFR, Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detected monitoring constituents listed in 40 CFR, Part 257, Appendix III and assessment monitoring constituents listed in 40 CFR, Part 257, Appendix IV. Test methods included Inductively Coupled Plasma – Mass Spectrometry (USEPA Method 6020B), Mercury in Liquid Wastes (USEPA Method 7470A), Determination of Inorganic Anions (USEPA Method 300.0), Solids in Water (Standard Methods 2540C), Radium-226 (USEPA 9315), and Radium-228 (USEPA Method 9320).

Data were reviewed in accordance with the US EPA 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. 2.0)¹ and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)². The review included an assessment of the results for completeness, precision (laboratory duplicate recoveries and matrix spike/matrix spike duplicate recoveries), accuracy (laboratory control samples and matrix spike samples), and blank contamination (field, equipment, and laboratory blanks). Sample receipt conditions, holding times, and COCs were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were used.

DATA QUALITY OBJECTIVES

Laboratory Precision: Laboratory goals for precision were met, with the exceptions of Total Dissolved Solids (TDS) on GWC-3R (2624193004) and Radium-226 on GWC-4R (2624195005) as described in the qualifications section below. Radium-228 in SDG 2624195 yielded a relative percent difference (RPD) for the laboratory control samples/laboratory control sample duplicates that exceeded the QC criteria (53.11% above the limit of 36); this batch was passed on the individual recoveries, and no qualification was necessary.

Field Precision: Field goals for precision were met, with the exception of Chromium on GWC-3R (2624193004) and DUP-1 (2624193010) as described in the qualifications section below.

Accuracy: Laboratory goals for accuracy were met.

Detection Limits: Project goals for detection limits were met.

Completeness: There were no rejected analytical results for this event, resulting in a completion of 100%.

Holding Times: Holding time requirements were met.

QUALIFICATIONS

In general, chemical results for the samples collected at the site were qualified on the basis of low precision or low accuracy or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data by the laboratory during the validation process:

J: The analyte was positively identified above the method detection limit; however, the associated numerical value is the approximate concentration of the analyte in the sample

ND: The analyte was not detected above the method detection limit

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines except as specified below. The applied qualifications may not have been required for all samples collected at the site. A summary of sample qualifications can be found in Table 2 of this Appendix.

- Sample GWC-3R (2624193004) was qualified as estimated (J) for TDS as the laboratory RPD exceeded QC criteria (21% above limit of 10).
- Sample GWC-4R (2624195005) was qualified as estimated (J) for Radium-226 as the laboratory RPD exceeded QC criteria (34.24% above limit of 25).
- Samples GWC-3R (2624193004) and DUP-1 (2624193010) were qualified as estimated (J) for Chromium as the field RPD exceeded QC criteria (173.8% above limit of 25).
- Certain Chromium and Zinc results in SDG 2624193 were qualified as non-detect (ND) due to the analyte being detected at a similar concentration in an associated blank sample. As shown in Table 2, when the original sample result was above the reporting limit (RL), both the RL and method detection limit (MDL) were raised to the sample result as part of the qualification process. When the original sample result was between the RL and MDL, only the MDL was raised to the sample result as part of the qualification process.
- Certain radium results in SDG 2624195 were qualified as non-detect (ND) due to the analyte being detected at a similar concentration in an associated blank sample. As shown in Table 2, the minimum detectable concentration (MDC) was raised to the sample result as part of the qualification process.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from the Plant Yates Gypsum Storage sampled between October 8, 2019 and October 10, 2019 in accordance with the analytical methods, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

REFERENCES

¹USEPA, September 2011, Region 4, Science and Ecosystem Support Division, Quality Assurance Section, MTSB, Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy, Revision 2.0

²USEPA, January 2017, National Office of Superfund Remediation and Technology Innovation, National Functional Guidelines for Inorganic Superfund Methods Data Review, Revision 0.0

TABLE 1

Georgia Power Company – Plant Yates Gypsum Storage

Sample Summary Table – October 2019

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Metals (6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (9315, 9320)
24193	GWA-2	10/8/2019	2624193001	GW		X	X	X	
24195	GWA-2	10/8/2019	2624195001	GW					X
24193	GWC-1R	10/9/2019	2624193002	GW		X	X	X	
24195	GWC-1R	10/9/2019	2624195002	GW					X
24193	GWC-2R	10/9/2019	2624193003	GW		X	X	X	
24195	GWC-2R	10/9/2019	2624195003	GW					X
24193	GWC-3R	10/10/2019	2624193004	GW		X	X	X	
24195	GWC-3R	10/10/2019	2624195004	GW					X
24193	GWC-4R	10/10/2019	2624193005	GW		X	X	X	
24195	GWC-4R	10/10/2019	2624195005	GW					X
24193	GWC-5R	10/9/2019	2624193006	GW		X	X	X	
24195	GWC-5R	10/9/2019	2624195006	GW					X
24193	GWC-6R	10/8/2019	2624193007	GW		X	X	X	
24195	GWC-6R	10/8/2019	2624195007	GW					X
24193	EB-1-10-9-19	10/9/2019	2624193008	WQ	EB	X	X	X	
24195	EB-1-10-9-19	10/9/2019	2624195008	WQ	EB				X
24193	FB-1-10-8-19	10/8/2019	2624193009	WQ	FB	X	X	X	
24195	FB-1-10-8-19	10/8/2019	2624195009	WQ	FB				X
24193	DUP-1	10/10/2019	2624193010	GW	FD (GWC-3R)	X	X	X	
24195	DUP-1	10/10/2019	2624195010	GW	FD (GWC-3R)				X

Abbreviations:

EB – Equipment Blank

FB – Field Blank

FD – Field Duplicate

GW – Groundwater

QC – Quality Control

TDS – Total Dissolved Solids

WQ – Water Quality Control

TABLE 2

Georgia Power Company – Plant Yates Gypsum Storage

Qualifier Summary Table – October 2019

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
24193	GWA-2	Zinc		0.0078	ND	Blank detection
24193	GWC-1R	Chromium		0.0012	ND	Blank detection
24193	GWC-1R	Zinc		0.0078	ND	Blank detection
24193	GWC-2R	Chromium		0.00059	ND	Blank detection
24193	GWC-2R	Zinc		0.0069	ND	Blank detection
24193	GWC-3R	Chromium			J	RPD exceeds field goal
24193	DUP-1	Chromium			J	RPD exceeds field goal
24193	GWC-3R	Zinc		0.0079	ND	Blank detection
24193	GWC-3R	TDS			J	RPD exceeds laboratory goal
24193	GWC-4R	Chromium		0.00057	ND	Blank detection
24193	GWC-4R	Zinc		0.006	ND	Blank detection
24193	GWC-5R	Chromium		0.0024	ND	Blank detection
24193	GWC-5R	Zinc	0.025	0.025	ND	Blank detection
24193	GWC-6R	Chromium		0.0014	ND	Blank detection
24193	GWC-6R	Zinc		0.006	ND	Blank detection
24195	GWC-1R	Radium-226		0.386	ND	Blank detection
24195	GWC-3R	Radium-226		0.386	ND	Blank detection
24195	GWC-4R	Radium-226			J	RPD exceeds laboratory goal
24195	GWC-5R	Radium-226		0.335	ND	Blank detection
24195	GWC-6R	Radium-226		0.358	ND	Blank detection

Abbreviations:

MDC – Minimum Detectable Concentration
MS/MSD – Matrix Spike / Matrix Spike Duplicate
MDL – Method Detection Limit
RL – Reporting Limit
RPD – Relative Percent Difference
SDG – Sample Delivery Group

Qualifiers:

J – Estimated Result
ND – Non-Detect Result

January 28, 2020

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: GP Plant Yates Gypsum
Pace Project No.: 2628071

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on January 21, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



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

Enclosures

cc: Kristen Jurinko
Matt Malone, Atlantic Coast Consulting
Betsy McDaniel, Atlantic Coast Consulting
Chris Parker, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.
Ryan Walker



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: GP Plant Yates Gypsum
Pace Project No.: 2628071

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: GP Plant Yates Gypsum
Pace Project No.: 2628071

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2628071001	GWC-5R	Water	01/21/20 12:15	01/21/20 14:18

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: GP Plant Yates Gypsum

Pace Project No.: 2628071

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2628071001	GWC-5R	EPA 6020B	CSW	1

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: GP Plant Yates Gypsum

Pace Project No.: 2628071

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2628071001	GWC-5R					
EPA 6020B	Zinc	0.015	mg/L	0.010	01/27/20 18:12	

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ANALYTICAL RESULTS

Project: GP Plant Yates Gypsum
Pace Project No.: 2628071

Sample: GWC-5R		Lab ID: 2628071001	Collected: 01/21/20 12:15	Received: 01/21/20 14:18	Matrix: Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A						
Zinc	0.015	mg/L	0.010	1	01/26/20 17:57	01/27/20 18:12	7440-66-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: GP Plant Yates Gypsum

Pace Project No.: 2628071

QC Batch: 42403	Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A	Analysis Description: 6020B MET
Associated Lab Samples: 2628071001	

METHOD BLANK: 193552 Matrix: Water

Associated Lab Samples: 2628071001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Zinc	mg/L	ND	0.010	01/27/20 15:39	

LABORATORY CONTROL SAMPLE: 193553

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 193554 193555

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2628071001 Result	Spike Conc.	Spike Conc.	Result								
Zinc	mg/L	0.015	0.1	0.1	0.11	0.11	98	98	75-125	1	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: GP Plant Yates Gypsum

Pace Project No.: 2628071

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.

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.

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

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: GP Plant Yates Gypsum
Pace Project No.: 2628071

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2628071001	GWC-5R	EPA 3005A	42403	EPA 6020B	42413

REPORT OF LABORATORY ANALYSIS

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Billng Information:

Company: Atlantic Coast Consulting

Address: 1150 Nuthurwood Hwy, Russell GA

Report To: Evan Perry

Copy To: Site Collection Info/Address: YATES - NEWTON

Customer Project Name/Number: YATES - Gypsum

State: GA / County/City: BA /

Time Zone Collected: [] PT [] MT [] CT [] ET

Compliance Monitoring? [] Yes [] No

DW PWS ID #: DW Location Code: Immediately Packed on Ice:

Quote #: DW PWS ID #: DW Location Code: Immediately Packed on Ice:

Turnaround Time Required: Rush: [] Same Day [] Next Day [] 3 Day [] 4 Day [] 5 Day

Field Filtered (if applicable): [] Yes [] No

Analysis: (M 5 Day)

* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
602-SR	GW	6	1-21-20	12:15				1

Customer Remarks / Special Conditions / Possible Hazards:

Type of Ice Used: Wet Blue Dry None

Packing Material Used:

Radchem sample(s) screened (<500 cpm): Y N NA

Received by/Company: (Signature) Date/Time: 1-21-20 / 1400

Relinquished by/Company: (Signature) Date/Time:

Lab Tracking #: 2433223

SHORT HOLDS PRESENT (<72 hours): Y N N/A

Samples received via: FEDEX UPS Client

Courier Pace Courier

MTLL LAB USE ONLY

Table #: _____

Accnum: _____

Template: _____

Prelogin: _____

PM: _____

PB: _____

Lab Sample Temperature Info:

Temp Blank Received: _____ N NA

Therm ID#: _____

Cooler 1 Temp Upon Receipt: 1.0 oc

Cooler 1 Therm Corr. Factor: 0 oc

Cooler 1 Corrected Temp: 1.0 oc

Comments: _____

Temp Blank Received: Y N NA

HCL MeOH TSP Other

Non Conformance(s): _____

Page: _____ of: _____

MO# : 2628071

PH: MZP

CLIENT: ACC

Due Date: 01/28/20

MO# : 2628071

2628071

Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Lab Profile/Line:

Lab Sample Receipt Checklist:

Custody Seals Present/Intact: [] N NA

Custody Signatures Present: [] N NA

Collector Signatures Present: [] N NA

Bottles Intact: [] N NA

Correct Bottles Sufficient Volume: [] N NA

Samples Received on Ice: [] N NA

VOA - Headspace Acceptable: [] N NA

USDA Regulated Solids: [] N NA

Samples in Holding Time: [] N NA

Residual Chlorine Present: [] N NA

Cl Strips: [] N NA

Sample pH Acceptable: [] N NA

pH Strips: [] N NA

Sulfide Present: [] N NA

Lead Acetate Strips: [] N NA

LAB USE ONLY: Lab Sample # / Comments: 5 Day TAT

March 2020

Semiannual Event



May 06, 2020

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: PLANT YATES GYPSUM STORAGE
Pace Project No.: 2630255

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between March 18, 2020 and March 20, 2020. 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 - Atlanta, GA

This report was revised 4/8/20 to correct a reporting error for sample DUP-1.

This report was revised 4/20/20 to add additional metals per client request.

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

Sincerely,



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

Enclosures

cc: Monte Jones, ACC
Kristen Jurinko

Matt Malone, Atlantic Coast Consulting
Betsy McDaniel, Atlantic Coast Consulting



REPORT OF LABORATORY ANALYSIS

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May 06, 2020
Page 2

cc: Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.
Ryan Walker



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: PLANT YATES GYPSUM STORAGE
Pace Project No.: 2630255

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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
Guam Certification
Florida: Cert E871149 SEKS WET
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: PLANT YATES GYPSUM STORAGE
Pace Project No.: 2630255

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2630255001	GWA-2	Water	03/17/20 11:50	03/18/20 17:00
2630255002	GWC-6R	Water	03/17/20 13:00	03/18/20 17:00
2630255003	FB-1-3-17-20	Water	03/17/20 13:10	03/18/20 17:00
2630255004	GWC-3R	Water	03/17/20 14:25	03/18/20 17:00
2630255005	GWC-1R	Water	03/17/20 15:35	03/18/20 17:00
2630255006	EB-1-3-18-20	Water	03/18/20 10:30	03/18/20 17:00
2630255007	GWC-5R	Water	03/18/20 11:30	03/18/20 17:00
2630255008	GWC-4R	Water	03/18/20 12:40	03/20/20 14:10
2630255010	GWC-2R	Water	03/18/20 14:15	03/20/20 14:10
2630320010	DUP-1	Water	03/18/20 00:00	03/20/20 14:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PLANT YATES GYPSUM STORAGE
Pace Project No.: 2630255

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2630255001	GWA-2	EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630255002	GWC-6R	EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630255003	FB-1-3-17-20	EPA 6010D	KLH	2	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630255004	GWC-3R	EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630255005	GWC-1R	EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630255006	EB-1-3-18-20	EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630255007	GWC-5R	EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630255008	GWC-4R	EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630255010	GWC-2R	EPA 6010D	DRB	2	PASI-GA
		EPA 6020B	CSW	16	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630320010	DUP-1	EPA 6010D	KLH	2	PASI-GA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PLANT YATES GYPSUM STORAGE
Pace Project No.: 2630255

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020B	CSW	16	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

PASI-A = Pace Analytical Services - Asheville
PASI-GA = Pace Analytical Services - Atlanta, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT YATES GYPSUM STORAGE

Pace Project No.: 2630255

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2630255001	GWA-2					
	Field pH	6.14	Std. Units		03/23/20 09:09	
EPA 6010D	Calcium	24.3	mg/L	1.0	03/25/20 19:22	
EPA 6020B	Barium	0.047	mg/L	0.010	03/25/20 17:37	
EPA 6020B	Boron	0.0051J	mg/L	0.10	03/25/20 17:37	
EPA 6020B	Cobalt	0.0030J	mg/L	0.0050	03/25/20 17:37	
EPA 6020B	Copper	0.00078J	mg/L	0.0050	03/25/20 17:37	
EPA 6020B	Lithium	0.0017J	mg/L	0.030	03/25/20 17:37	
EPA 6020B	Nickel	0.0066	mg/L	0.0050	03/25/20 17:37	
SM 2540C	Total Dissolved Solids	185	mg/L	10.0	03/23/20 18:11	
EPA 300.0 Rev 2.1 1993	Chloride	4.8	mg/L	1.0	03/21/20 23:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.053J	mg/L	0.30	03/21/20 23:54	
EPA 300.0 Rev 2.1 1993	Sulfate	98.6	mg/L	1.0	03/21/20 23:54	M1
2630255002	GWC-6R					
	Field pH	5.97	Std. Units		03/23/20 09:09	
EPA 6010D	Calcium	66.8	mg/L	1.0	03/25/20 19:26	
EPA 6020B	Barium	0.031	mg/L	0.010	03/25/20 17:43	
EPA 6020B	Chromium	0.0013J	mg/L	0.010	03/25/20 17:43	
EPA 6020B	Copper	0.00091J	mg/L	0.0050	03/25/20 17:43	
EPA 6020B	Lithium	0.0018J	mg/L	0.030	03/25/20 17:43	
EPA 6020B	Nickel	0.0011J	mg/L	0.0050	03/25/20 17:43	
EPA 6020B	Selenium	0.0026J	mg/L	0.010	03/25/20 17:43	
EPA 6020B	Vanadium	0.00098J	mg/L	0.010	03/25/20 17:43	
SM 2540C	Total Dissolved Solids	588	mg/L	10.0	03/23/20 18:11	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	03/22/20 00:36	
EPA 300.0 Rev 2.1 1993	Sulfate	303	mg/L	6.0	03/22/20 09:44	
2630255004	GWC-3R					
	Field pH	5.03	Std. Units		03/23/20 09:09	
EPA 6010D	Calcium	20.3	mg/L	1.0	03/25/20 19:33	
EPA 6020B	Arsenic	0.0016J	mg/L	0.0050	03/25/20 18:13	
EPA 6020B	Barium	0.024	mg/L	0.010	03/25/20 18:13	
EPA 6020B	Beryllium	0.00095J	mg/L	0.0030	03/25/20 18:13	
EPA 6020B	Boron	0.0099J	mg/L	0.10	03/25/20 18:13	
EPA 6020B	Cadmium	0.00037J	mg/L	0.0025	03/25/20 18:13	
EPA 6020B	Chromium	0.0013J	mg/L	0.010	03/25/20 18:13	
EPA 6020B	Cobalt	0.011	mg/L	0.0050	03/25/20 18:13	
EPA 6020B	Copper	0.00039J	mg/L	0.0050	03/25/20 18:13	
EPA 6020B	Lead	0.00015J	mg/L	0.0050	03/25/20 18:13	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	03/25/20 18:13	
EPA 6020B	Nickel	0.00056J	mg/L	0.0050	03/25/20 18:13	
EPA 6020B	Selenium	0.0096J	mg/L	0.010	04/20/20 18:51	
SM 2540C	Total Dissolved Solids	175	mg/L	10.0	03/23/20 18:11	
EPA 300.0 Rev 2.1 1993	Chloride	5.2	mg/L	1.0	03/22/20 01:04	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10J	mg/L	0.30	03/22/20 01:04	
EPA 300.0 Rev 2.1 1993	Sulfate	95.2	mg/L	2.0	03/22/20 14:57	
2630255005	GWC-1R					
	Field pH	5.70	Std. Units		03/23/20 09:09	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT YATES GYPSUM STORAGE

Pace Project No.: 2630255

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2630255005	GWC-1R					
EPA 6010D	Calcium	36.7	mg/L	1.0	03/25/20 19:37	
EPA 6020B	Barium	0.031	mg/L	0.010	03/25/20 18:19	
EPA 6020B	Beryllium	0.000076J	mg/L	0.0030	03/25/20 18:19	
EPA 6020B	Boron	0.092J	mg/L	0.10	03/25/20 18:19	
EPA 6020B	Chromium	0.0010J	mg/L	0.010	03/25/20 18:19	
EPA 6020B	Cobalt	0.00054J	mg/L	0.0050	03/25/20 18:19	
EPA 6020B	Copper	0.00040J	mg/L	0.0050	03/25/20 18:19	
EPA 6020B	Lithium	0.00094J	mg/L	0.030	03/25/20 18:19	
EPA 6020B	Nickel	0.00087J	mg/L	0.0050	03/25/20 18:19	
EPA 6020B	Selenium	0.0017J	mg/L	0.010	03/25/20 18:19	
SM 2540C	Total Dissolved Solids	306	mg/L	10.0	03/23/20 18:12	
EPA 300.0 Rev 2.1 1993	Chloride	15.5	mg/L	1.0	03/22/20 01:18	
EPA 300.0 Rev 2.1 1993	Sulfate	145	mg/L	3.0	03/22/20 09:58	
2630255007	GWC-5R					
	Field pH	4.88	Std. Units		03/23/20 09:09	
EPA 6010D	Calcium	149	mg/L	1.0	03/25/20 19:50	
EPA 6010D	Zinc	0.023	mg/L	0.020	03/25/20 19:50	
EPA 6020B	Arsenic	0.00080J	mg/L	0.0050	03/25/20 18:30	
EPA 6020B	Barium	0.015	mg/L	0.010	03/25/20 18:30	
EPA 6020B	Beryllium	0.0028J	mg/L	0.0030	03/25/20 18:30	
EPA 6020B	Boron	0.034J	mg/L	0.10	03/25/20 18:30	
EPA 6020B	Cadmium	0.0012J	mg/L	0.0025	03/25/20 18:30	
EPA 6020B	Chromium	0.0023J	mg/L	0.010	03/25/20 18:30	
EPA 6020B	Cobalt	0.00044J	mg/L	0.0050	03/25/20 18:30	
EPA 6020B	Copper	0.00097J	mg/L	0.0050	03/25/20 18:30	
EPA 6020B	Lead	0.000079J	mg/L	0.0050	03/25/20 18:30	
EPA 6020B	Lithium	0.0017J	mg/L	0.030	03/25/20 18:30	
EPA 6020B	Nickel	0.0020J	mg/L	0.0050	03/25/20 18:30	
EPA 6020B	Selenium	0.028	mg/L	0.010	03/25/20 18:30	
SM 2540C	Total Dissolved Solids	1520	mg/L	10.0	03/23/20 18:14	
EPA 300.0 Rev 2.1 1993	Chloride	3.8	mg/L	1.0	03/22/20 01:46	
EPA 300.0 Rev 2.1 1993	Sulfate	960	mg/L	20.0	03/22/20 10:12	
2630255008	GWC-4R					
	Field pH	5.58	Std. Units		03/23/20 09:09	
EPA 6010D	Calcium	76.6	mg/L	1.0	03/25/20 16:56	
EPA 6020B	Barium	0.038	mg/L	0.010	03/26/20 17:49	
EPA 6020B	Boron	5.4	mg/L	0.10	03/26/20 17:49	
EPA 6020B	Cobalt	0.0031J	mg/L	0.0050	03/26/20 17:49	
EPA 6020B	Copper	0.00021J	mg/L	0.0050	03/26/20 17:49	
EPA 6020B	Nickel	0.0026J	mg/L	0.0050	03/26/20 17:49	
EPA 6020B	Selenium	0.0046J	mg/L	0.010	03/26/20 17:49	
SM 2540C	Total Dissolved Solids	703	mg/L	10.0	03/23/20 18:14	
EPA 300.0 Rev 2.1 1993	Chloride	233	mg/L	5.0	03/27/20 16:41	
EPA 300.0 Rev 2.1 1993	Sulfate	199	mg/L	5.0	03/27/20 16:41	
2630255010	GWC-2R					
	Field pH	5.38	Std. Units		03/23/20 09:09	

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SUMMARY OF DETECTION

Project: PLANT YATES GYPSUM STORAGE

Pace Project No.: 2630255

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2630255010	GWC-2R					
EPA 6010D	Calcium	34.5	mg/L	1.0	03/25/20 17:03	
EPA 6020B	Barium	0.040	mg/L	0.010	03/26/20 18:00	
EPA 6020B	Beryllium	0.00012J	mg/L	0.0030	03/26/20 18:00	
EPA 6020B	Boron	0.026J	mg/L	0.10	03/26/20 18:00	
EPA 6020B	Chromium	0.00040J	mg/L	0.010	03/26/20 18:00	
EPA 6020B	Cobalt	0.019	mg/L	0.0050	03/26/20 18:00	
EPA 6020B	Lithium	0.0053J	mg/L	0.030	03/26/20 18:00	
EPA 6020B	Nickel	0.00063J	mg/L	0.0050	03/26/20 18:00	
EPA 6020B	Selenium	0.0032J	mg/L	0.010	03/26/20 18:00	
SM 2540C	Total Dissolved Solids	351	mg/L	10.0	03/23/20 18:14	
EPA 300.0 Rev 2.1 1993	Chloride	11.7	mg/L	1.0	03/26/20 18:11	
EPA 300.0 Rev 2.1 1993	Sulfate	200	mg/L	4.0	03/27/20 16:56	
2630320010	DUP-1					
EPA 6010D	Calcium	75.8	mg/L	1.0	03/26/20 13:00	
EPA 6020B	Barium	0.041	mg/L	0.010	03/27/20 16:20	
EPA 6020B	Beryllium	0.000083J	mg/L	0.0030	03/27/20 16:20	
EPA 6020B	Boron	5.3	mg/L	0.10	03/27/20 16:20	
EPA 6020B	Cadmium	0.00013J	mg/L	0.0025	03/27/20 16:20	
EPA 6020B	Chromium	0.00040J	mg/L	0.010	03/27/20 16:20	
EPA 6020B	Cobalt	0.0031J	mg/L	0.0050	03/27/20 16:20	
EPA 6020B	Copper	0.00028J	mg/L	0.0050	03/27/20 16:20	
EPA 6020B	Nickel	0.0026J	mg/L	0.0050	03/27/20 16:20	
EPA 6020B	Selenium	0.0042J	mg/L	0.010	03/27/20 16:20	
SM 2540C	Total Dissolved Solids	610	mg/L	10.0	03/24/20 14:09	
EPA 300.0 Rev 2.1 1993	Chloride	239	mg/L	5.0	03/27/20 21:20	M6
EPA 300.0 Rev 2.1 1993	Sulfate	199	mg/L	5.0	03/27/20 21:20	M6

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ANALYTICAL RESULTS

Project: PLANT YATES GYPSUM STORAGE

Pace Project No.: 2630255

Sample: GWA-2		Lab ID: 2630255001		Collected: 03/17/20 11:50		Received: 03/18/20 17:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	6.14	Std. Units			1		03/23/20 09:09		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	24.3	mg/L	1.0	0.14	1	03/24/20 18:06	03/25/20 19:22	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	03/24/20 18:06	03/25/20 19:22	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	03/23/20 20:01	03/25/20 17:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/23/20 20:01	03/25/20 17:37	7440-38-2	
Barium	0.047	mg/L	0.010	0.00049	1	03/23/20 20:01	03/25/20 17:37	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/23/20 20:01	03/25/20 17:37	7440-41-7	
Boron	0.0051J	mg/L	0.10	0.0049	1	03/23/20 20:01	03/25/20 17:37	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/23/20 20:01	03/25/20 17:37	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/23/20 20:01	03/25/20 17:37	7440-47-3	
Cobalt	0.0030J	mg/L	0.0050	0.00030	1	03/23/20 20:01	03/25/20 17:37	7440-48-4	
Copper	0.00078J	mg/L	0.0050	0.00019	1	03/23/20 20:01	03/25/20 17:37	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/23/20 20:01	03/25/20 17:37	7439-92-1	
Lithium	0.0017J	mg/L	0.030	0.00078	1	03/23/20 20:01	03/25/20 17:37	7439-93-2	
Nickel	0.0066	mg/L	0.0050	0.00031	1	03/23/20 20:01	03/25/20 17:37	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/23/20 20:01	03/25/20 17:37	7782-49-2	
Silver	ND	mg/L	0.0050	0.00028	1	03/23/20 20:01	03/25/20 17:37	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/23/20 20:01	03/25/20 17:37	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/23/20 20:01	03/25/20 17:37	7440-62-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	185	mg/L	10.0	10.0	1		03/23/20 18:11		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	4.8	mg/L	1.0	0.60	1		03/21/20 23:54	16887-00-6	
Fluoride	0.053J	mg/L	0.30	0.050	1		03/21/20 23:54	16984-48-8	
Sulfate	98.6	mg/L	1.0	0.50	1		03/21/20 23:54	14808-79-8	M1

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ANALYTICAL RESULTS

Project: PLANT YATES GYPSUM STORAGE
Pace Project No.: 2630255

Sample: GWC-6R		Lab ID: 2630255002		Collected: 03/17/20 13:00		Received: 03/18/20 17:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	5.97	Std. Units			1		03/23/20 09:09		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	66.8	mg/L	1.0	0.14	1	03/24/20 18:06	03/25/20 19:26	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	03/24/20 18:06	03/25/20 19:26	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	03/23/20 20:01	03/25/20 17:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/23/20 20:01	03/25/20 17:43	7440-38-2	
Barium	0.031	mg/L	0.010	0.00049	1	03/23/20 20:01	03/25/20 17:43	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/23/20 20:01	03/25/20 17:43	7440-41-7	
Boron	ND	mg/L	0.10	0.0049	1	03/23/20 20:01	03/25/20 17:43	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/23/20 20:01	03/25/20 17:43	7440-43-9	
Chromium	0.0013J	mg/L	0.010	0.00039	1	03/23/20 20:01	03/25/20 17:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/23/20 20:01	03/25/20 17:43	7440-48-4	
Copper	0.00091J	mg/L	0.0050	0.00019	1	03/23/20 20:01	03/25/20 17:43	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/23/20 20:01	03/25/20 17:43	7439-92-1	
Lithium	0.0018J	mg/L	0.030	0.00078	1	03/23/20 20:01	03/25/20 17:43	7439-93-2	
Nickel	0.0011J	mg/L	0.0050	0.00031	1	03/23/20 20:01	03/25/20 17:43	7440-02-0	
Selenium	0.0026J	mg/L	0.010	0.0013	1	03/23/20 20:01	03/25/20 17:43	7782-49-2	
Silver	ND	mg/L	0.0050	0.00028	1	03/23/20 20:01	03/25/20 17:43	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/23/20 20:01	03/25/20 17:43	7440-28-0	
Vanadium	0.00098J	mg/L	0.010	0.00071	1	03/23/20 20:01	03/25/20 17:43	7440-62-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	588	mg/L	10.0	10.0	1		03/23/20 18:11		
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		03/22/20 00:36	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/22/20 00:36	16984-48-8	
Sulfate	303	mg/L	6.0	3.0	6		03/22/20 09:44	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT YATES GYPSUM STORAGE
Pace Project No.: 2630255

Sample: FB-1-3-17-20		Lab ID: 2630255003		Collected: 03/17/20 13:10		Received: 03/18/20 17:00		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA								
Calcium	ND	mg/L	1.0	0.14	1	03/24/20 18:06	03/26/20 16:08	7440-70-2		
Zinc	ND	mg/L	0.020	0.018	1	03/24/20 18:06	03/26/20 16:08	7440-66-6		
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA								
Antimony	ND	mg/L	0.0030	0.00027	1	03/23/20 20:01	03/25/20 17:48	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	03/23/20 20:01	03/25/20 17:48	7440-38-2		
Barium	ND	mg/L	0.010	0.00049	1	03/23/20 20:01	03/25/20 17:48	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	03/23/20 20:01	03/25/20 17:48	7440-41-7		
Boron	ND	mg/L	0.10	0.0049	1	03/23/20 20:01	03/25/20 17:48	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	03/23/20 20:01	03/25/20 17:48	7440-43-9		
Chromium	ND	mg/L	0.010	0.00039	1	03/23/20 20:01	03/25/20 17:48	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	03/23/20 20:01	03/25/20 17:48	7440-48-4		
Copper	ND	mg/L	0.0050	0.00019	1	03/23/20 20:01	03/25/20 17:48	7440-50-8		
Lead	ND	mg/L	0.0050	0.000046	1	03/23/20 20:01	03/25/20 17:48	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	03/23/20 20:01	03/25/20 17:48	7439-93-2		
Nickel	ND	mg/L	0.0050	0.00031	1	03/23/20 20:01	03/25/20 17:48	7440-02-0		
Selenium	ND	mg/L	0.010	0.0013	1	03/23/20 20:01	03/25/20 17:48	7782-49-2		
Silver	ND	mg/L	0.0050	0.00028	1	03/23/20 20:01	03/25/20 17:48	7440-22-4		
Thallium	ND	mg/L	0.0010	0.000052	1	03/23/20 20:01	03/25/20 17:48	7440-28-0		
Vanadium	ND	mg/L	0.010	0.00071	1	03/23/20 20:01	03/25/20 17:48	7440-62-2		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/23/20 18:11			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		03/22/20 00:50	16887-00-6		
Fluoride	ND	mg/L	0.30	0.050	1		03/22/20 00:50	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		03/22/20 00:50	14808-79-8		

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ANALYTICAL RESULTS

Project: PLANT YATES GYPSUM STORAGE
Pace Project No.: 2630255

Sample: GWC-3R		Lab ID: 2630255004		Collected: 03/17/20 14:25		Received: 03/18/20 17:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	5.03	Std. Units			1		03/23/20 09:09		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	20.3	mg/L	1.0	0.14	1	03/24/20 18:06	03/25/20 19:33	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	03/24/20 18:06	03/25/20 19:33	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	03/23/20 20:01	03/25/20 18:13	7440-36-0	
Arsenic	0.0016J	mg/L	0.0050	0.00035	1	03/23/20 20:01	03/25/20 18:13	7440-38-2	
Barium	0.024	mg/L	0.010	0.00049	1	03/23/20 20:01	03/25/20 18:13	7440-39-3	
Beryllium	0.00095J	mg/L	0.0030	0.000074	1	03/23/20 20:01	03/25/20 18:13	7440-41-7	
Boron	0.0099J	mg/L	0.10	0.0049	1	03/23/20 20:01	03/25/20 18:13	7440-42-8	
Cadmium	0.00037J	mg/L	0.0025	0.00011	1	03/23/20 20:01	03/25/20 18:13	7440-43-9	
Chromium	0.0013J	mg/L	0.010	0.00039	1	03/23/20 20:01	03/25/20 18:13	7440-47-3	
Cobalt	0.011	mg/L	0.0050	0.00030	1	03/23/20 20:01	03/25/20 18:13	7440-48-4	
Copper	0.00039J	mg/L	0.0050	0.00019	1	03/23/20 20:01	03/25/20 18:13	7440-50-8	
Lead	0.00015J	mg/L	0.0050	0.000046	1	03/23/20 20:01	03/25/20 18:13	7439-92-1	
Lithium	0.0012J	mg/L	0.030	0.00078	1	03/23/20 20:01	03/25/20 18:13	7439-93-2	
Nickel	0.00056J	mg/L	0.0050	0.00031	1	03/23/20 20:01	03/25/20 18:13	7440-02-0	
Selenium	0.0096J	mg/L	0.010	0.0013	1	04/20/20 14:20	04/20/20 18:51	7782-49-2	
Silver	ND	mg/L	0.0050	0.00028	1	03/23/20 20:01	03/25/20 18:13	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/23/20 20:01	03/25/20 18:13	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/23/20 20:01	03/25/20 18:13	7440-62-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	175	mg/L	10.0	10.0	1		03/23/20 18:11		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	5.2	mg/L	1.0	0.60	1		03/22/20 01:04	16887-00-6	
Fluoride	0.10J	mg/L	0.30	0.050	1		03/22/20 01:04	16984-48-8	
Sulfate	95.2	mg/L	2.0	1.0	2		03/22/20 14:57	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT YATES GYPSUM STORAGE
Pace Project No.: 2630255

Sample: GWC-1R		Lab ID: 2630255005		Collected: 03/17/20 15:35		Received: 03/18/20 17:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	5.70	Std. Units			1		03/23/20 09:09		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	36.7	mg/L	1.0	0.14	1	03/24/20 18:06	03/25/20 19:37	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	03/24/20 18:06	03/25/20 19:37	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	03/23/20 20:01	03/25/20 18:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/23/20 20:01	03/25/20 18:19	7440-38-2	
Barium	0.031	mg/L	0.010	0.00049	1	03/23/20 20:01	03/25/20 18:19	7440-39-3	
Beryllium	0.000076J	mg/L	0.0030	0.000074	1	03/23/20 20:01	03/25/20 18:19	7440-41-7	
Boron	0.092J	mg/L	0.10	0.0049	1	03/23/20 20:01	03/25/20 18:19	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/23/20 20:01	03/25/20 18:19	7440-43-9	
Chromium	0.0010J	mg/L	0.010	0.00039	1	03/23/20 20:01	03/25/20 18:19	7440-47-3	
Cobalt	0.00054J	mg/L	0.0050	0.00030	1	03/23/20 20:01	03/25/20 18:19	7440-48-4	
Copper	0.00040J	mg/L	0.0050	0.00019	1	03/23/20 20:01	03/25/20 18:19	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/23/20 20:01	03/25/20 18:19	7439-92-1	
Lithium	0.00094J	mg/L	0.030	0.00078	1	03/23/20 20:01	03/25/20 18:19	7439-93-2	
Nickel	0.00087J	mg/L	0.0050	0.00031	1	03/23/20 20:01	03/25/20 18:19	7440-02-0	
Selenium	0.0017J	mg/L	0.010	0.0013	1	03/23/20 20:01	03/25/20 18:19	7782-49-2	
Silver	ND	mg/L	0.0050	0.00028	1	03/23/20 20:01	03/25/20 18:19	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/23/20 20:01	03/25/20 18:19	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/23/20 20:01	03/25/20 18:19	7440-62-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	306	mg/L	10.0	10.0	1		03/23/20 18:12		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	15.5	mg/L	1.0	0.60	1		03/22/20 01:18	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/22/20 01:18	16984-48-8	
Sulfate	145	mg/L	3.0	1.5	3		03/22/20 09:58	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PLANT YATES GYPSUM STORAGE
Pace Project No.: 2630255

Sample: EB-1-3-18-20 **Lab ID: 2630255006** Collected: 03/18/20 10:30 Received: 03/18/20 17:00 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				

6010D MET ICP Analytical Method: EPA 6010D Preparation Method: EPA 3010A
Pace Analytical Services - Atlanta, GA

Calcium	ND	mg/L	1.0	0.14	1	03/24/20 18:06	03/25/20 19:47	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	03/24/20 18:06	03/25/20 19:47	7440-66-6	

6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A
Pace Analytical Services - Atlanta, GA

Antimony	ND	mg/L	0.0030	0.00027	1	03/23/20 20:01	03/25/20 18:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/23/20 20:01	03/25/20 18:25	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	03/23/20 20:01	03/25/20 18:25	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/23/20 20:01	03/25/20 18:25	7440-41-7	
Boron	ND	mg/L	0.10	0.0049	1	03/23/20 20:01	03/25/20 18:25	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/23/20 20:01	03/25/20 18:25	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/23/20 20:01	03/25/20 18:25	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/23/20 20:01	03/25/20 18:25	7440-48-4	
Copper	ND	mg/L	0.0050	0.00019	1	03/23/20 20:01	03/25/20 18:25	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/23/20 20:01	03/25/20 18:25	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	03/23/20 20:01	03/25/20 18:25	7439-93-2	
Nickel	ND	mg/L	0.0050	0.00031	1	03/23/20 20:01	03/25/20 18:25	7440-02-0	
Selenium	ND	mg/L	0.010	0.0013	1	03/23/20 20:01	03/25/20 18:25	7782-49-2	
Silver	ND	mg/L	0.0050	0.00028	1	03/23/20 20:01	03/25/20 18:25	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/23/20 20:01	03/25/20 18:25	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/23/20 20:01	03/25/20 18:25	7440-62-2	

2540C Total Dissolved Solids Analytical Method: SM 2540C
Pace Analytical Services - Atlanta, GA

Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/23/20 18:13		
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300.0 IC Anions 28 Days Analytical Method: EPA 300.0 Rev 2.1 1993
Pace Analytical Services - Asheville

Chloride	ND	mg/L	1.0	0.60	1		03/22/20 01:32	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/22/20 01:32	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/22/20 01:32	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT YATES GYPSUM STORAGE
Pace Project No.: 2630255

Sample: GWC-5R		Lab ID: 2630255007		Collected: 03/18/20 11:30		Received: 03/18/20 17:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	4.88	Std. Units			1		03/23/20 09:09		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	149	mg/L	1.0	0.14	1	03/24/20 18:06	03/25/20 19:50	7440-70-2	
Zinc	0.023	mg/L	0.020	0.018	1	03/24/20 18:06	03/25/20 19:50	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	03/23/20 20:01	03/25/20 18:30	7440-36-0	
Arsenic	0.00080J	mg/L	0.0050	0.00035	1	03/23/20 20:01	03/25/20 18:30	7440-38-2	
Barium	0.015	mg/L	0.010	0.00049	1	03/23/20 20:01	03/25/20 18:30	7440-39-3	
Beryllium	0.0028J	mg/L	0.0030	0.000074	1	03/23/20 20:01	03/25/20 18:30	7440-41-7	
Boron	0.034J	mg/L	0.10	0.0049	1	03/23/20 20:01	03/25/20 18:30	7440-42-8	
Cadmium	0.0012J	mg/L	0.0025	0.00011	1	03/23/20 20:01	03/25/20 18:30	7440-43-9	
Chromium	0.0023J	mg/L	0.010	0.00039	1	03/23/20 20:01	03/25/20 18:30	7440-47-3	
Cobalt	0.00044J	mg/L	0.0050	0.00030	1	03/23/20 20:01	03/25/20 18:30	7440-48-4	
Copper	0.00097J	mg/L	0.0050	0.00019	1	03/23/20 20:01	03/25/20 18:30	7440-50-8	
Lead	0.000079J	mg/L	0.0050	0.000046	1	03/23/20 20:01	03/25/20 18:30	7439-92-1	
Lithium	0.0017J	mg/L	0.030	0.00078	1	03/23/20 20:01	03/25/20 18:30	7439-93-2	
Nickel	0.0020J	mg/L	0.0050	0.00031	1	03/23/20 20:01	03/25/20 18:30	7440-02-0	
Selenium	0.028	mg/L	0.010	0.0013	1	03/23/20 20:01	03/25/20 18:30	7782-49-2	
Silver	ND	mg/L	0.0050	0.00028	1	03/23/20 20:01	03/25/20 18:30	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/23/20 20:01	03/25/20 18:30	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/23/20 20:01	03/25/20 18:30	7440-62-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	1520	mg/L	10.0	10.0	1		03/23/20 18:14		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	3.8	mg/L	1.0	0.60	1		03/22/20 01:46	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/22/20 01:46	16984-48-8	
Sulfate	960	mg/L	20.0	10.0	20		03/22/20 10:12	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT YATES GYPSUM STORAGE
Pace Project No.: 2630255

Sample: GWC-4R	Lab ID: 2630255008	Collected: 03/18/20 12:40		Received: 03/20/20 14:10		Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	5.58	Std. Units			1		03/23/20 09:09		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	76.6	mg/L	1.0	0.14	1	03/24/20 18:00	03/25/20 16:56	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	03/24/20 18:00	03/25/20 16:56	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	03/24/20 19:40	03/26/20 17:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/24/20 19:40	03/26/20 17:49	7440-38-2	
Barium	0.038	mg/L	0.010	0.00049	1	03/24/20 19:40	03/26/20 17:49	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/24/20 19:40	03/26/20 17:49	7440-41-7	
Boron	5.4	mg/L	0.10	0.0049	1	03/24/20 19:40	03/26/20 17:49	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/24/20 19:40	03/26/20 17:49	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/24/20 19:40	03/26/20 17:49	7440-47-3	
Cobalt	0.0031J	mg/L	0.0050	0.00030	1	03/24/20 19:40	03/26/20 17:49	7440-48-4	
Copper	0.00021J	mg/L	0.0050	0.00019	1	03/24/20 19:40	03/26/20 17:49	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/24/20 19:40	03/26/20 17:49	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	03/24/20 19:40	03/26/20 17:49	7439-93-2	
Nickel	0.0026J	mg/L	0.0050	0.00031	1	03/24/20 19:40	03/26/20 17:49	7440-02-0	
Selenium	0.0046J	mg/L	0.010	0.0013	1	03/24/20 19:40	03/26/20 17:49	7782-49-2	
Silver	ND	mg/L	0.0050	0.00028	1	03/24/20 19:40	03/26/20 17:49	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/24/20 19:40	03/26/20 17:49	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/24/20 19:40	03/26/20 17:49	7440-62-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	703	mg/L	10.0	10.0	1		03/23/20 18:14		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	233	mg/L	5.0	3.0	5		03/27/20 16:41	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/26/20 16:58	16984-48-8	
Sulfate	199	mg/L	5.0	2.5	5		03/27/20 16:41	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT YATES GYPSUM STORAGE
Pace Project No.: 2630255

Sample: GWC-2R		Lab ID: 2630255010		Collected: 03/18/20 14:15		Received: 03/20/20 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	5.38	Std. Units			1		03/23/20 09:09		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	34.5	mg/L	1.0	0.14	1	03/24/20 18:00	03/25/20 17:03	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	03/24/20 18:00	03/25/20 17:03	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	03/24/20 19:40	03/26/20 18:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/24/20 19:40	03/26/20 18:00	7440-38-2	
Barium	0.040	mg/L	0.010	0.00049	1	03/24/20 19:40	03/26/20 18:00	7440-39-3	
Beryllium	0.00012J	mg/L	0.0030	0.000074	1	03/24/20 19:40	03/26/20 18:00	7440-41-7	
Boron	0.026J	mg/L	0.10	0.0049	1	03/24/20 19:40	03/26/20 18:00	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/24/20 19:40	03/26/20 18:00	7440-43-9	
Chromium	0.00040J	mg/L	0.010	0.00039	1	03/24/20 19:40	03/26/20 18:00	7440-47-3	
Cobalt	0.019	mg/L	0.0050	0.00030	1	03/24/20 19:40	03/26/20 18:00	7440-48-4	
Copper	ND	mg/L	0.0050	0.00019	1	03/24/20 19:40	03/26/20 18:00	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/24/20 19:40	03/26/20 18:00	7439-92-1	
Lithium	0.0053J	mg/L	0.030	0.00078	1	03/24/20 19:40	03/26/20 18:00	7439-93-2	
Nickel	0.00063J	mg/L	0.0050	0.00031	1	03/24/20 19:40	03/26/20 18:00	7440-02-0	
Selenium	0.0032J	mg/L	0.010	0.0013	1	03/24/20 19:40	03/26/20 18:00	7782-49-2	
Silver	ND	mg/L	0.0050	0.00028	1	03/24/20 19:40	03/26/20 18:00	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/24/20 19:40	03/26/20 18:00	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/24/20 19:40	03/26/20 18:00	7440-62-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	351	mg/L	10.0	10.0	1		03/23/20 18:14		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	11.7	mg/L	1.0	0.60	1		03/26/20 18:11	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/26/20 18:11	16984-48-8	
Sulfate	200	mg/L	4.0	2.0	4		03/27/20 16:56	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT YATES GYPSUM STORAGE
Pace Project No.: 2630255

Sample: DUP-1	Lab ID: 2630320010	Collected: 03/18/20 00:00	Received: 03/20/20 14:10	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	75.8	mg/L	1.0	0.14	1	03/24/20 19:40	03/26/20 13:00	7440-70-2	
Zinc	ND	mg/L	0.020	0.018	1	03/24/20 19:40	03/26/20 13:00	7440-66-6	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	03/24/20 19:40	03/27/20 16:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/24/20 19:40	03/27/20 16:20	7440-38-2	
Barium	0.041	mg/L	0.010	0.00049	1	03/24/20 19:40	03/27/20 16:20	7440-39-3	
Beryllium	0.000083J	mg/L	0.0030	0.000074	1	03/24/20 19:40	03/27/20 16:20	7440-41-7	
Boron	5.3	mg/L	0.10	0.0049	1	03/24/20 19:40	03/27/20 16:20	7440-42-8	
Cadmium	0.00013J	mg/L	0.0025	0.00011	1	03/24/20 19:40	03/27/20 16:20	7440-43-9	
Chromium	0.00040J	mg/L	0.010	0.00039	1	03/24/20 19:40	03/27/20 16:20	7440-47-3	
Cobalt	0.0031J	mg/L	0.0050	0.00030	1	03/24/20 19:40	03/27/20 16:20	7440-48-4	
Copper	0.00028J	mg/L	0.0050	0.00019	1	03/24/20 19:40	03/27/20 16:20	7440-50-8	
Lead	ND	mg/L	0.0050	0.000046	1	03/24/20 19:40	03/27/20 16:20	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	03/24/20 19:40	03/27/20 16:20	7439-93-2	
Nickel	0.0026J	mg/L	0.0050	0.00031	1	03/24/20 19:40	03/27/20 16:20	7440-02-0	
Selenium	0.0042J	mg/L	0.010	0.0013	1	03/24/20 19:40	03/27/20 16:20	7782-49-2	
Silver	ND	mg/L	0.0050	0.00028	1	03/24/20 19:40	03/27/20 16:20	7440-22-4	
Thallium	ND	mg/L	0.0010	0.000052	1	03/24/20 19:40	03/27/20 16:20	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00071	1	03/24/20 19:40	03/27/20 16:20	7440-62-2	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	610	mg/L	10.0	10.0	1		03/24/20 14:09		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	239	mg/L	5.0	3.0	5		03/27/20 21:20	16887-00-6	M6
Fluoride	ND	mg/L	0.30	0.050	1		03/27/20 12:04	16984-48-8	
Sulfate	199	mg/L	5.0	2.5	5		03/27/20 21:20	14808-79-8	M6

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PLANT YATES GYPSUM STORAGE
Pace Project No.: 2630255

QC Batch: 44880	Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A	Analysis Description: 6010D MET
	Laboratory: Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630255001, 2630255002, 2630255003, 2630255004, 2630255005, 2630255006, 2630255007

METHOD BLANK: 206473 Matrix: Water
Associated Lab Samples: 2630255001, 2630255002, 2630255003, 2630255004, 2630255005, 2630255006, 2630255007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.14	03/25/20 17:48	
Zinc	mg/L	ND	0.020	0.018	03/25/20 17:48	

LABORATORY CONTROL SAMPLE: 206474

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.99J	99	80-120	
Zinc	mg/L	1	0.85	85	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 206475 206476

Parameter	Units	206475		206476		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2630125017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Calcium	mg/L	26.4	1	1	27.0	27.6	62	113	75-125	2	20	M1	
Zinc	mg/L	ND	1	1	0.89	0.92	89	92	75-125	3	20		

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

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QUALITY CONTROL DATA

Project: PLANT YATES GYPSUM STORAGE
Pace Project No.: 2630255

QC Batch: 44881 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Atlanta, GA
Associated Lab Samples: 2630255008, 2630255010

METHOD BLANK: 206477 Matrix: Water
Associated Lab Samples: 2630255008, 2630255010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.14	03/25/20 16:05	
Zinc	mg/L	ND	0.020	0.018	03/25/20 16:05	

LABORATORY CONTROL SAMPLE: 206478

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	101	80-120	
Zinc	mg/L	1	0.94	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 206479 206480

Parameter	Units	2630257002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	31.9	1	1	33.2	33.9	123	195	75-125	2	20	M1
Zinc	mg/L	ND	1	1	0.91	0.88	91	88	75-125	3	20	

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QUALITY CONTROL DATA

Project: PLANT YATES GYPSUM STORAGE

Pace Project No.: 2630255

QC Batch: 44895

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D MET

Laboratory: Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630320010

METHOD BLANK: 206546

Matrix: Water

Associated Lab Samples: 2630320010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.14	03/26/20 12:32	

LABORATORY CONTROL SAMPLE: 206547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 206548 206549

Parameter	Units	206548		206549		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Calcium	mg/L	1.2	1	1	2.3	2.3	105	102	75-125	1	20

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QUALITY CONTROL DATA

Project: PLANT YATES GYPSUM STORAGE
Pace Project No.: 2630255

QC Batch: 44862 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Laboratory: Pace Analytical Services - Atlanta, GA
Associated Lab Samples: 2630255001, 2630255002, 2630255003, 2630255004, 2630255005, 2630255006, 2630255007

METHOD BLANK: 206398 Matrix: Water
Associated Lab Samples: 2630255001, 2630255002, 2630255003, 2630255004, 2630255005, 2630255006, 2630255007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	03/25/20 15:45	
Arsenic	mg/L	ND	0.0050	0.00035	03/25/20 15:45	
Barium	mg/L	ND	0.010	0.00049	03/25/20 15:45	
Beryllium	mg/L	ND	0.0030	0.000074	03/25/20 15:45	
Boron	mg/L	ND	0.10	0.0049	03/25/20 15:45	
Cadmium	mg/L	ND	0.0025	0.00011	03/25/20 15:45	
Chromium	mg/L	ND	0.010	0.00039	03/25/20 15:45	
Cobalt	mg/L	ND	0.0050	0.00030	03/25/20 15:45	
Copper	mg/L	ND	0.0050	0.00019	03/25/20 15:45	
Lead	mg/L	ND	0.0050	0.000046	03/25/20 15:45	
Lithium	mg/L	ND	0.030	0.00078	03/25/20 15:45	
Nickel	mg/L	ND	0.0050	0.00031	03/25/20 15:45	
Selenium	mg/L	ND	0.010	0.0013	03/25/20 15:45	
Silver	mg/L	ND	0.0050	0.00028	03/25/20 15:45	
Thallium	mg/L	ND	0.0010	0.000052	03/25/20 15:45	
Vanadium	mg/L	ND	0.010	0.00071	03/25/20 15:45	

LABORATORY CONTROL SAMPLE: 206399

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.095	95	80-120	
Arsenic	mg/L	0.1	0.094	94	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.097	97	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.098	98	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Copper	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.095	95	80-120	
Lithium	mg/L	0.1	0.099	99	80-120	
Nickel	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.092	92	80-120	
Silver	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	
Vanadium	mg/L	0.1	0.099	99	80-120	

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QUALITY CONTROL DATA

Project: PLANT YATES GYPSUM STORAGE

Pace Project No.: 2630255

Parameter	Units	206400		206401		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		2630125013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Antimony	mg/L	ND	0.1	0.1	0.097	0.098	97	97	75-125	1	20		
Arsenic	mg/L	ND	0.1	0.1	0.096	0.099	96	99	75-125	3	20		
Barium	mg/L	0.0095J	0.1	0.1	0.11	0.11	98	99	75-125	0	20		
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	101	103	75-125	2	20		
Boron	mg/L	0.0070J	1	1	1.1	1.1	106	106	75-125	1	20		
Cadmium	mg/L	ND	0.1	0.1	0.099	0.10	99	100	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.11	102	105	75-125	3	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	101	103	75-125	2	20		
Copper	mg/L	0.0035J	0.1	0.1	0.11	0.11	102	105	75-125	3	20		
Lead	mg/L	ND	0.1	0.1	0.097	0.10	97	100	75-125	2	20		
Lithium	mg/L	0.00095J	0.1	0.1	0.11	0.11	105	107	75-125	2	20		
Nickel	mg/L	0.0010J	0.1	0.1	0.10	0.10	101	104	75-125	3	20		
Selenium	mg/L	ND	0.1	0.1	0.095	0.10	95	100	75-125	6	20		
Silver	mg/L	0.0013J	0.1	0.1	0.098	0.10	97	98	75-125	1	20		
Thallium	mg/L	0.000059J	0.1	0.1	0.098	0.10	98	100	75-125	2	20		
Vanadium	mg/L	ND	0.1	0.1	0.10	0.11	103	105	75-125	2	20		

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QUALITY CONTROL DATA

Project: PLANT YATES GYPSUM STORAGE
Pace Project No.: 2630255

QC Batch: 44893 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Laboratory: Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630255008, 2630255010

METHOD BLANK: 206538 Matrix: Water
Associated Lab Samples: 2630255008, 2630255010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00031J	0.0030	0.00027	03/26/20 16:09	
Arsenic	mg/L	ND	0.0050	0.00035	03/26/20 16:09	
Barium	mg/L	ND	0.010	0.00049	03/26/20 16:09	
Beryllium	mg/L	ND	0.0030	0.000074	03/26/20 16:09	
Boron	mg/L	ND	0.10	0.0049	03/26/20 16:09	
Cadmium	mg/L	ND	0.0025	0.00011	03/26/20 16:09	
Chromium	mg/L	ND	0.010	0.00039	03/26/20 16:09	
Cobalt	mg/L	ND	0.0050	0.00030	03/26/20 16:09	
Copper	mg/L	ND	0.0050	0.00019	03/26/20 16:09	
Lead	mg/L	ND	0.0050	0.000046	03/26/20 16:09	
Lithium	mg/L	ND	0.030	0.00078	03/26/20 16:09	
Nickel	mg/L	ND	0.0050	0.00031	03/26/20 16:09	
Selenium	mg/L	ND	0.010	0.0013	03/26/20 16:09	
Silver	mg/L	ND	0.0050	0.00028	03/26/20 16:09	
Thallium	mg/L	ND	0.0010	0.000052	03/26/20 16:09	
Vanadium	mg/L	ND	0.010	0.00071	03/26/20 16:09	

LABORATORY CONTROL SAMPLE: 206539

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	114	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.10	104	80-120	
Boron	mg/L	1	1.1	110	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.11	107	80-120	
Cobalt	mg/L	0.1	0.10	104	80-120	
Copper	mg/L	0.1	0.10	104	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Nickel	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Silver	mg/L	0.1	0.10	103	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	
Vanadium	mg/L	0.1	0.11	106	80-120	

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QUALITY CONTROL DATA

Project: PLANT YATES GYPSUM STORAGE

Pace Project No.: 2630255

Parameter	Units	2630257002		206540		206541		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Antimony	mg/L	0.00042J	0.1	0.1	0.11	0.11	111	108	75-125	3	20			
Arsenic	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20			
Barium	mg/L	0.099	0.1	0.1	0.20	0.19	102	95	75-125	3	20			
Beryllium	mg/L	ND	0.1	0.1	0.093	0.096	93	96	75-125	3	20			
Boron	mg/L	0.61	1	1	1.6	1.6	97	98	75-125	0	20			
Cadmium	mg/L	ND	0.1	0.1	0.099	0.096	99	96	75-125	3	20			
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	104	104	75-125	0	20			
Cobalt	mg/L	0.0040J	0.1	0.1	0.10	0.10	101	101	75-125	0	20			
Copper	mg/L	0.00039J	0.1	0.1	0.10	0.10	101	100	75-125	1	20			
Lead	mg/L	0.00010J	0.1	0.1	0.095	0.095	95	95	75-125	0	20			
Lithium	mg/L	0.013J	0.1	0.1	0.11	0.11	94	97	75-125	3	20			
Nickel	mg/L	0.0016J	0.1	0.1	0.10	0.10	99	100	75-125	1	20			
Selenium	mg/L	ND	0.1	0.1	0.098	0.098	97	97	75-125	0	20			
Silver	mg/L	ND	0.1	0.1	0.097	0.095	97	95	75-125	3	20			
Thallium	mg/L	0.000080J	0.1	0.1	0.096	0.095	95	95	75-125	0	20			
Vanadium	mg/L	0.0018J	0.1	0.1	0.11	0.11	107	105	75-125	2	20			

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QUALITY CONTROL DATA

Project: PLANT YATES GYPSUM STORAGE
Pace Project No.: 2630255

QC Batch: 44894 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Laboratory: Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630320010

METHOD BLANK: 206542 Matrix: Water
Associated Lab Samples: 2630320010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00034J	0.0030	0.00027	03/27/20 16:03	
Arsenic	mg/L	ND	0.0050	0.00035	03/27/20 16:03	
Barium	mg/L	ND	0.010	0.00049	03/27/20 16:03	
Beryllium	mg/L	ND	0.0030	0.000074	03/27/20 16:03	
Boron	mg/L	ND	0.10	0.0049	03/27/20 16:03	
Cadmium	mg/L	ND	0.0025	0.00011	03/27/20 16:03	
Chromium	mg/L	ND	0.010	0.00039	03/27/20 16:03	
Cobalt	mg/L	ND	0.0050	0.00030	03/27/20 16:03	
Lead	mg/L	ND	0.0050	0.000046	03/27/20 16:03	
Lithium	mg/L	ND	0.030	0.00078	03/27/20 16:03	
Selenium	mg/L	ND	0.010	0.0013	03/27/20 16:03	
Thallium	mg/L	ND	0.0010	0.000052	03/27/20 16:03	

LABORATORY CONTROL SAMPLE: 206543

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	105	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.10	100	80-120	
Boron	mg/L	1	1.1	106	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 206544 206545

Parameter	Units	2630320010		206545		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Antimony	mg/L	ND	0.1	0.11	0.11	109	112	75-125	3	20	
Arsenic	mg/L	ND	0.1	0.10	0.11	102	105	75-125	3	20	
Barium	mg/L	0.041	0.1	0.14	0.14	103	104	75-125	1	20	
Beryllium	mg/L	0.000083J	0.1	0.10	0.10	99	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: PLANT YATES GYPSUM STORAGE

Pace Project No.: 2630255

Parameter	Units	206544		206545		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		2630320010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Boron	mg/L	5.3	1	1	6.5	6.3	117	105	75-125	2	20		
Cadmium	mg/L	0.00013J	0.1	0.1	0.10	0.10	100	103	75-125	3	20		
Chromium	mg/L	0.00040J	0.1	0.1	0.11	0.11	106	109	75-125	3	20		
Cobalt	mg/L	0.0031J	0.1	0.1	0.11	0.11	103	103	75-125	0	20		
Lead	mg/L	ND	0.1	0.1	0.095	0.099	95	99	75-125	3	20		
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	101	103	75-125	2	20		
Selenium	mg/L	0.0042J	0.1	0.1	0.11	0.11	103	104	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.097	0.098	97	98	75-125	1	20		

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QUALITY CONTROL DATA

Project: PLANT YATES GYPSUM STORAGE

Pace Project No.: 2630255

QC Batch: 45667

Analysis Method: EPA 6020B

QC Batch Method: EPA 3005A

Analysis Description: 6020B MET

Laboratory: Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630255004

METHOD BLANK: 211340

Matrix: Water

Associated Lab Samples: 2630255004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Selenium	mg/L	ND	0.010	0.0013	04/20/20 18:39	

LABORATORY CONTROL SAMPLE: 211341

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Selenium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 211343 211344

Parameter	Units	2630255004		211344		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Selenium	mg/L	0.0096J	0.1	0.1	0.11	0.11	99	96	75-125	3	20

SAMPLE DUPLICATE: 211342

Parameter	Units	2630255004 Result	Dup Result	RPD	Max RPD	Qualifiers
Selenium	mg/L	0.0096J	0.0082J	16	20	

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QUALITY CONTROL DATA

Project: PLANT YATES GYPSUM STORAGE

Pace Project No.: 2630255

QC Batch: 44831

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Laboratory: Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630255001, 2630255002, 2630255003, 2630255004, 2630255005, 2630255006, 2630255007, 2630255008, 2630255010

LABORATORY CONTROL SAMPLE: 206292

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	363	91	84-108	

SAMPLE DUPLICATE: 206293

Parameter	Units	2630255001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	185	199	7	10	

SAMPLE DUPLICATE: 206294

Parameter	Units	2630257006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	141	146	3	10	

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QUALITY CONTROL DATA

Project: PLANT YATES GYPSUM STORAGE

Pace Project No.: 2630255

QC Batch: 44875	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630320010

LABORATORY CONTROL SAMPLE: 206450

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	399	100	84-108	

SAMPLE DUPLICATE: 206451

Parameter	Units	2630320006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	57.0	63.0	10	10	

SAMPLE DUPLICATE: 206452

Parameter	Units	2630320004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	148	122	19	10	D6

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QUALITY CONTROL DATA

Project: PLANT YATES GYPSUM STORAGE
Pace Project No.: 2630255

QC Batch: 531787 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 2630255001, 2630255002, 2630255003, 2630255004, 2630255005, 2630255006, 2630255007

METHOD BLANK: 2839333 Matrix: Water
Associated Lab Samples: 2630255001, 2630255002, 2630255003, 2630255004, 2630255005, 2630255006, 2630255007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/21/20 19:14	
Fluoride	mg/L	ND	0.10	0.050	03/21/20 19:14	
Sulfate	mg/L	ND	1.0	0.50	03/21/20 19:14	

LABORATORY CONTROL SAMPLE: 2839334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.5	101	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	49.7	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2839335 2839336

Parameter	Units	2630143002 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	52.4	53.0	105	106	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	100	100	90-110	0	10	
Sulfate	mg/L	ND	50	50	51.4	52.0	103	104	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2839337 2839338

Parameter	Units	2630255001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.8	50	50	57.5	58.2	105	107	90-110	1	10	
Fluoride	mg/L	0.053J	2.5	2.5	2.6	2.6	101	102	90-110	2	10	
Sulfate	mg/L	98.6	50	50	138	136	78	74	90-110	2	10 M1	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PLANT YATES GYPSUM STORAGE
Pace Project No.: 2630255

QC Batch: 532325 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 2630255008, 2630255010

METHOD BLANK: 2841784 Matrix: Water
Associated Lab Samples: 2630255008, 2630255010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/26/20 15:03	
Fluoride	mg/L	ND	0.10	0.050	03/26/20 15:03	
Sulfate	mg/L	ND	1.0	0.50	03/26/20 15:03	

LABORATORY CONTROL SAMPLE: 2841785

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.5	97	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	51.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2841786 2841787

Parameter	Units	2630320019 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chloride	mg/L	ND	50	50	50.0	50.9	100	102	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	3.2	2.8	129	112	90-110	14	10	M1, R1
Sulfate	mg/L	ND	50	50	53.4	53.7	107	107	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2841788 2841789

Parameter	Units	92470768004 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chloride	mg/L	5.0	50	50	54.7	54.8	99	100	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	3.2	3.0	127	119	90-110	6	10	M1
Sulfate	mg/L	13.7	50	50	64.7	64.5	102	102	90-110	0	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PLANT YATES GYPSUM STORAGE
Pace Project No.: 2630255

QC Batch: 532327 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 2630320010

METHOD BLANK: 2841796 Matrix: Water
Associated Lab Samples: 2630320010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/27/20 07:43	
Fluoride	mg/L	ND	0.10	0.050	03/27/20 07:43	
Sulfate	mg/L	ND	1.0	0.50	03/27/20 07:43	

LABORATORY CONTROL SAMPLE: 2841797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.9	102	90-110	
Fluoride	mg/L	2.5	2.7	109	90-110	
Sulfate	mg/L	50	54.0	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2841798 2841799

Parameter	Units	2630325019 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	50.9	103	102	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	110	109	90-110	0	10	
Sulfate	mg/L	ND	50	50	54.7	54.1	109	108	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2841800 2841801

Parameter	Units	2630320010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	239	50	50	279	266	80	54	90-110	5	10 M6	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	101	101	90-110	1	10	
Sulfate	mg/L	199	50	50	245	234	92	70	90-110	5	10 M6	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: PLANT YATES GYPSUM STORAGE
Pace Project No.: 2630255

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.

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.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.
M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT YATES GYPSUM STORAGE
Pace Project No.: 2630255

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2630255001	GWA-2				
2630255002	GWC-6R				
2630255004	GWC-3R				
2630255005	GWC-1R				
2630255007	GWC-5R				
2630255008	GWC-4R				
2630255010	GWC-2R				
2630255001	GWA-2	EPA 3010A	44880	EPA 6010D	44899
2630255002	GWC-6R	EPA 3010A	44880	EPA 6010D	44899
2630255003	FB-1-3-17-20	EPA 3010A	44880	EPA 6010D	44899
2630255004	GWC-3R	EPA 3010A	44880	EPA 6010D	44899
2630255005	GWC-1R	EPA 3010A	44880	EPA 6010D	44899
2630255006	EB-1-3-18-20	EPA 3010A	44880	EPA 6010D	44899
2630255007	GWC-5R	EPA 3010A	44880	EPA 6010D	44899
2630255008	GWC-4R	EPA 3010A	44881	EPA 6010D	44898
2630255010	GWC-2R	EPA 3010A	44881	EPA 6010D	44898
2630320010	DUP-1	EPA 3010A	44895	EPA 6010D	44902
2630255001	GWA-2	EPA 3005A	44862	EPA 6020B	44868
2630255002	GWC-6R	EPA 3005A	44862	EPA 6020B	44868
2630255003	FB-1-3-17-20	EPA 3005A	44862	EPA 6020B	44868
2630255004	GWC-3R	EPA 3005A	44862	EPA 6020B	44868
2630255004	GWC-3R	EPA 3005A	45667	EPA 6020B	45669
2630255005	GWC-1R	EPA 3005A	44862	EPA 6020B	44868
2630255006	EB-1-3-18-20	EPA 3005A	44862	EPA 6020B	44868
2630255007	GWC-5R	EPA 3005A	44862	EPA 6020B	44868
2630255008	GWC-4R	EPA 3005A	44893	EPA 6020B	44900
2630255010	GWC-2R	EPA 3005A	44893	EPA 6020B	44900
2630320010	DUP-1	EPA 3005A	44894	EPA 6020B	44901
2630255001	GWA-2	SM 2540C	44831		
2630255002	GWC-6R	SM 2540C	44831		
2630255003	FB-1-3-17-20	SM 2540C	44831		
2630255004	GWC-3R	SM 2540C	44831		
2630255005	GWC-1R	SM 2540C	44831		
2630255006	EB-1-3-18-20	SM 2540C	44831		
2630255007	GWC-5R	SM 2540C	44831		
2630255008	GWC-4R	SM 2540C	44831		
2630255010	GWC-2R	SM 2540C	44831		
2630320010	DUP-1	SM 2540C	44875		
2630255001	GWA-2	EPA 300.0 Rev 2.1 1993	531787		
2630255002	GWC-6R	EPA 300.0 Rev 2.1 1993	531787		
2630255003	FB-1-3-17-20	EPA 300.0 Rev 2.1 1993	531787		
2630255004	GWC-3R	EPA 300.0 Rev 2.1 1993	531787		
2630255005	GWC-1R	EPA 300.0 Rev 2.1 1993	531787		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT YATES GYPSUM STORAGE
Pace Project No.: 2630255

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2630255006	EB-1-3-18-20	EPA 300.0 Rev 2.1 1993	531787		
2630255007	GWC-5R	EPA 300.0 Rev 2.1 1993	531787		
2630255008	GWC-4R	EPA 300.0 Rev 2.1 1993	532325		
2630255010	GWC-2R	EPA 300.0 Rev 2.1 1993	532325		
2630320010	DUP-1	EPA 300.0 Rev 2.1 1993	532327		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 2

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: ACC Contacts		Company Name:	
Email To: SCS Contacts		Purchase Order No.:		Address:	
Phone:	Fax:	Project Name: Plant Yates Gypsum Storage		Pace Quote Reference:	
Requested Due Date/TAT: 10 Day		Project Number:		Pace Project Manager: Kevin Herring	
				Pace Profile #: 2916-14	
				REGULATORY AGENCY	
				<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input checked="" type="checkbox"/> OTHER CGR _____	
				Site Location: GA	
				STATE: GA	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.							
					COMPOSITE		COMPOSITE				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other						TDS	Chloride/Fluoride/Sulfate 300.0	App. III + Detect Metals 6010/6020*	RAD 226/228	state metals		
					DATE	TIME	DATE	TIME																						
1	GWA-2		WT	G	3-17-20	1150			5	2																				pH= 6.14
2	GW C-6R		WT	G	3-17-20	1300			5	2																				pH= 5.97
3	FB-1-3-17-20		WT	G	3-17-20	1310			5	2																				pH=
4	GW C-3 R		WT	G	3-17-20	1425			5	2																				pH= 5.03
5	GW C-1R		WT	G	3-17-20	1535			5	2																				pH= 5.70
6	FB-1-3-18-20		WT	G	3-18-20	1030			5	2																				pH=
7	GW C-5R		WT	G	3-18-20	1130			5	2																				pH= 4.88
8									5	2																				pH=
9									5	2																				pH=
10									5	2																				pH=
11									5	2																				pH=
12									5	2																				pH=

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Note when the last sample for the project has been taken.	A. Dell / ACC	3-18-20	1700	K. Williams / Pace	3/18/20	1700	
*Metals=B,Ca,Sb,As,Ba,Be,Cd,Cr,Co,Pb,Li,Se,Tl							

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	Hunter Auld				
SIGNATURE of SAMPLER:	A. Dell				
DATE Signed (MM/DD/YY):		03/18/20			

MO#: 2630255
 PM: KH
 Due Date: 04/01/20
 CLIENT: 28-GA Power

Sample Condition Upon Receipt

Face Analytical

Client Name: Power

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Optional
 Proj. Due Date:
 Proj. Name:

Tracking #: _____
 Custody Seal on Cooler/Box Present: yes no
 Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other Plastic Bag

Type of Ice: Wet Blue None

Thermometer Used: TH8233
 Cooler Temperature: 0.1
 Temp should be above freezing to 6°C

Biological Tissue is Frozen: Yes No
 Comments:

Chain of Custody Present: Yes No N/A

Chain of Custody Filled Out: Yes No N/A

Chain of Custody Relinquished: Yes No N/A

Sampler Name & Signature on COC: Yes No N/A

Samples Arrived within Hold Time: Yes No N/A

Short Hold Time Analysis (<72hr): Yes No N/A

Rush Turn Around Time Requested: Yes No N/A

Sufficient Volume: Yes No N/A

Correct Containers Used: Yes No N/A

-Face Containers Used: Yes No N/A

Containers Intact: Yes No N/A

Filtered volume received for Dissolved tests: Yes No N/A

Sample Labels match COC: Yes No N/A

-Includes date/time/ID/Analysis Matrix: Yes No N/A

All containers needing preservation are found to be in compliance with EPA recommendation: Yes No N/A

exceptions: VOA, coliform, TOC, O&G, WI-DRO (water) Yes No N/A

1.	Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2.	Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3.	Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4.	Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5.	Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6.	Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
7.	Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
8.	Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
9.	Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
10.	-Face Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
11.	Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
12.	Filtered volume received for Dissolved tests:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
13.	Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
14.	-Includes date/time/ID/Analysis Matrix:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
15.	All containers needing preservation are found to be in compliance with EPA recommendation:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
16.	exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
17.	Samples checked for dechlorination:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
18.	Headspace in VOA Vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
19.	Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
20.	Trip Blank Custody Seals Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
21.	Face Trip Blank Lot # (if purchased):	

Client Notification/ Resolution: _____
 Person Contacted: _____
 Date/Time: _____
 Field Data Required? Y / N

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____

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

April 14, 2020

Mr. Joju Abraham
Georgia Power
2480 Maner Road
Atlanta, GA 30339

RE: Project: 2630255 PLANT YATES GYPSUM
Pace Project No.: 30355815

Dear Mr. Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between March 20, 2020 and March 24, 2020. 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,



Jacquelyn Collins
jacquelyn.collins@pacelabs.com
(724)850-5612
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2630255 PLANT YATES GYPSUM
Pace Project No.: 30355815

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2630255 PLANT YATES GYPSUM

Pace Project No.: 30355815

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2630255001	GWA-2	Water	03/17/20 15:50	03/20/20 09:55
2630255002	GWC-6R	Water	03/17/20 13:00	03/20/20 09:55
2630255003	FB-1-3-17-20	Water	03/17/20 13:10	03/20/20 09:55
2630255004	GWC-3R	Water	03/17/20 14:25	03/20/20 09:55
2630255005	GWC-1R	Water	03/17/20 15:35	03/20/20 09:55
2630255006	EB-1-3-18-20	Water	03/18/20 10:30	03/20/20 09:55
2630255007	GWC-5R	Water	03/18/20 11:30	03/20/20 09:55
2630255008	GWC-4R	Water	03/18/20 12:40	03/24/20 09:10
2630255009	DUP-1	Water	03/18/20 00:00	03/24/20 09:10
2630255010	GWC-2R	Water	03/18/20 14:15	03/24/20 09:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2630255 PLANT YATES GYPSUM
Pace Project No.: 30355815

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2630255001	GWA-2	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
2630255002	GWC-6R	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
2630255003	FB-1-3-17-20	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
2630255004	GWC-3R	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
2630255005	GWC-1R	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
2630255006	EB-1-3-18-20	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
2630255007	GWC-5R	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	RMK	1	PASI-PA
2630255008	GWC-4R	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2630255009	DUP-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2630255010	GWC-2R	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2630255 PLANT YATES GYPSUM

Pace Project No.: 30355815

Sample: GWA-2		Lab ID: 2630255001	Collected: 03/17/20 15:50	Received: 03/20/20 09:55	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.710 ± 0.220 (0.223) C:92% T:NA	pCi/L	03/25/20 19:28	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.293 ± 0.419 (0.902) C:69% T:89%	pCi/L	04/08/20 16:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.00 ± 0.639 (1.13)	pCi/L	04/10/20 12:52	7440-14-4	

Sample: GWC-6R		Lab ID: 2630255002	Collected: 03/17/20 13:00	Received: 03/20/20 09:55	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.427 ± 0.165 (0.198) C:98% T:NA	pCi/L	03/25/20 19:28	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	2.07 ± 0.659 (0.881) C:67% T:87%	pCi/L	04/08/20 16:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.50 ± 0.824 (1.08)	pCi/L	04/10/20 12:52	7440-14-4	

Sample: FB-1-3-17-20		Lab ID: 2630255003	Collected: 03/17/20 13:10	Received: 03/20/20 09:55	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.282 ± 0.158 (0.255) C:98% T:NA	pCi/L	03/25/20 20:51	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.166 ± 0.384 (0.851) C:67% T:96%	pCi/L	04/08/20 16:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.448 ± 0.542 (1.11)	pCi/L	04/10/20 12:52	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2630255 PLANT YATES GYPSUM
Pace Project No.: 30355815

Sample: GWC-3R		Lab ID: 2630255004	Collected: 03/17/20 14:25	Received: 03/20/20 09:55	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 9315	0.424 ± 0.176 (0.239)		pCi/L	03/25/20 20:41	13982-63-3	
		C:94% T:NA					
Pace Analytical Services - Greensburg							
Radium-228	EPA 9320	2.42 ± 0.803 (1.12)		pCi/L	04/08/20 16:04	15262-20-1	
		C:63% T:80%					
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	2.84 ± 0.979 (1.36)		pCi/L	04/10/20 12:52	7440-14-4	

Sample: GWC-1R		Lab ID: 2630255005	Collected: 03/17/20 15:35	Received: 03/20/20 09:55	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 9315	0.452 ± 0.178 (0.229)		pCi/L	03/25/20 20:42	13982-63-3	
		C:93% T:NA					
Pace Analytical Services - Greensburg							
Radium-228	EPA 9320	0.950 ± 0.470 (0.821)		pCi/L	04/08/20 16:04	15262-20-1	
		C:71% T:89%					
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	1.40 ± 0.648 (1.05)		pCi/L	04/10/20 12:52	7440-14-4	

Sample: EB-1-3-18-20		Lab ID: 2630255006	Collected: 03/18/20 10:30	Received: 03/20/20 09:55	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 9315	0.488 ± 0.213 (0.320)		pCi/L	03/25/20 20:43	13982-63-3	
		C:94% T:NA					
Pace Analytical Services - Greensburg							
Radium-228	EPA 9320	0.118 ± 0.349 (0.785)		pCi/L	04/08/20 16:04	15262-20-1	
		C:68% T:90%					
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	0.606 ± 0.562 (1.11)		pCi/L	04/10/20 12:52	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2630255 PLANT YATES GYPSUM
Pace Project No.: 30355815

Sample: GWC-5R		Lab ID: 2630255007	Collected: 03/18/20 11:30	Received: 03/20/20 09:55	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.412 ± 0.176 (0.234) C:95% T:NA	pCi/L	03/25/20 20:43	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.376 ± 0.365 (0.747) C:71% T:89%	pCi/L	04/08/20 16:04	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.788 ± 0.541 (0.981)	pCi/L	04/10/20 12:52	7440-14-4	

Sample: GWC-4R		Lab ID: 2630255008	Collected: 03/18/20 12:40	Received: 03/24/20 09:10	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.479 ± 0.284 (0.402) C:91% T:NA	pCi/L	04/06/20 08:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.387 ± 0.408 (0.847) C:69% T:85%	pCi/L	04/10/20 14:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.866 ± 0.692 (1.25)	pCi/L	04/14/20 08:23	7440-14-4	

Sample: DUP-1		Lab ID: 2630255009	Collected: 03/18/20 00:00	Received: 03/24/20 09:10	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.420 ± 0.270 (0.410) C:96% T:NA	pCi/L	04/06/20 08:11	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.176 ± 0.355 (0.784) C:67% T:92%	pCi/L	04/10/20 14:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.596 ± 0.625 (1.19)	pCi/L	04/14/20 08:23	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2630255 PLANT YATES GYPSUM

Pace Project No.: 30355815

Sample: GWC-2R **Lab ID: 2630255010** Collected: 03/18/20 14:15 Received: 03/24/20 09:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	0.617 ± 0.337 (0.461) C:85% T:NA	pCi/L	04/06/20 08:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.681 ± 0.438 (0.819) C:65% T:86%	pCi/L	04/10/20 14:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.30 ± 0.775 (1.28)	pCi/L	04/14/20 08:23	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2630255 PLANT YATES GYPSUM

Pace Project No.: 30355815

QC Batch: 389350

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 2630255001, 2630255002, 2630255003, 2630255004, 2630255005, 2630255006, 2630255007

METHOD BLANK: 1886055

Matrix: Water

Associated Lab Samples: 2630255001, 2630255002, 2630255003, 2630255004, 2630255005, 2630255006, 2630255007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.497 ± 0.178 (0.190) C:94% T:NA	pCi/L	03/25/20 19:28	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2630255 PLANT YATES GYPSUM

Pace Project No.: 30355815

QC Batch: 390286

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 2630255008, 2630255009, 2630255010

METHOD BLANK: 1890325

Matrix: Water

Associated Lab Samples: 2630255008, 2630255009, 2630255010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.224 ± 0.189 (0.306) C:98% T:NA	pCi/L	04/06/20 08:11	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2630255 PLANT YATES GYPSUM

Pace Project No.: 30355815

QC Batch: 389352

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 2630255001, 2630255002, 2630255003, 2630255004, 2630255005, 2630255006, 2630255007

METHOD BLANK: 1886060

Matrix: Water

Associated Lab Samples: 2630255001, 2630255002, 2630255003, 2630255004, 2630255005, 2630255006, 2630255007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.677 ± 0.348 (0.601) C:74% T:90%	pCi/L	04/08/20 12:59	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2630255 PLANT YATES GYPSUM

Pace Project No.: 30355815

QC Batch: 390287

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 2630255008, 2630255009, 2630255010

METHOD BLANK: 1890327

Matrix: Water

Associated Lab Samples: 2630255008, 2630255009, 2630255010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.272 ± 0.343 (0.726) C:70% T:87%	pCi/L	04/10/20 14:06	

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: 2630255 PLANT YATES GYPSUM
Pace Project No.: 30355815

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.

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

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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Chain of Custody

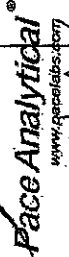
Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: GA
 Cert. Needed: Yes No
 Owner Received Date: 3/18/2020 Results Requested By: 4/1/2020

Workorder: 2630255 Workorder Name: PLANT YATES GYPSUM STORAGE

Pace Analytical Pittsburgh
 1638 Roseytown Road
 Suites 2,3, & 4
 Greensburg, PA 15601
 Phone (724)850-8600

Kevin Herring
 Pace Analytical Charlotte
 9800 Kincoy Ave.
 Suite 100
 Huntersville, NC 28078
 Phone (704)875-9092



www.paceanalytical.com
 21
 4/1/2020

WO#: 30355815

PM: JAC Due Date: 04/10/20
 CLIENT: PACE_26_RTGA

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Preserved Containers	NOH	LAB USE ONLY
1	GWC-2	PS	3/17/2020 11:50	2630255001	Water			
2	GWC-6R	PS	3/17/2020 13:00	2630255002	Water			
3	FB-1-3-17-20	PS	3/17/2020 13:49	2630255003	Water			
4	GWC-3R	PS	3/17/2020 14:25	2630255004	Water			
5	GWC-1R	PS	3/17/2020 15:33	2630255005	Water			
6	EB-1-3-18-20	PS	3/18/2020 10:30	2630255006	Water			
7	GWC-4R	PS	3/18/2020 11:30	2630255007	Water			
8	GWC-4R	PS	3/18/2020 12:40	2630255008	Water			
9	DUP-1	PS	3/18/2020 00:00	2630255009	Water			
10	GWC-2R	PS	3/18/2020 14:15	2630255010	Water			

Transfers	Released By	Date/Time	Received By	Date/Time	Received on Ice	Y or N	Samples Intact	Y or N
1				3-24-20 9:10				
2								
3								

Cooler Temperature on Receipt: N/A °C Custody Seal: Y or N Received on Ice: Y or N Samples Intact: Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Pace NC GA

Project # 30355815

ET 3-20-2020

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 1657 9507 0484

Label	<u>BLM</u>
LIMS Login	<u>BLM</u>

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot#	Date and initials of person examining contents:
				<u>10D2101</u>	<u>ET 3-20-2020</u>
Chain of Custody Present:	/			1.	
Chain of Custody Filled Out:	/			2.	
Chain of Custody Relinquished:	/			3.	
Sampler Name & Signature on COC:	/			4.	
Sample Labels match COC:	/			5.	
-Includes date/time/ID Matrix: <u>WT</u>					
Samples Arrived within Hold Time:	/			6.	
Short Hold Time Analysis (<72hr remaining):	/			7.	
Rush Turn Around Time Requested:	/			8.	
Sufficient Volume:	/			9.	
Correct Containers Used:	/			10.	
-Pace Containers Used:	/				
Containers Intact:	/			11.	
Orthophosphate field filtered			/	12.	
Hex Cr Aqueous sample field filtered			/	13.	
Organic Samples checked for dechlorination:			/	14.	
Filtered volume received for Dissolved tests			/	15.	
All containers have been checked for preservation.	/			16.	
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix					<u>PHLZ</u>
All containers meet method preservation requirements.	/			Initial when completed	<u>ET</u> Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):			/	17.	
Trip Blank Present:			/	18.	
Trip Blank Custody Seals Present			/		
Rad Samples Screened < 0.5 mrem/hr	/			Initial when completed: <u>ET</u>	Date: <u>3-20-2020</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

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

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

WO# : 30355815

Pittsburgh Lab Sample Condition Upon Receipt

PM: JAC Due Date: 04/10/20
CLIENT: PACE_26_ATGA



Client Name: Pace NC

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 1657 9507 Q841

Label	<u>pl</u>
LIMS Login	<u>pl</u>

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

Comments:	pH paper Lot#			Date and Initials of person examining contents: <u>pl 3-24-20</u>
	Yes	No	N/A	
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		1. <u>pl 3-25-20</u>
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		4.
Sample Labels match COC:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		5.
-Includes date/time/ID Matrix: <u>WT</u>				
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		6.
Short Hold Time Analysis (<72hr remaining):	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		7.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		8.
Sufficient Volume:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		9.
Correct Containers Used:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		10.
-Pace Containers Used:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Containers Intact:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		11.
Orthophosphate field filtered	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		12.
Hex Cr Aqueous sample field filtered	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		13.
Organic Samples checked for dechlorination:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		14.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		15.
All containers have been checked for preservation.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		16. <u>pl 2</u>
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix				
All containers meet method preservation requirements.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Initial when completed <u>pl</u> Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		17.
Trip Blank Present:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		18.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Rad Samples Screened < 0.5 mrem/hr	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		Initial when completed: <u>pl</u> Date: <u>3-24-20</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

Received 4 bottles sample PD: 2630255-009 collected 3/18/20 12:40

2 bottles sample PD: 2630255-009 collected 3/18/20 00:00

2630255-010 collected 3/18/20 14:15

received 3-24-20 9:10

A check in this box indicates that additional information has been stored in ereports.

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

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 3/25/2020
Worklist: 53053
Matrix: DW

Method Blank Assessment	
MB Sample ID	1886055
MB concentration:	0.497
M/B Counting Uncertainty:	0.162
MB MDC:	0.190
MB Numerical Performance Indicator:	6.00
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	
LCSD (Y or N)?	N
LCSS3053	LCSD53063
Count Date:	3/26/2020
Spike I.D.:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.049
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.502
Target Conc. (pCi/L, g, F):	4.788
Uncertainty (Calculated):	0.057
Result (pCi/L, g, F):	5.170
LCSD Counting Uncertainty (pCi/L, g, F):	0.808
Numerical Performance Indicator:	0.92
Percent Recovery:	107.98%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample I.D.:	2630257001
Duplicate Sample I.D.:	2630257001DUP
Sample Result (pCi/L, g, F):	0.899
Sample Result Counting Uncertainty (pCi/L, g, F):	0.213
Sample Duplicate Result (pCi/L, g, F):	0.966
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.355
Are sample and/or duplicate results below RL?	See below ##
Duplicate Numerical Performance Indicator:	-0.318
Duplicate RPD:	7.20%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

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

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

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

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

KLB
3-26-2020
LAM3/26/20

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 3/25/2020
Worklist: 53053
Matrix: DW

Method Blank Assessment	
MB Sample ID	1886055
MB concentration:	0.497
MIB Counting Uncertainty:	0.162
MB MDC:	0.190
MB Numerical Performance Indicator:	6.00
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	
LCSID (Y or N)?	Y
LCS53053	LCS053053
Count Date:	3/26/2020
Spike I.D.:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.049
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.520
Target Conc. (pCi/L, g, F):	4.788
Uncertainty (Calculated):	0.057
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	5.170
Numerical Performance Indicator:	0.808
Percent Recovery:	107.98%
Status vs Numerical Indicator:	N/A
Upper % Recovery Limits:	Pass
Lower % Recovery Limits:	125%
	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS53053
Duplicate Sample I.D.:	LCS053053
Sample Result (pCi/L, g, F):	5.170
Sample Duplicate Result (pCi/L, g, F):	0.808
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	4.169
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	1.830
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	18.02%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

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

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

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

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

AMS/26/20

VLS
3-26-20

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 4/5/2020
Worklist: 53170
Matrix: DW

Method Blank Assessment	
MB Sample ID	1890325
MB Concentration:	0.224
M/B Counting Uncertainty:	0.186
MB MDC:	0.306
MB Numerical Performance Indicator:	2.35
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSID (Y or N)?	Y
LCS53170	LCS53170
Count Date:	4/5/2020
Spike I.D.:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.049
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.513
Target Conc. (pCi/L, g, F):	4.688
Uncertainty (Calculated):	0.056
Result (pCi/L, g, F):	5.858
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.840
Numerical Performance Indicator:	2.72
Percent Recovery:	124.95%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample I.D.:	LCS53170
Duplicate Sample I.D.:	LCS53170
Sample Result (pCi/L, g, F):	5.858
Sample Duplicate Result (pCi/L, g, F):	0.840
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	4.262
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.712
Are sample and/or duplicate results below RL?	MB OK
Duplicate Numerical Performance Indicator:	2.839
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	31.31%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Fail***
% RPD Limit:	25%

Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date:		
Sample I.D.:		
Sample MS 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:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Sample Matrix Spike Result:	
Matrix Spike Result 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

MANU16120

KUB
4-6-2020

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow

Test: Ra-226
Analyst: LAL
Date: 4/5/2020
Worklist: 53170
Matrix: DW

Method Blank Assessment	
MB Sample ID	1890325
MB concentration:	0.224
M/B Counting Uncertainty:	0.186
MB MDC:	0.306
MB Numerical Performance Indicator:	2.35
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCS/D (Y or N)?	N
LCS53170	LCS53170
Count Date:	4/6/2020
Spike I.D.:	19-083
Decay Corrected Spike Concentration (pCi/mL):	24.049
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.513
Target Conc. (pCi/L, g, F):	4.688
Uncertainty (Calculated):	0.056
Result (pCi/L, g, F):	5.858
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.840
Numerical Performance Indicator:	2.72
Percent Recovery:	124.95%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample I.D.:	2630255009
Duplicate Sample I.D.:	2630255009DUP
Sample Result (pCi/L, g, F):	0.420
Sample Duplicate Result (pCi/L, g, F):	0.263
Sample Duplicate Result (pCi/L, g, F):	0.234
Sample Duplicate Result (pCi/L, g, F):	0.236
Are sample and/or duplicate results below RL?	See Below #1
Duplicate Numerical Performance Indicator:	1.090
Duplicate RPD:	56.72%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Fail
% RPD Limit:	25%

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

Comments:

***Batch must be re-prepped due to unacceptable precision. 4/11/20 2:14

KLB
4-6-2020

4/11/20

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 3/30/2020
Worklist: 53054
Matrix: WT

Method Blank Assessment	
MB Sample ID	1886060
MB concentration:	0.677
M/B 2 Sigma CSU:	0.348
MB MDC:	0.601
MB Numerical Performance Indicator:	3.81
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment**

Laboratory Control Sample Assessment	
LCSID (Y or N)?	Y
LCS53054	4/8/2020
Count Date:	4/8/2020
Spike I.D.:	19-057
Decay Corrected Spike Concentration (pCi/mL):	34.561
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.809
Target Conc. (pCi/L, g, F):	4.274
Uncertainty (Calculated):	0.308
Result (pCi/L, g, F):	4.437
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.012
Numerical Performance Indicator:	0.30
Percent Recovery:	103.82%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment	
Sample I.D.:	LCS53054
Duplicate Sample I.D.:	LCS53054
Sample Result (pCi/L, g, F):	4.437
Sample Duplicate Result (pCi/L, g, F):	1.012
Sample Duplicate Result (pCi/L, g, F):	4.432
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.016
Are sample and/or duplicate results below RL?:	NO
Duplicate Numerical Performance Indicator:	0.006
Duplicate (Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	0.35%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	38%

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:		

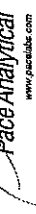
Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Sample Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): Duplicate Numerical Performance Indicator: Duplicate (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.

One 4/10/20

Quality Control Sample Performance Assessment



Test: Ra-228
 Analyst: VAL
 Date: 4/1/2020
 Worklist: 53171
 Matrix: WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	1890327
MB concentration:	0.272
M/B 2 Sigma CSU:	0.343
MB MDC:	0.726
MB Numerical Performance Indicator:	1.55
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSID (Y or N)?	Y
LCS53171	LCS063171
4/10/2020	4/10/2020
Count Date:	19-057
Spike I.D.:	34.538
Decay Corrected Spike Concentration (pCi/ml):	0.10
Volume Used (mL):	0.802
Aliquot Volume (L, g, F):	4.306
Target Conc. (pCi/L, g, F):	0.308
Uncertainty (Calculated):	3.884
Result (pCi/L, g, F):	0.957
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	-0.76
Numerical Performance Indicator:	90.54%
Percent Recovery:	N/A
Status vs Numerical Indicator:	Pass
Upper % Recovery Limits:	135%
Lower % Recovery Limits:	60%

Duplicate Sample Assessment	
LCS53171	LCS53171
4/10/2020	4/10/2020
Sample I.D.:	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	3.899
Sample Duplicate Result (pCi/L, g, F):	0.963
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	3.884
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.957
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.021
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	0.43%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

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

Comments:

Handwritten signature/initials

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

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

LEVEL 2A LABORATORY DATA VALIDATIONS

Plant Yates Gypsum Storage

1st Semi-Annual Event

March 2020

Georgia Power Company – Plant Yates Gypsum Storage Quality Control Review of Analytical Data – March 2020

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Pace Analytical Services, Asheville, Atlanta, and Pittsburgh for groundwater samples collected at Plant Yates Gypsum Storage between March 17, 2020 and March 18, 2020. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision-making purposes.

Information regarding the primary sample locations, analytical parameters, QC samples, sampling dates, and laboratory sample delivery group (SDG) designations is summarized in Table 1 of this Appendix. SDG 2630255 was revised by the laboratory to correct the DUP-1 sample data that were switched with SDG 2630320 AP-2, to add target analytes that were not requested on the original chain of custody (COC), and to correct errant selenium data originally reported for sample GWC-3R.

In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 CFR, Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detected monitoring constituents listed in 40 CFR, Part 257, Appendix III and assessment monitoring constituents listed in 40 CFR, Part 257, Appendix IV. Test methods included Inductively Coupled Plasma (USEPA 6010D), Inductively Coupled Plasma – Mass Spectrometry (USEPA Method 6020B), Determination of Inorganic Anions (USEPA Method 300.0), Solids in Water (Standard Methods 2540C), Radium-226 (USEPA 9315), and Radium-228 (USEPA Method 9320).

Data were reviewed in accordance with the US EPA 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. 2.0)¹ and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)². The review included an assessment of the results for completeness, precision (laboratory duplicate recoveries and matrix spike/matrix spike duplicate recoveries), accuracy (laboratory control samples and matrix spike samples), and blank contamination (field, equipment, and laboratory blanks). Sample receipt conditions, holding times, and COCs were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were used.

DATA QUALITY OBJECTIVES

Laboratory Precision: Laboratory goals for precision were met.

Field Precision: Field goals for precision were met, with the exception of Copper on GWC-4R (2630255008) and DUP-1 (2630320010) as described in the qualifications section below.

Accuracy: Laboratory goals for accuracy were met, with the exception of Sulfate on GWA-2 (2630255001) as described in the qualifications section below.

Detection Limits: Project goals for detection limits were met.

Completeness: There were no rejected analytical results for this event, resulting in a completion of 100%.

Holding Times: Holding time requirements were met.

QUALIFICATIONS

In general, chemical results for the samples collected at the site were qualified on the basis of low precision or low accuracy or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data by the laboratory during the validation process:

J: The analyte was positively identified above the method detection limit; however, the associated numerical value is the approximate concentration of the analyte in the sample

ND: The analyte was not detected above the method detection limit

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines except as specified below. The applied qualifications may not have been required for all samples collected at the site. A summary of sample qualifications can be found in Table 2 of this Appendix.

- Sample GWA-2 (2630255001) was qualified as estimated (J) for Sulfate as the matrix spike (MS) and matrix spike duplicate (MSD) recoveries were below QC criteria (78% and 74%, respectively below range of 90-110).

- Samples GWC-4R (2630255008) and DUP-1 (2630320010) were qualified as estimated (J) for Copper as the field RPD exceeded QC criteria (28.57% above limit of 25).
- Certain radium results in SDG 2630255 were qualified as non-detect (ND) due to the analyte being detected at a similar concentration in an associated blank sample. As shown in Table 2, the minimum detectable concentration (MDC) was raised to the sample result as part of the qualification process.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from the Plant Yates Gypsum Storage sampled between March 17, 2020 and March 18, 2020 in accordance with the analytical methods, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

REFERENCES

¹USEPA, September 2011, Region 4, Science and Ecosystem Support Division, Quality Assurance Section, MTSB, Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy, Revision 2.0

²USEPA, January 2017, National Office of Superfund Remediation and Technology Innovation, National Functional Guidelines for Inorganic Superfund Methods Data Review, Revision 0.0

TABLE 1

Georgia Power Company – Plant Yates Gypsum Storage

Sample Summary Table – March 2020

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Metals (6010D, 6020B)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (9315, 9320)
30255	GWA-2	3/17/2020	2630255001	GW		X	X	X	X
30255	GWC-6R	3/17/2020	2630255002	GW		X	X	X	X
30255	FB-1-3-17-20	3/17/2020	2630255003	WQ	FB	X	X	X	X
30255	GWC-3R	3/17/2020	2630255004	GW		X	X	X	X
30255	GWC-1R	3/17/2020	2630255005	GW		X	X	X	X
30255	EB-1-3-18-20	3/18/2020	2630255006	WQ	EB	X	X	X	X
30255	GWC-5R	3/18/2020	2630255007	GW		X	X	X	X
30255	GWC-4R	3/18/2020	2630255008	GW		X	X	X	X
30255	GWC-2R	3/18/2020	2630255010	GW		X	X	X	X
30320	DUP-1	3/18/2020	2630320010	GW	FD (GWC-4R)	X	X	X	X

Abbreviations:

- EB – Equipment Blank
- FB – Field Blank
- FD – Field Duplicate
- GW – Groundwater
- QC – Quality Control
- TDS – Total Dissolved Solids
- WQ – Water Quality Control

TABLE 2

Georgia Power Company – Plant Yates Gypsum Storage

Qualifier Summary Table – March 2020

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
30255	GWA-2	Sulfate			J	MS/MSD recoveries below QC criteria
30255	GWC-4R	Copper			J	RPD exceeds field goal
30255	DUP-1	Copper			J	RPD exceeds field goal
30255	GWA-2	Radium-226		0.223	ND	Blank detection
30255	GWA-2	Radium-228		0.902	ND	Blank detection
30255	GWC-6R	Radium-226		0.198	ND	Blank detection
30255	GWC-6R	Radium-228		0.881	ND	Blank detection
30255	GWC-3R	Radium-226		0.239	ND	Blank detection
30255	GWC-3R	Radium-228		1.12	ND	Blank detection
30255	GWC-1R	Radium-226		0.229	ND	Blank detection
30255	GWC-1R	Radium-228		0.821	ND	Blank detection
30255	GWC-5R	Radium-226		0.234	ND	Blank detection
30255	GWC-5R	Radium-228		0.747	ND	Blank detection
30255	GWC-4R	Radium-226		0.402	ND	Blank detection
30255	GWC-4R	Radium-228		0.847	ND	Blank detection
30255	GWC-2R	Radium-226		0.461	ND	Blank detection
30255	GWC-2R	Radium-228		0.819	ND	Blank detection

Abbreviations:

MDC – Minimum Detectable Concentration
MS/MSD – Matrix Spike / Matrix Spike Duplicate
MDL – Method Detection Limit
RL – Reporting Limit
RPD – Relative Percent Difference
SDG – Sample Delivery Group

Qualifiers:

J – Estimated Result
ND – Non-Detect Result

May 18, 2020

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: PLANT YATES GYPSUM STORAGE
Pace Project No.: 2631719

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on May 08, 2020. 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 - Atlanta, GA

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

Sincerely,



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

Enclosures

cc: Geoffrey Gay, ARCADIS - Atlanta
Kristen Jurinko
Lauren Petty, Southern Company Services, Inc.
Kelley Sharpe, ARCADIS - Atlanta
Alexandra Simpson, Arcadis
Samantha Thomas, Arcadis



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: PLANT YATES GYPSUM STORAGE
Pace Project No.: 2631719

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092
Florida DOH Certification #: E87315
Georgia DW Inorganics Certification #: 812
Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

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SAMPLE SUMMARY

Project: PLANT YATES GYPSUM STORAGE

Pace Project No.: 2631719

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2631719001	GWA-2	Water	05/06/20 10:50	05/08/20 08:28
2631719002	GWC-1R	Water	05/06/20 14:25	05/08/20 08:28
2631719003	GWC-2R	Water	05/07/20 10:00	05/08/20 08:28
2631719004	GWC-3R	Water	05/07/20 12:15	05/08/20 08:28
2631719005	GWC-4R	Water	05/07/20 14:15	05/08/20 08:28
2631719006	GWC-5R	Water	05/07/20 10:45	05/08/20 08:28
2631719007	GWC-6R	Water	05/06/20 13:25	05/08/20 08:28
2631719008	EB-1-5-7-20	Water	05/07/20 12:25	05/08/20 08:28
2631719009	DUP 1	Water	05/07/20 00:00	05/08/20 08:28
2631719010	FB-1-5-6-20	Water	05/06/20 14:35	05/08/20 08:28

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SAMPLE ANALYTE COUNT

Project: PLANT YATES GYPSUM STORAGE
Pace Project No.: 2631719

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2631719001	GWA-2	EPA 7470A	VHB	1
2631719002	GWC-1R	EPA 7470A	VHB	1
2631719003	GWC-2R	EPA 7470A	VHB	1
2631719004	GWC-3R	EPA 7470A	VHB	1
2631719005	GWC-4R	EPA 7470A	VHB	1
2631719006	GWC-5R	EPA 7470A	VHB	1
2631719007	GWC-6R	EPA 7470A	VHB	1
2631719008	EB-1-5-7-20	EPA 7470A	VHB	1
2631719009	DUP 1	EPA 7470A	VHB	1
2631719010	FB-1-5-6-20	EPA 7470A	VHB	1

PASI-GA = Pace Analytical Services - Atlanta, GA

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SUMMARY OF DETECTION

Project: PLANT YATES GYPSUM STORAGE

Pace Project No.: 2631719

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2631719001	GWA-2 Field pH	6.24	Std. Units		05/14/20 07:48	
2631719002	GWC-1R Field pH	6.80	Std. Units		05/14/20 07:48	
2631719003	GWC-2R Field pH	5.43	Std. Units		05/14/20 07:48	
2631719004	GWC-3R Field pH	5.05	Std. Units		05/14/20 07:48	
2631719005	GWC-4R Field pH	5.52	Std. Units		05/14/20 07:48	
2631719006	GWC-5R Field pH	5.20	Std. Units		05/14/20 07:48	
2631719007	GWC-6R Field pH	5.99	Std. Units		05/14/20 07:48	

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ANALYTICAL RESULTS

Project: PLANT YATES GYPSUM STORAGE

Pace Project No.: 2631719

Sample: GWA-2		Lab ID: 2631719001		Collected: 05/06/20 10:50	Received: 05/08/20 08:28	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	6.24	Std. Units			1		05/14/20 07:48		
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Atlanta, GA									
Mercury	ND	mg/L	0.00050	0.00014	1	05/11/20 07:30	05/12/20 15:37	7439-97-6	

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ANALYTICAL RESULTS

Project: PLANT YATES GYPSUM STORAGE

Pace Project No.: 2631719

Sample: GWC-1R		Lab ID: 2631719002		Collected: 05/06/20 14:25	Received: 05/08/20 08:28	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	6.80	Std. Units			1		05/14/20 07:48		
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Atlanta, GA									
Mercury	ND	mg/L	0.00050	0.00014	1	05/11/20 07:30	05/12/20 15:47	7439-97-6	

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ANALYTICAL RESULTS

Project: PLANT YATES GYPSUM STORAGE

Pace Project No.: 2631719

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: GWC-2R									
Lab ID: 2631719003									
Collected: 05/07/20 10:00 Received: 05/08/20 08:28 Matrix: Water									
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	5.43	Std. Units			1		05/14/20 07:48		
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Atlanta, GA									
Mercury	ND	mg/L	0.00050	0.00014	1	05/11/20 07:30	05/12/20 15:49	7439-97-6	

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ANALYTICAL RESULTS

Project: PLANT YATES GYPSUM STORAGE

Pace Project No.: 2631719

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: GWC-3R									
Lab ID: 2631719004									
Collected: 05/07/20 12:15 Received: 05/08/20 08:28 Matrix: Water									
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	5.05	Std. Units			1		05/14/20 07:48		
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Atlanta, GA									
Mercury	ND	mg/L	0.00050	0.00014	1	05/11/20 07:30	05/12/20 15:52	7439-97-6	

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ANALYTICAL RESULTS

Project: PLANT YATES GYPSUM STORAGE

Pace Project No.: 2631719

Sample: GWC-4R		Lab ID: 2631719005		Collected: 05/07/20 14:15	Received: 05/08/20 08:28	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method: Pace Analytical Services - Atlanta, GA								
Field pH	5.52	Std. Units			1		05/14/20 07:48		
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Atlanta, GA								
Mercury	ND	mg/L	0.00050	0.00014	1	05/11/20 07:30	05/12/20 16:01	7439-97-6	

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ANALYTICAL RESULTS

Project: PLANT YATES GYPSUM STORAGE

Pace Project No.: 2631719

Sample: GWC-5R		Lab ID: 2631719006		Collected: 05/07/20 10:45		Received: 05/08/20 08:28		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	5.20	Std. Units			1		05/14/20 07:48		
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Atlanta, GA									
Mercury	ND	mg/L	0.00050	0.00014	1	05/11/20 07:30	05/12/20 16:03	7439-97-6	

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ANALYTICAL RESULTS

Project: PLANT YATES GYPSUM STORAGE

Pace Project No.: 2631719

Sample: GWC-6R		Lab ID: 2631719007		Collected: 05/06/20 13:25	Received: 05/08/20 08:28	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	5.99	Std. Units			1		05/14/20 07:48		
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Atlanta, GA									
Mercury	ND	mg/L	0.00050	0.00014	1	05/11/20 07:30	05/12/20 16:06	7439-97-6	

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ANALYTICAL RESULTS

Project: PLANT YATES GYPSUM STORAGE

Pace Project No.: 2631719

Sample: EB-1-5-7-20	Lab ID: 2631719008	Collected: 05/07/20 12:25	Received: 05/08/20 08:28	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Atlanta, GA									
Mercury	ND	mg/L	0.00050	0.00014	1	05/11/20 07:30	05/12/20 16:08	7439-97-6	

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ANALYTICAL RESULTS

Project: PLANT YATES GYPSUM STORAGE

Pace Project No.: 2631719

Sample: DUP 1		Lab ID: 2631719009		Collected: 05/07/20 00:00	Received: 05/08/20 08:28	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Atlanta, GA							
Mercury	ND	mg/L	0.00050	0.00014	1	05/11/20 07:30	05/12/20 16:10	7439-97-6	

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ANALYTICAL RESULTS

Project: PLANT YATES GYPSUM STORAGE

Pace Project No.: 2631719

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Sample: FB-1-5-6-20									
Lab ID: 2631719010									
Collected: 05/06/20 14:35 Received: 05/08/20 08:28 Matrix: Water									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Atlanta, GA									
Mercury	ND	mg/L	0.00050	0.00014	1	05/11/20 07:30	05/12/20 16:13	7439-97-6	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PLANT YATES GYPSUM STORAGE

Pace Project No.: 2631719

QC Batch: 46250

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Laboratory: Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2631719001, 2631719002, 2631719003, 2631719004, 2631719005, 2631719006, 2631719007, 2631719008, 2631719009, 2631719010

METHOD BLANK: 214584

Matrix: Water

Associated Lab Samples: 2631719001, 2631719002, 2631719003, 2631719004, 2631719005, 2631719006, 2631719007, 2631719008, 2631719009, 2631719010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.00014	05/12/20 15:33	

LABORATORY CONTROL SAMPLE: 214585

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0029	115	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 214586 214587

Parameter	Units	2631719001 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	0.0027	0.0027	110	107	75-125	3	20	

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

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QUALIFIERS

Project: PLANT YATES GYPSUM STORAGE

Pace Project No.: 2631719

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.

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.

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

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT YATES GYPSUM STORAGE
Pace Project No.: 2631719

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2631719001	GWA-2				
2631719002	GWC-1R				
2631719003	GWC-2R				
2631719004	GWC-3R				
2631719005	GWC-4R				
2631719006	GWC-5R				
2631719007	GWC-6R				
2631719001	GWA-2	EPA 7470A	46250	EPA 7470A	46275
2631719002	GWC-1R	EPA 7470A	46250	EPA 7470A	46275
2631719003	GWC-2R	EPA 7470A	46250	EPA 7470A	46275
2631719004	GWC-3R	EPA 7470A	46250	EPA 7470A	46275
2631719005	GWC-4R	EPA 7470A	46250	EPA 7470A	46275
2631719006	GWC-5R	EPA 7470A	46250	EPA 7470A	46275
2631719007	GWC-6R	EPA 7470A	46250	EPA 7470A	46275
2631719008	EB-1-5-7-20	EPA 7470A	46250	EPA 7470A	46275
2631719009	DUP 1	EPA 7470A	46250	EPA 7470A	46275
2631719010	FB-1-5-6-20	EPA 7470A	46250	EPA 7470A	46275

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page 1 of 1

Section A Required Client Information: Company: GA Power Address: Atlanta, GA		Section B Required Project Information: Report To: SCS Contacts Copy To: ACC Contacts		Section C Invoicing Information: Attention: Southern Co. Company Name: Address:	
Email To: SCS Contacts Phone: <input type="checkbox"/> Fax Requested Date Data/TAT:		Purchase Order No.: Project Name: Plant Yates Gypsum Storage Project Number:		Plant Yates Project Manager: Kevin Harting Plant Profile #: 2916-14	
REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER <input type="checkbox"/>		Site Location STATE: GA		Requested Analysis Filtered (Y/N):	

ITEM #	Section D Required Client Information Valid Results Codes MATERIAL DISPOSAL WATER WASTEWATER WASTE WATER PRODUCT SC02/SO2L OIL WASTE AIR DRIVER TISSE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	SAMPLE CONDITIONS
				DATE	TIME							
1	GWA-2	GW G	G	5/18/20	10:50		1					PH= 6.24
2	GWC-1R	GW G	G	5/18/20	14:25		1					PH= 6.80
3	GWC-2R	GW G	G	5/17/20	13:00		1					PH= 5.43
4	GWC-3R	GW G	G	5/17/20	12:15		1					PH= 5.05
5	GWC-4R	GW G	G	5/17/20	14:15		1					PH= 5.52
6	GWC-5R	GW G	G	5/17/20	10:45		1					PH= 5.20
7	GWC-6R	GW G	G	5/16/20	13:25		1					PH= 5.99
8	EG-1-5-7-20	WT G	G	5/17/20	12:25		1					PH= N/A
9	DUP 1	WT G	G				1					PH= N/A
10	FB-1-5-6-20	WT G	G	5/16/20	14:35		1					PH= N/A
11												
12												

ADDITIONAL COMMENTS
 Note when the test sample for the project has been taken.

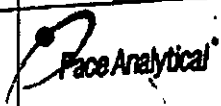
RELINQUISHED BY / AFFILIATION
[Signature]

DATE: 5/18/20 TIME: 0828

ACCEPTED BY / AFFILIATION
[Signature]

DATE: 5/17/2020 TIME: 0828

SPECTER TOTTLE AND SIGNATURE PRINT Name of SAMPLER: Anna Schwilke SIGNATURE of SAMPLER: <i>[Signature]</i>		DATE Signed (MM/DD/YYYY): 5/17/2020 Temp in °C: _____ Received on Ice (Y/N): _____ Custody Sealed Cooler (Y/N): _____ Samples intact (Y/N): _____	
--	--	---	--



Document Name:
Bottle Identification Form (BIF)
Document No.:
F-CAR-CS-043-Rev.00

Document issued: March 14, 2019
Page 1 of 1
Issuing Authority:
Pace Carolinas Quality Office

Project #

*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 bottle

Matrix	Item#	Item Description
	BP40-125	ml Plastic Unpreserved (N/A) (C-)
	BP30-250	ml Plastic Unpreserved (N/A)
	BP20-500	ml Plastic Unpreserved (N/A)
	BP10-1	liter Plastic Unpreserved (N/A)
	BP45-125	ml Plastic H2SO4 (pH < 2) (C-)
	BP35-250	ml Plastic HNO3 (pH < 2)
	BP42-125	ml Plastic ZN Acetate & NaOH (p>9)
	BP4C-125	ml Plastic NaOH (pH > 12) (C-)
	WGFU	Wide-mouthed Glass jar Unpreserved
	AG10-1	liter Amber Unpreserved (N/A) (C-)
	AG10H-1	liter Amber HCl (pH < 2)
	AG30-250	ml Amber Unpreserved (N/A) (C-)
	AG35-1	liter Amber H2SO4 (pH < 2)
	AG35-250	ml Amber H2SO4 (pH < 2)
	AG3A(DG3A)	-250 ml Amber NH4Cl (N/A)(C-)
	D69H-40	ml VOA HCl (N/A)
	VG3T-40	ml VOA Na2S2O3 (N/A)
	VG3U-40	ml VOA Unp (N/A)
	DG3B-40	ml VOA H3PO4 (N/A)
	VOAK	(# vials per kit)-5035 kit (N/A)
	V/GK	(# vials per kit)-VPH/Gas kit (N/A)
	SP5T-125	ml Sterile Plastic (N/A - lab)
	SP2T-250	ml Sterile Plastic (N/A - lab)
	BP3A-250	ml Plastic (NH2)2SO4 (9.3-9.7)
	AG30-100	ml Amber Unpreserved vials (N/A)
	VS30-20	ml Scintillation vials (N/A)

pH Adjustment Log for Preserved Samples

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

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



Sample Condition Upon Receipt

Client Name: Ga Power Project # _____

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

Optional:
PO: _____
DU: _____
Date: _____
PI: _____
Name: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used TH233 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature -0.8 Biological Tissue is Frozen: Yes No
Temp should be above freezing to 6°C

Date and Initials of person examining contents: VIEW 5/8/20

Comments: _____

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>GaW, WWT</u>		
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed <u>5/8/20</u> Lot # of added preservative <u>VIEW</u>
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Field Data Required? Y / N

Client Notification/ Resolution:
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

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

Appendix B

Field Sampling Reports



Product Name: Low-Flow System

Date: 2019-08-19 12:27:52

Project Information:

Operator Name Chris Parker
Company Name Atlantic Coast Consulting
Project Name Plant Yates Gypsum
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642533
Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type Bladder Pump
Tubing Type Poly
Tubing Diameter .25 in
Tubing Length 52 ft

Pump placement from TOC 47.1 ft

Well Information:

Well ID GWA-2
Well diameter 2 in
Well Total Depth 52.13 ft
Screen Length 10 ft
Depth to Water 36.04 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.981942 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	12:00:34	900.01	21.86	6.27	413.11	6.05	36.70	0.89	108.21
Last 5	12:05:34	1200.01	21.82	6.27	410.78	5.47	36.80	0.74	112.54
Last 5	12:10:34	1500.01	21.85	6.26	406.75	3.23	36.90	0.59	111.74
Last 5	12:15:34	1800.01	22.07	6.24	399.83	3.08	36.90	0.51	108.89
Last 5	12:20:34	2100.00	21.84	6.23	394.29	2.20	36.90	0.44	114.08
Variance 0			0.03	-0.01	-4.03			-0.15	-0.81
Variance 1			0.21	-0.02	-6.93			-0.08	-2.84
Variance 2			-0.23	-0.01	-5.53			-0.07	5.19

Notes

Sampled at 12:25. Cloudy 80s

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-20 10:07:24

Project Information:

Operator Name Chris Parker
Company Name Atlantic Coast Consulting
Project Name Plant Yates Gypsum
Site Name Plant Yates Gypsum
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642533
Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type Peripump
Tubing Type Poly
Tubing Diameter .17 in
Tubing Length 36 ft

Pump placement from TOC 31 ft

Well Information:

Well ID GWC-1R
Well diameter 2 in
Well Total Depth 36.34 ft
Screen Length 10 ft
Depth to Water 22.67 ft

Pumping Information:

Final Pumping Rate 140 mL/min
Total System Volume 0.2506832 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5 in
Total Volume Pumped 4.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	09:45:25	300.07	23.95	5.36	775.48	2.55	23.10	6.29	86.69
Last 5	09:50:25	600.02	21.81	5.34	826.19	1.43	23.10	6.39	61.15
Last 5	09:55:25	900.01	22.14	5.33	840.12	1.00	23.20	6.23	56.77
Last 5	10:00:25	1200.01	22.03	5.33	841.05	1.07	23.20	6.16	55.14
Last 5	10:05:25	1500.01	21.92	5.33	832.63	0.93	23.20	6.10	54.26
Variance 0			0.32	-0.01	13.94			-0.17	-4.37
Variance 1			-0.11	-0.01	0.93			-0.07	-1.63
Variance 2			-0.11	0.00	-8.43			-0.06	-0.88

Notes

Sampled at 10:10. Sunny 80s

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-20 13:49:18

Project Information:

Operator Name Chris Parker
Company Name Atlantic Coast Consulting
Project Name Plant Yates Gypsum
Site Name Plant Yates Gypsum
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642533
Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type Peripump
Tubing Type Poly
Tubing Diameter .17 in
Tubing Length 43 ft

Pump placement from TOC 38 ft

Well Information:

Well ID GWC-2R
Well diameter 2 in
Well Total Depth 43.80 ft
Screen Length 10 ft
Depth to Water 28.62 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.2819272 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2 in
Total Volume Pumped 7.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	13:23:33	1200.01	21.37	5.35	497.88	6.64	28.80	4.14	57.23
Last 5	13:28:33	1500.02	21.34	5.32	503.99	6.37	28.80	4.22	56.43
Last 5	13:33:39	1806.01	21.58	5.34	506.02	5.26	28.80	4.10	56.65
Last 5	13:38:39	2106.00	21.52	5.32	505.84	5.10	28.80	4.27	56.17
Last 5	13:43:39	2405.99	21.76	5.33	503.21	4.92	28.80	4.21	56.24
Variance 0			0.24	0.01	2.03			-0.12	0.22
Variance 1			-0.06	-0.02	-0.18			0.17	-0.48
Variance 2			0.24	0.00	-2.63			-0.06	0.08

Notes

Sampled at 1350. Sunny, 90s. FB -1 here @ 1325.

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-21 12:52:51

Project Information:

Operator Name Chris Parker
Company Name Atlantic Coast Consulting
Project Name Plant Yates Gypsum
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642533
Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type QED BLADDER PUMP
Tubing Type Poly
Tubing Diameter .25 in
Tubing Length 38.3 ft

Pump placement from TOC 33.3 ft

Well Information:

Well ID GWC-3R
Well diameter 2 in
Well Total Depth 38.34 ft
Screen Length 10 ft
Depth to Water 28.37 ft

Pumping Information:

Final Pumping Rate 260 mL/min
Total System Volume 0.8496996 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 7 in
Total Volume Pumped 19 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	12:25:26	2402.99	20.13	5.30	207.14	5.39	29.00	7.12	21.18
Last 5	12:30:26	2702.99	20.08	5.31	201.83	4.41	29.00	7.15	21.38
Last 5	12:35:26	3002.99	20.26	5.31	203.27	4.88	29.00	7.21	22.66
Last 5	12:40:26	3302.98	20.22	5.31	197.45	3.33	29.00	7.13	22.48
Last 5	12:45:32	3608.98	20.26	5.32	194.34	3.30	29.00	7.17	23.02
Variance 0			0.18	0.01	1.44			0.06	1.29
Variance 1			-0.04	-0.00	-5.82			-0.09	-0.18
Variance 2			0.04	0.01	-3.12			0.04	0.54

Notes

Sampled at 1250. Sunny, 80s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-19 15:59:36

Project Information:

Operator Name Chris Parker
Company Name Atlantic Coast Consulting
Project Name Plant Yates Gypsum
Site Name Plant Yates Gypsum
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642533
Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type Peripump
Tubing Type Poly
Tubing Diameter .17 in
Tubing Length 31.0 ft

Pump placement from TOC 26.0 ft

Well Information:

Well ID GWC-4R
Well diameter 2 in
Well Total Depth 31.05 ft
Screen Length 10 ft
Depth to Water 16.62 ft

Pumping Information:

Final Pumping Rate 190 mL/min
Total System Volume 0.2283661 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5 in
Total Volume Pumped 25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	15:34:22	7208.85	23.53	5.57	555.51	1.20	17.00	2.55	116.63
Last 5	15:39:22	7508.84	22.67	5.56	560.08	0.69	17.00	2.71	111.97
Last 5	15:44:22	7808.84	22.65	5.56	505.34	0.64	17.00	2.89	104.53
Last 5	15:49:22	8108.83	22.54	5.56	495.13	0.77	17.00	2.95	102.23
Last 5	15:54:23	8409.83	21.94	5.56	506.25	0.85	17.00	3.01	100.41
Variance 0			-0.02	0.01	-54.74			0.17	-7.44
Variance 1			-0.11	0.00	-10.21			0.06	-2.30
Variance 2			-0.60	-0.00	11.12			0.07	-1.82

Notes

Sampled at 16:00. Sunny 90s. EB-1 here at 15:30 - Peripump tubing

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-21 10:44:09

Project Information:

Operator Name Chris Parker
Company Name Atlantic Coast Consulting
Project Name Plant Yates Gypsum
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642533
Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type Poly
Tubing Diameter .25 in
Tubing Length 42.8 ft

Pump placement from TOC 37.8 ft

Well Information:

Well ID GWC-5R
Well diameter 2 in
Well Total Depth 42.82 ft
Screen Length 10 ft
Depth to Water 28.8 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.8931369 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 10 in
Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	10:15:04	600.02	21.47	4.85	2201.05	3.37	29.50	7.76	32.64
Last 5	10:20:04	900.01	21.12	4.83	2236.43	3.10	29.60	7.69	36.77
Last 5	10:25:04	1200.00	20.97	4.84	2247.51	3.31	29.60	7.68	39.18
Last 5	10:30:04	1500.00	21.09	4.85	2229.47	2.98	29.60	7.64	41.33
Last 5	10:35:04	1800.00	20.94	4.88	2192.47	3.96	29.60	7.62	43.50
Variance 0			-0.15	0.00	11.08			-0.01	2.41
Variance 1			0.11	0.02	-18.04			-0.04	2.15
Variance 2			-0.15	0.03	-37.00			-0.03	2.17

Notes

Sampled at 1045. Sunny, 70s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-08-20 12:00:30

Project Information:

Operator Name Chris Parker
Company Name Atlantic Coast Consulting
Project Name Plant Yates Gypsum
Site Name Plant Yates Gypsum
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 642533
Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type Bladder Pump
Tubing Type Poly
Tubing Diameter .25 in
Tubing Length 51 ft

Pump placement from TOC 46 ft

Well Information:

Well ID GWC-6R
Well diameter 2 in
Well Total Depth 51.87 ft
Screen Length 10 ft
Depth to Water 34.88 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.9722893 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5 in
Total Volume Pumped 6.4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	11:35:37	900.02	19.57	5.87	1476.64	0.75	35.30	5.60	52.95
Last 5	11:40:37	1200.01	19.31	5.87	1476.38	0.47	35.30	4.97	55.14
Last 5	11:45:37	1500.01	19.20	5.86	1474.41	0.33	35.30	4.81	56.58
Last 5	11:50:37	1800.00	19.15	5.85	1475.61	0.44	35.30	4.78	57.36
Last 5	11:55:37	2100.00	19.02	5.85	1480.66	0.40	35.30	4.76	57.98
Variance 0			-0.11	-0.01	-1.97			-0.17	1.44
Variance 1			-0.05	-0.01	1.20			-0.03	0.78
Variance 2			-0.13	-0.01	5.05			-0.02	0.62

Notes

Sampled at 12:00. Sunny 80s. DUP 1 here

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-08 15:16:08

Project Information:

Operator Name Ryan Walker
Company Name ACC
Project Name Plant Yates
Site Name Gypsum
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 643819
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 52 ft

Pump placement from TOC 47 ft

Well Information:

Well ID GWA-2
Well diameter 2 in
Well Total Depth 52.13 ft
Screen Length 10 ft
Depth to Water 36.25 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 0.891942 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 8 in
Total Volume Pumped 3.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 10
Last 5	14:55:30	900.01	21.77	6.26	423.93	8.94	36.80	1.21	80.74
Last 5	15:00:30	1200.00	22.46	6.26	431.92	7.95	36.90	1.05	78.83
Last 5	15:05:30	1500.00	23.25	6.29	429.24	6.09	36.90	1.05	76.71
Last 5	15:10:30	1799.99	23.45	6.29	424.23	4.60	36.90	1.14	76.01
Last 5	15:15:30	2099.98	23.52	6.28	416.33	4.29	36.90	1.11	77.85
Variance 0			0.79	0.02	-2.68			0.00	-2.12
Variance 1			0.19	0.00	-5.01			0.09	-0.70
Variance 2			0.08	-0.01	-7.89			-0.03	1.84

Notes

Sampled at 15:15. Sunny, 80's.

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-09 16:16:00

Project Information:

Operator Name Ryan Walker
Company Name ACC
Project Name Gypsum
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 643819
Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type Peristaltic Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 36 ft

Pump placement from TOC 31 ft

Well Information:

Well ID GWC-1R
Well diameter 2 in
Well Total Depth 36.34 ft
Screen Length 10 ft
Depth to Water 24.23 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.2506832 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 9 in
Total Volume Pumped 4.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 10
Last 5	15:55:20	600.02	20.48	5.34	752.82	7.33	25.00	6.83	80.71
Last 5	16:00:20	900.01	20.35	5.34	741.70	6.97	25.00	6.90	81.32
Last 5	16:05:20	1200.01	20.45	5.34	736.97	5.80	25.00	6.77	81.76
Last 5	16:10:20	1500.00	20.04	5.35	725.06	4.92	25.00	6.92	82.41
Last 5	16:15:20	1800.00	19.59	5.37	709.79	4.61	25.00	6.94	83.17
Variance 0			0.09	0.01	-4.73			-0.13	0.44
Variance 1			-0.41	0.01	-11.91			0.15	0.65
Variance 2			-0.44	0.02	-15.27			0.02	0.76

Notes

Sampled at 16:15. Sunny, 80's.

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-09 17:21:26

Project Information:

Operator Name Ryan Walker
Company Name ACC
Project Name Gypsum
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 643819
Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type Peristaltic Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 43 ft

Pump placement from TOC 38 ft

Well Information:

Well ID GWC-2R
Well diameter 2 in
Well Total Depth 43.80 ft
Screen Length 10 ft
Depth to Water 29.79 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.2819272 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2 in
Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 10
Last 5	17:00:45	600.02	19.55	5.42	445.89	6.91	29.90	4.32	95.86
Last 5	17:05:45	900.02	19.32	5.41	446.41	6.26	29.90	4.35	95.87
Last 5	17:10:45	1200.01	19.33	5.39	453.76	3.95	29.90	4.55	95.22
Last 5	17:15:45	1500.00	19.46	5.39	457.67	3.47	29.90	4.45	94.74
Last 5	17:20:45	1800.00	19.32	5.39	456.56	3.65	29.90	4.66	94.63
Variance 0			0.01	-0.02	7.35			0.20	-0.65
Variance 1			0.13	-0.00	3.91			-0.10	-0.47
Variance 2			-0.14	-0.00	-1.11			0.21	-0.11

Notes

Sampled at 17:20. Sunny, 80's. EB-1 here.

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-10 10:59:22

Project Information:

Operator Name Chris Parker
Company Name Atlantic Coast Consulting
Project Name R6
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 466058
Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type Bladder Pump
Tubing Type Poly
Tubing Diameter .25 in
Tubing Length 38 ft

Pump placement from TOC 33 ft

Well Information:

Well ID GWC-3R
Well diameter 2 in
Well Total Depth 38.34 ft
Screen Length 10 ft
Depth to Water 29.70 ft

Pumping Information:

Final Pumping Rate 300 mL/min
Total System Volume 0.8518038 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 13 in
Total Volume Pumped 27 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	10:35:35	3601.94	48.29	5.38	93.69	4.57	30.80	2.88	143.25
Last 5	10:40:36	3902.93	51.60	5.39	89.82	3.61	30.80	2.59	142.54
Last 5	10:45:36	4202.92	55.64	5.39	85.47	3.78	30.80	2.09	139.84
Last 5	10:50:36	4502.91	56.32	5.40	85.69	3.18	30.80	2.07	139.72
Last 5	10:55:36	4802.91	55.79	5.40	83.95	3.26	30.80	2.08	138.07
Variance 0			4.04	0.01	-4.35			-0.50	-2.70
Variance 1			0.68	0.00	0.22			-0.02	-0.12
Variance 2			-0.53	0.00	-1.73			0.00	-1.65

Notes

Sampled at 11:00. Sunny 70s. DUP 1 here.

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-10 13:04:12

Project Information:

Operator Name Ryan Walker
Company Name ACC
Project Name Gypsum
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 643819
Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type Peristaltic Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 31 ft

Pump placement from TOC 26 ft

Well Information:

Well ID GWC-4R
Well diameter 2 in
Well Total Depth 31.05 ft
Screen Length 10 ft
Depth to Water 17.84 ft

Pumping Information:

Final Pumping Rate 170 mL/min
Total System Volume 0.2283661 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4 in
Total Volume Pumped 40 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 10
Last 5	12:42:39	12000.79	20.40	5.54	357.39	1.07	18.20	3.55	94.42
Last 5	12:47:39	12300.89	20.31	5.55	353.88	1.17	18.20	3.52	94.16
Last 5	12:52:39	12600.78	20.48	5.54	350.12	0.92	18.20	3.59	94.84
Last 5	12:57:39	12900.78	20.44	5.54	358.47	0.89	18.20	3.59	95.47
Last 5	13:02:39	13200.77	21.07	5.55	355.28	0.75	18.20	3.58	94.70
Variance 0			0.17	-0.01	-3.76			0.07	0.68
Variance 1			-0.05	0.00	8.35			0.01	0.63
Variance 2			0.63	0.01	-3.19			-0.01	-0.77

Notes

Sampled at 13:02. Sunny, 80's. Extra rad here.

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-09 17:27:32

Project Information:

Operator Name Chris Parker
Company Name Atlantic Coast Consulting
Project Name Gypsum
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 466058
Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type Bladder Pump
Tubing Type Poly
Tubing Diameter .25 in
Tubing Length 43 ft

Pump placement from TOC 38 ft

Well Information:

Well ID GWC-5R
Well diameter 2 in
Well Total Depth 42.82 ft
Screen Length 10 ft
Depth to Water 30.30 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.9000674 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 7 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	17:03:03	2699.96	23.62	4.87	1875.47	7.22	30.80	7.19	272.09
Last 5	17:08:04	3000.96	23.53	4.88	1867.34	6.67	30.80	7.23	267.45
Last 5	17:13:04	3300.95	22.53	4.87	1953.41	5.78	30.90	7.84	255.86
Last 5	17:18:04	3600.94	22.08	4.88	1883.54	5.14	30.90	7.46	235.01
Last 5	17:23:04	3900.93	22.28	4.89	1869.87	4.35	30.90	7.43	219.76
Variance 0			-1.00	-0.01	86.08			0.61	-11.59
Variance 1			-0.45	0.01	-69.87			-0.38	-20.85
Variance 2			0.20	0.01	-13.67			-0.03	-15.25

Notes

Sampled at 17:30. Cloudy 70s

Grab Samples

Product Name: Low-Flow System

Date: 2019-10-08 16:46:44

Project Information:

Operator Name Ryan Walker
Company Name ACC
Project Name Plant Yates
Site Name Gypsum
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 643819
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 51 ft

Pump placement from TOC 46 ft

Well Information:

Well ID GWC-6R
Well diameter 2 in
Well Total Depth 51.87 ft
Screen Length 10 ft
Depth to Water 35.86 ft

Pumping Information:

Final Pumping Rate 160 mL/min
Total System Volume 0.8822893 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 9 in
Total Volume Pumped 7.15 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 10
Last 5	16:25:28	600.02	18.26	5.94	1226.82	0.85	36.60	4.72	70.14
Last 5	16:30:28	900.01	18.13	5.94	1243.64	1.21	36.60	4.70	70.96
Last 5	16:35:28	1200.00	18.11	5.92	1260.06	0.98	36.60	4.74	70.57
Last 5	16:40:28	1500.00	18.05	5.91	1270.27	0.93	36.60	4.73	70.88
Last 5	16:45:28	1799.99	18.07	5.91	1279.33	0.80	36.60	4.77	70.99
Variance 0			-0.02	-0.02	16.42			0.04	-0.39
Variance 1			-0.05	-0.01	10.21			-0.01	0.31
Variance 2			0.01	0.00	9.06			0.04	0.11

Notes

Sampled at 16:45. Sunny, 80's. FB-1 here

Grab Samples

WELL CONDITION SUMMARY



Site: Plant Yates - Ash Ponds

Personnel: kw

Date(s): 10/7-10/8/19

Page: 1 of 5

Well ID	Protective Casing	Well Casing	Label	Bollards	Lock	Well Pad	Weep Hole	Vent Hole	Notes
YAMW-1	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWA-1I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWA-1D	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWA-2I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWA-3I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWA-3D	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWA-4I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWA-5I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWA-5D	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWA-6S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWA-6I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

WELL CONDITION SUMMARY



Site: Plant Yates - Ash Ponds

Personnel: Rw

Date(s): 10/7 - 10/8/19

Page: 2 of 5

Well ID	Protective Casing	Well Casing	Label	Bollards	Lock	Well Pad	Weep Hole	Vent Hole	Notes
YGWA-14S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> OK <input checked="" type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Wellpad covered in thick layer of sediment
YGWA-17S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWA-18S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWA-18I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWA-20S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> OK <input checked="" type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	vegetation starting to overgrow around wellpad
YGWA-21I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWA-30I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWC-23S	<input type="checkbox"/> OK <input checked="" type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> OK <input checked="" type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Protective casing damaged near wellpad - wellpad covered in sediment
YGWC-24S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWC-26S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	right vegetation on wellpad

WELL CONDITION SUMMARY



Site: Plant Yates - Ash Ponds

Personell: RW

Date(s): 10/7 - 10/8/19

Page: 3 of 5

Well ID	Protective Casing	Well Casing	Label	Bollards	Lock	Well Pad	Weep Hole	Vent Hole	Notes
YGWC-26I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	light vegetation on wellpad
YGWC-27S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWC-27I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWC-28S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWC-28I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWC-29I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWC-33S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	vegetation overgrown around wellpad
PZ-01S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
PZ-03S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
PZ-04S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

WELL CONDITION SUMMARY



Site: Plant Yates - Ash Ponds

Personell: RW

Date(s): 10/7 - 10/8/19

Page: 4 of 5

Well ID	Protective Casing	Well Casing	Label	Bollards	Lock	Well Pad	Weep Hole	Vent Hole	Notes
PZ-05S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
PZ-06D	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
PZ-07S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Path to well washing out
PZ-07I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Path to well washing out
PZ-08S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
PZ-08I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
PZ-09S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
PZ-09I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
PZ-10S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
PZ-10I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

WELL CONDITION SUMMARY



ATLANTIC COAST
CONSULTING, INC.

Site: Plant Yates - Ash Ponds

Personell: RW

Date(s): 10/7-10/8/19

Page: 5 of 5

Well ID	Protective Casing	Well Casing	Label	Bollards	Lock	Well Pad	Weep Hole	Vent Hole	Notes
PZ-13S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
PZ-13I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
PZ-14I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> OK <input checked="" type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>well pad covered in thick layer of sediment</i>
PZ-16S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
PZ-16I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
PZ-24I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
PZ-25S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
PZ-25I	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
PZ-31S	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> OK <input checked="" type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<i>sediment covering well pad</i>
PZ-35	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
PZ-48	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

WELL CONDITION SUMMARY



Site: Plant Yates - Gypsum Storage Facility

Personnel: RW

Date(s): 10/7/19

Page: 1 of 1

Well ID	Protective Casing	Well Casing	Label	Bollards	Lock	Well Pad	Weep Hole	Vent Hole	Notes
GWA-2	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
GWC-1R	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
GWC-2R	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
GWC-3R	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
GWC-4R	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input checked="" type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	label says "GWC-4"
GWC-5R	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> OK <input checked="" type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	well pad covered in veg/seed
GWC-6R	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input checked="" type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	sign post laying on bollard
	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Deficient	<input type="checkbox"/> OK <input type="checkbox"/> Deficient	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Deficient	<input type="checkbox"/> OK <input type="checkbox"/> Deficient	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Deficient	<input type="checkbox"/> OK <input type="checkbox"/> Deficient	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	

WELL CONDITION SUMMARY



Site: Plant Yates - Phase 2 Facilities

Personnel: RW

Date(s): 10/7/19

Page: 1 of 2

Well ID	Protective Casing	Well Casing	Label	Bollards	Lock	Well Pad	Weep Hole	Vent Hole	Notes
YGWA-47	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWC-36	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> OK <input checked="" type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Vegetation around well pad overgrowing
YGWC-42	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWC-43	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWC-44	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWC-45	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWC-46	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWC-49	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
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WELL CONDITION SUMMARY



Site: Plant Yates - Phase 2 Facilities

Personnel: RW

Date(s): 10-8-19

Page: 2 of 2

Well ID	Protective Casing	Well Casing	Label	Bollards	Lock	Well Pad	Weep Hole	Vent Hole	Notes
PZ-37	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWC-38	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWA-39	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWA-40	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
YGWC-41	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Deficient	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> OK <input type="checkbox"/> Damaged	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Deficient	<input type="checkbox"/> OK <input type="checkbox"/> Deficient	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
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	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Deficient	<input type="checkbox"/> OK <input type="checkbox"/> Deficient	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> OK <input type="checkbox"/> Deficient	<input type="checkbox"/> OK <input type="checkbox"/> Deficient	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> OK <input type="checkbox"/> Damaged	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	

Product Name: Low-Flow System

Date: 2020-01-21 12:12:09

Project Information:

Operator Name Chris Parker
Company Name Atlantic Coast Consulting
Project Name Plant Yates
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 573204
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladders Pump
Tubing Type Poly
Tubing Diameter .25 in
Tubing Length 43 ft

Pump placement from TOC 38 ft

Well Information:

Well ID GWC-5R
Well diameter 2 in
Well Total Depth 42.82 ft
Screen Length 10 ft
Depth to Water 30.45 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.9000674 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 9 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	11:48:39	3311.99	15.48	4.99	1819.87	6.50	31.20	7.87	187.78
Last 5	11:53:39	3611.98	15.33	4.99	1812.54	6.40	31.20	7.81	184.88
Last 5	11:58:39	3911.96	14.66	5.00	1809.34	5.60	31.20	7.80	183.36
Last 5	12:03:39	4211.96	14.38	5.00	1807.44	2.80	31.20	7.82	178.34
Last 5	12:08:40	4512.96	14.57	4.99	1796.99	2.40	31.20	7.83	177.61
Variance 0			-0.67	0.01	-3.20			-0.01	-1.51
Variance 1			-0.28	0.00	-1.90			0.02	-5.03
Variance 2			0.19	-0.01	-10.45			0.01	-0.72

Notes

Sample: 12:15. Cloudy 30s

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-17 11:54:33

Project Information:

Operator Name Hunter Auld
Company Name ACC
Project Name Plant Yates - Gypsum Storage
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 52 ft

Pump placement from TOC 47 ft

Well Information:

Well ID GWA-2
Well diameter 2 in
Well Total Depth 52.13 ft
Screen Length 10 ft
Depth to Water 36.33 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 0.622098 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 15.2 in
Total Volume Pumped 7.15 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	11:24:39	1501.29	16.56	6.16	363.38	3.80	37.30	0.66	105.06
Last 5	11:29:39	1801.03	16.56	6.16	351.55	2.90	37.40	0.60	105.07
Last 5	11:34:39	2101.02	16.66	6.15	342.51	2.40	37.50	0.62	105.13
Last 5	11:39:39	2401.03	16.69	6.15	333.36	2.00	37.60	0.68	105.34
Last 5	11:44:39	2701.02	16.69	6.14	327.15	1.80	37.60	0.70	105.54
Variance 0			0.10	-0.01	-9.04			0.02	0.06
Variance 1			0.03	-0.01	-9.15			0.06	0.21
Variance 2			0.00	-0.01	-6.21			0.02	0.19

Notes

Sampled at 1150 on 3-17-20. Cloudy, 50s.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-17 15:33:06

Project Information:

Operator Name Hunter Auld
Company Name ACC
Project Name Plant Yates - Gypsum Storage
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Peristaltic Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 36 ft

Pump placement from TOC 31 ft

Well Information:

Well ID GWC-1R
Well diameter 2 in
Well Total Depth 36.34 ft
Screen Length 10 ft
Depth to Water 18.39 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.5506832 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 7.3 in
Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	15:11:02	300.07	17.27	5.74	374.74	1.10	19.00	7.75	139.62
Last 5	15:16:02	600.03	17.22	5.75	375.19	0.80	19.00	7.81	140.90
Last 5	15:21:02	900.02	17.27	5.75	374.77	0.60	19.00	7.74	141.65
Last 5	15:26:02	1200.03	17.23	5.74	374.77	0.70	19.00	7.70	142.84
Last 5	15:31:02	1500.03	17.17	5.70	394.26	0.60	19.00	7.69	143.65
Variance 0			0.06	0.00	-0.43			-0.06	0.75
Variance 1			-0.04	-0.00	0.00			-0.04	1.20
Variance 2			-0.06	-0.04	19.49			-0.02	0.80

Notes

Sampled at 1535 on 3-17-20. Cloudy 50s.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-18 14:13:44

Project Information:

Operator Name Hunter Auld
Company Name ACC
Project Name Plant Yates - Gypsum Storage
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type peristaltic Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 43 ft

Pump placement from TOC 38 ft

Well Information:

Well ID GWC-2R
Well diameter 2 in
Well Total Depth 43.8 ft
Screen Length 10 ft
Depth to Water 26.2 ft

Pumping Information:

Final Pumping Rate 110 mL/min
Total System Volume 0.5819272 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.2 in
Total Volume Pumped 1.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	13:52:04	300.06	19.50	5.43	494.00	1.60	26.30	4.28	155.17
Last 5	13:57:04	600.03	18.81	5.40	499.62	1.70	26.30	4.20	156.74
Last 5	14:02:04	900.02	18.81	5.39	500.42	1.60	26.30	4.12	158.00
Last 5	14:07:04	1200.03	19.14	5.38	503.95	1.00	26.30	4.12	158.98
Last 5	14:12:04	1500.03	19.15	5.38	508.34	0.80	26.30	4.13	159.88
Variance 0			0.00	-0.01	0.80			-0.07	1.26
Variance 1			0.33	-0.01	3.53			-0.00	0.97
Variance 2			0.00	-0.01	4.39			0.01	0.90

Notes

Sampled at 1415 on 3-18-20. Sunny, 70s.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-17 14:28:55

Project Information:

Operator Name Hunter Auld
Company Name ACC
Project Name Plant Yates - Gypsum Storage
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 38 ft

Pump placement from TOC 33 ft

Well Information:

Well ID GWC-3R
Well diameter 2 in
Well Total Depth 38.34 ft
Screen Length 10 ft
Depth to Water 26.25 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.5596101 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	14:00:47	900.03	17.83	4.96	330.82	11.10	26.50	7.11	101.02
Last 5	14:05:47	1200.03	17.81	4.99	312.20	9.50	26.50	7.17	102.50
Last 5	14:10:47	1500.03	17.84	5.01	302.01	8.20	26.50	7.19	104.24
Last 5	14:15:47	1800.03	17.93	5.03	297.63	5.90	26.50	7.18	106.44
Last 5	14:20:47	2100.03	17.90	5.03	295.96	4.80	26.50	7.18	108.79
Variance 0			0.03	0.02	-10.19			0.02	1.74
Variance 1			0.09	0.01	-4.38			-0.01	2.20
Variance 2			-0.03	0.01	-1.67			-0.00	2.35

Notes

Sampled at 1425 on 3-17-20. Cloudy50s.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-18 12:44:58

Project Information:

Operator Name Hunter Auld
Company Name ACC
Project Name Plant Yates - Gypsum Storage
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type Peristaltic Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 31 ft

Pump placement from TOC 26 ft

Well Information:

Well ID GWC-4R
Well diameter 2 in
Well Total Depth 31.05 ft
Screen Length 10 ft
Depth to Water 14.11 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.5283661 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4.7 in
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	12:13:30	300.04	17.61	5.61	1377.88	3.80	14.50	1.91	138.93
Last 5	12:18:30	600.03	17.68	5.61	1378.82	3.40	14.50	1.78	140.12
Last 5	12:23:30	900.03	17.72	5.61	1371.90	2.20	14.50	1.68	141.50
Last 5	12:28:30	1200.03	17.81	5.60	1355.94	1.70	14.50	1.60	143.11
Last 5	12:33:30	1500.03	17.99	5.58	1328.57	1.60	14.50	1.48	144.81
Variance 0			0.04	-0.00	-6.93			-0.09	1.38
Variance 1			0.09	-0.01	-15.96			-0.08	1.61
Variance 2			0.18	-0.02	-27.37			-0.13	1.70

Notes

Sampled at 1240 on 3-18-20. Cloudy, 60s. Dup-1 here. Extra rad here.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-18 11:34:13

Project Information:

Operator Name Hunter Auld
Company Name ACC
Project Name Plant Yates - Gypsum Storage
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 42 ft

Pump placement from TOC 37 ft

Well Information:

Well ID GWC-5R
Well diameter 2 in
Well Total Depth 42.82 ft
Screen Length 10 ft
Depth to Water 26.05 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 0.5774637 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5.4 in
Total Volume Pumped 13.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	11:05:43	3600.02	17.56	4.86	1826.59	7.70	26.50	8.13	125.87
Last 5	11:10:43	3900.03	17.50	4.86	1821.86	6.80	26.50	8.17	127.04
Last 5	11:15:43	4200.02	17.50	4.87	1818.17	5.90	26.50	8.14	128.26
Last 5	11:20:43	4500.03	17.54	4.87	1814.62	5.30	26.50	8.14	129.31
Last 5	11:25:43	4800.02	17.54	4.88	1812.21	4.60	26.50	8.16	130.41
Variance 0			-0.00	0.01	-3.69			-0.04	1.23
Variance 1			0.04	0.01	-3.55			0.00	1.05
Variance 2			-0.00	0.01	-2.41			0.02	1.10

Notes

Sampled at 1130 on 3-18-20. Cloudy, 50s.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-17 13:04:54

Project Information:

Operator Name Hunter Auld
Company Name ACC
Project Name Plant Yates - Gypsum Storage
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 51 ft

Pump placement from TOC 46 ft

Well Information:

Well ID GWC-6R
Well diameter 2 in
Well Total Depth 51.87 ft
Screen Length 10 ft
Depth to Water 33.79 ft

Pumping Information:

Final Pumping Rate 160 mL/min
Total System Volume 0.6176346 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 6.1 in
Total Volume Pumped 4.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	12:37:03	300.05	16.02	6.03	863.78	1.20	34.00	5.75	91.67
Last 5	12:42:03	600.03	16.15	5.98	794.36	1.20	34.10	5.33	91.45
Last 5	12:47:03	900.03	16.18	5.98	775.71	1.30	34.20	5.17	92.26
Last 5	12:52:03	1200.03	16.25	5.97	765.72	1.20	34.20	5.08	93.32
Last 5	12:57:03	1500.03	16.33	5.97	758.47	1.10	--	5.03	94.46
Variance 0			0.02	-0.01	-18.64			-0.16	0.80
Variance 1			0.07	-0.01	-9.99			-0.10	1.07
Variance 2			0.09	-0.00	-7.25			-0.05	1.13

Notes

Sampled at 1300 on 3-17-20. Cloudy, 60s.

Grab Samples

Well Inspection Form - Well Inspection Criteria

Date: 3-6-20

Staff: H. Auld

1 - Location/Identification

- a Is the well visible and accessible?
- b Is the well properly identified with the correct well ID?
- c 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 Outer Casing

- a Is the protective casing free from apparent damage?
- 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 filled with pea gravel or sand?
- e Is the well locked, and is the lock in good working condition?

3 - Surface Pad

- a Is the well pad in good condition? (Not cracked or broken)
- b Does the well pad provide adequate surface seal and stability to the well?
- c Is the well pad in complete contact with the protective casing?
- d Is the well pad in complete contact with the ground surface? (Not undermined by erosion, animal burrows, and does not move when stepped on)
- e Is the pad surface clean? (Not covered by soil or debris)

4 - Internal Well Casing

- a Does the well cap prevent entry of foreign material into the well?
- b Is the casing free of kinks or bends, or any obstruction from foreign objects ?
- c Does the PVC casing 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 - Based on your professional judgment, is the well construction / location appropriate to:

- a Achieve the objectives of the facility Ground Water Monitoring Program?
- b Comply with the applicable regulatory requirements?

Well Inspection Form - Well Condition Log

Date: 3-16-20

Initials: HA

Well ID	Good Condition All Criteria Met	Deficiencies	Corrective Action Taken	Corrective Action Still Needed
GWA-2	✓			
GWC-1R	✓			
GWC-2R	✓			
GWC-3R	✓			
GWC-4R		✓		✓
GWC-5R		✓		✓
GWC-6R		✓	✓	✓

Check all appropriate boxes above. On the following page, provide details for any deficiencies and corrective actions taken. If any repairs could not be made, list them in the corrective actions still needed table.

Well Inspection Form - Corrective Actions & Summary

Well ID

6WC-4R	Deficiency Noted: <i>labeled 6WC-R4</i>
	Action Taken: <i>NA</i>
6WC-5R	Deficiency Noted:
	Action Taken:
	Deficiency Noted:
	Action Taken:
	Deficiency Noted:
	Action Taken:
	Deficiency Noted:
	Action Taken:
	Deficiency Noted:
	Action Taken:
	Deficiency Noted:
	Action Taken:
	Deficiency Noted:
	Action Taken:
	Deficiency Noted:
	Action Taken:
	Deficiency Noted:
	Action Taken:

Well ID

Corrective Action Still Needed

6WC-4R	Deficiency Noted: <i>labeled 6WC-R4 - Needs new label</i>
6WC-5R	Deficiency Noted: <i>Pad under dirt/veg - Needs dug up/cleared</i>
6WC-6R	Deficiency Noted: <i>sign Post down - stood up - needs fix or relabeled</i>
	Deficiency Noted:
	Deficiency Noted:

Summary

Initials:

All monitoring wells are in good condition and any needed repairs have been made

Initials: *HA*

Further corrective action is still needed - see list above

Staff: *H. Auld*

Signature: *H. Auld*
C. Rowe

Date: *3-6-20*

Low-Flow Test Report:

Test Date / Time: 5/6/2020 10:13:33 AM

Project: Plant Yates - Gypsum

Operator Name: A. Schnittker

Location Name: GWA-2 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 42.1 ft Total Depth: 52.13 ft Initial Depth to Water: 35.17 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 47 ft Estimated Total Volume Pumped: 3.9 liter Flow Cell Volume: 90 ml Final Flow Rate: 130 ml/min Final Draw Down: 4 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sample time- 10:50

Weather: Sunny 50s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
5/6/2020 10:13 AM	00:00	6.26 pH	18.26 °C	346.53 µS/cm	3.52 mg/L	2.00 NTU	87.6 mV	35.17 ft	130.00 ml/min
5/6/2020 10:18 AM	05:00	6.24 pH	18.39 °C	346.01 µS/cm	0.75 mg/L	1.50 NTU	87.3 mV	35.50 ft	130.00 ml/min
5/6/2020 10:23 AM	10:00	6.24 pH	18.39 °C	344.46 µS/cm	0.59 mg/L	1.20 NTU	87.2 mV	35.50 ft	130.00 ml/min
5/6/2020 10:28 AM	15:00	6.23 pH	18.38 °C	343.04 µS/cm	0.53 mg/L	1.10 NTU	87.4 mV	35.50 ft	130.00 ml/min
5/6/2020 10:33 AM	20:00	6.24 pH	18.38 °C	342.29 µS/cm	0.52 mg/L	1.00 NTU	87.0 mV	35.50 ft	130.00 ml/min
5/6/2020 10:38 AM	25:00	6.23 pH	18.36 °C	340.90 µS/cm	0.44 mg/L	1.00 NTU	86.8 mV	35.50 ft	130.00 ml/min
5/6/2020 10:43 AM	30:00	6.24 pH	18.46 °C	339.75 µS/cm	0.42 mg/L	1.00 NTU	86.1 mV	35.50 ft	130.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 5/6/2020 1:37:41 PM

Project: Plant Yates - Gypsum

Operator Name: A. Schnittker

<p>Location Name: GWC-1R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 26.3 ft Total Depth: 36.34 ft Initial Depth to Water: 18.53 ft</p>	<p>Pump Type: peri Tubing Type: Poly Pump Intake From TOC: 46 ft Estimated Total Volume Pumped: 6 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 8 ft</p>	<p>Instrument Used: Aqua TROLL 400 Serial Number: 714302</p>
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Test Notes:

Sample time- 14:20

Weather- Sunny 60s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
5/6/2020 1:37 PM	00:00	5.83 pH	21.01 °C	358.46 µS/cm	7.21 mg/L	5.10 NTU	69.7 mV	18.53 ft	150.00 ml/min
5/6/2020 1:42 PM	05:00	5.61 pH	19.99 °C	467.37 µS/cm	6.80 mg/L	4.70 NTU	70.9 mV	18.53 ft	150.00 ml/min
5/6/2020 1:47 PM	10:00	5.60 pH	19.52 °C	494.94 µS/cm	6.81 mg/L	4.60 NTU	75.8 mV	18.53 ft	150.00 ml/min
5/6/2020 1:52 PM	15:00	5.63 pH	19.32 °C	525.24 µS/cm	6.93 mg/L	4.90 NTU	78.7 mV	18.53 ft	150.00 ml/min
5/6/2020 1:57 PM	20:00	5.59 pH	19.62 °C	553.51 µS/cm	6.80 mg/L	5.00 NTU	80.3 mV	18.53 ft	150.00 ml/min
5/6/2020 2:02 PM	25:00	5.57 pH	20.12 °C	582.81 µS/cm	6.68 mg/L	5.40 NTU	81.6 mV	18.53 ft	150.00 ml/min
5/6/2020 2:07 PM	30:00	5.58 pH	20.26 °C	558.14 µS/cm	6.56 mg/L	4.70 NTU	83.9 mV	18.53 ft	150.00 ml/min
5/6/2020 2:12 PM	35:00	5.61 pH	19.84 °C	544.82 µS/cm	6.65 mg/L	4.10 NTU	86.0 mV	18.53 ft	150.00 ml/min
5/6/2020 2:17 PM	40:00	5.55 pH	20.08 °C	558.91 µS/cm	6.80 mg/L	3.60 NTU	87.3 mV	18.53 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 5/7/2020 2:45:03 PM

Project: Plant Yates - Gypsum

Operator Name: A. Schnittker

Location Name: GWC-2R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 33.8 ft Total Depth: 43.8 ft Initial Depth to Water: 25.54 ft	Pump Type: peri Tubing Type: Poly Pump Intake From TOC: 38 ft Estimated Total Volume Pumped: 7.6 liter Flow Cell Volume: 90 ml Final Flow Rate: 110 ml/min Final Draw Down: 4 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sample time 1600

Weather: Sunny 60s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
5/7/2020 2:45 PM	00:00	5.50 pH	20.83 °C	475.34 µS/cm	1.02 mg/L	10.80 NTU	140.6 mV	25.54 ft	110.00 ml/min
5/7/2020 2:50 PM	05:00	5.42 pH	19.63 °C	464.83 µS/cm	0.98 mg/L	7.20 NTU	137.3 mV	25.90 ft	110.00 ml/min
5/7/2020 2:54 PM	09:10	5.59 pH	19.59 °C	438.48 µS/cm	1.74 mg/L	6.80 NTU	137.0 mV	25.90 ft	110.00 ml/min
5/7/2020 3:04 PM	19:40	5.55 pH	19.14 °C	488.77 µS/cm	1.40 mg/L	4.10 NTU	137.1 mV	25.90 ft	110.00 ml/min
5/7/2020 3:09 PM	24:40	5.59 pH	19.14 °C	482.93 µS/cm	1.52 mg/L	3.80 NTU	143.3 mV	25.90 ft	110.00 ml/min
5/7/2020 3:14 PM	29:40	5.61 pH	18.74 °C	491.53 µS/cm	1.59 mg/L	2.80 NTU	133.6 mV	25.90 ft	110.00 ml/min
5/7/2020 3:19 PM	34:40	5.57 pH	18.45 °C	501.51 µS/cm	1.71 mg/L	2.30 NTU	132.0 mV	25.90 ft	110.00 ml/min
5/7/2020 3:24 PM	39:40	5.40 pH	18.38 °C	503.15 µS/cm	1.86 mg/L	1.80 NTU	130.4 mV	25.90 ft	110.00 ml/min
5/7/2020 3:29 PM	44:40	5.39 pH	18.25 °C	503.96 µS/cm	1.92 mg/L	1.00 NTU	129.0 mV	25.90 ft	110.00 ml/min
5/7/2020 3:34 PM	49:40	5.57 pH	18.25 °C	500.97 µS/cm	1.95 mg/L	1.00 NTU	127.5 mV	25.90 ft	110.00 ml/min
5/7/2020 3:39 PM	54:40	5.60 pH	18.22 °C	501.46 µS/cm	2.04 mg/L	1.20 NTU	126.3 mV	25.90 ft	110.00 ml/min
5/7/2020 3:44 PM	59:40	5.47 pH	18.38 °C	504.81 µS/cm	2.06 mg/L	1.10 NTU	131.4 mV	25.90 ft	110.00 ml/min
5/7/2020 3:49 PM	01:04:40	5.49 pH	18.34 °C	508.12 µS/cm	2.10 mg/L	1.10 NTU	125.1 mV	25.90 ft	110.00 ml/min
5/7/2020 3:54 PM	01:09:40	5.43 pH	18.34 °C	507.06 µS/cm	2.16 mg/L	1.10 NTU	124.3 mV	25.90 ft	110.00 ml/min

Samples

Sample ID:	Description:
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Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 5/7/2020 11:24:46 AM

Project: Plant Yates - Gypsum

Operator Name: A. Schnittker

Location Name: GWC-3R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 28.3 ft Total Depth: 38.34 ft Initial Depth to Water: 25.18 ft	Pump Type: peri Tubing Type: Poly Pump Intake From TOC: 33 ft Estimated Total Volume Pumped: 6.7 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 3 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sample time 12:15

Weather: Sunny 60s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
5/7/2020 11:24 AM	00:00	5.98 pH	26.74 °C	303.70 µS/cm	7.40 mg/L	3.10 NTU	137.4 mV	25.18 ft	150.00 ml/min
5/7/2020 11:29 AM	05:00	5.15 pH	19.94 °C	264.70 µS/cm	7.74 mg/L	2.90 NTU	168.4 mV	25.40 ft	150.00 ml/min
5/7/2020 11:34 AM	10:00	4.96 pH	19.54 °C	337.76 µS/cm	7.41 mg/L	2.40 NTU	132.5 mV	25.40 ft	150.00 ml/min
5/7/2020 11:39 AM	15:00	4.95 pH	19.45 °C	346.33 µS/cm	7.35 mg/L	1.70 NTU	129.8 mV	25.40 ft	150.00 ml/min
5/7/2020 11:44 AM	20:00	4.98 pH	19.41 °C	334.65 µS/cm	7.36 mg/L	2.00 NTU	153.2 mV	25.40 ft	150.00 ml/min
5/7/2020 11:49 AM	25:00	4.99 pH	19.41 °C	324.80 µS/cm	7.37 mg/L	2.20 NTU	126.3 mV	25.40 ft	150.00 ml/min
5/7/2020 11:54 AM	30:00	5.01 pH	19.32 °C	311.24 µS/cm	7.39 mg/L	2.10 NTU	124.2 mV	25.40 ft	150.00 ml/min
5/7/2020 11:59 AM	35:00	5.03 pH	19.36 °C	301.15 µS/cm	7.41 mg/L	2.00 NTU	122.6 mV	25.40 ft	150.00 ml/min
5/7/2020 12:04 PM	40:00	5.04 pH	19.41 °C	294.33 µS/cm	7.44 mg/L	2.10 NTU	121.2 mV	25.40 ft	150.00 ml/min
5/7/2020 12:09 PM	45:00	5.05 pH	19.41 °C	289.74 µS/cm	7.43 mg/L	2.30 NTU	120.2 mV	25.40 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 5/7/2020 12:33:19 PM

Project: Plant Yates - Gypsum

Operator Name: A. Schnittker

Location Name: GWC-4R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 21.05 ft Total Depth: 31.05 ft Initial Depth to Water: 13.71 ft	Pump Type: peri Tubing Type: Poly Pump Intake From TOC: 26 ft Estimated Total Volume Pumped: 19 liter Flow Cell Volume: 90 ml Final Flow Rate: 200 ml/min Final Draw Down: 8 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sample time 14:15

Weather: Sunny 60s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
5/7/2020 12:33 PM	00:00	5.62 pH	24.42 °C	752.84 µS/cm	3.36 mg/L	4.50 NTU	148.2 mV	13.71 ft	200.00 ml/min
5/7/2020 12:38 PM	05:00	5.56 pH	19.48 °C	826.96 µS/cm	2.39 mg/L	4.20 NTU	148.5 mV	14.40 ft	200.00 ml/min
5/7/2020 12:43 PM	10:00	5.59 pH	19.16 °C	801.04 µS/cm	2.38 mg/L	3.10 NTU	156.8 mV	14.40 ft	200.00 ml/min
5/7/2020 12:48 PM	15:00	5.64 pH	19.10 °C	729.23 µS/cm	2.27 mg/L	2.60 NTU	162.1 mV	14.40 ft	200.00 ml/min
5/7/2020 12:53 PM	20:00	5.59 pH	19.16 °C	622.36 µS/cm	2.44 mg/L	2.50 NTU	161.6 mV	14.40 ft	200.00 ml/min
5/7/2020 12:58 PM	25:00	5.60 pH	19.23 °C	615.01 µS/cm	2.66 mg/L	2.40 NTU	213.2 mV	14.40 ft	200.00 ml/min
5/7/2020 1:03 PM	30:00	5.54 pH	19.32 °C	526.69 µS/cm	2.93 mg/L	2.30 NTU	160.6 mV	14.40 ft	200.00 ml/min
5/7/2020 1:08 PM	35:00	5.47 pH	19.23 °C	513.99 µS/cm	3.11 mg/L	2.20 NTU	208.3 mV	14.40 ft	200.00 ml/min
5/7/2020 1:13 PM	40:00	5.52 pH	19.25 °C	455.52 µS/cm	3.39 mg/L	1.70 NTU	154.0 mV	14.40 ft	200.00 ml/min
5/7/2020 1:18 PM	45:00	5.62 pH	19.36 °C	413.95 µS/cm	3.56 mg/L	1.40 NTU	191.9 mV	14.40 ft	200.00 ml/min
5/7/2020 1:23 PM	50:00	5.45 pH	19.28 °C	404.31 µS/cm	3.68 mg/L	1.10 NTU	148.9 mV	14.40 ft	200.00 ml/min
5/7/2020 1:28 PM	55:00	5.59 pH	19.27 °C	413.16 µS/cm	3.69 mg/L	1.00 NTU	182.3 mV	14.40 ft	200.00 ml/min
5/7/2020 1:33 PM	01:00:00	5.48 pH	19.46 °C	432.91 µS/cm	3.78 mg/L	1.20 NTU	180.7 mV	14.40 ft	200.00 ml/min
5/7/2020 1:38 PM	01:05:00	5.57 pH	19.32 °C	395.76 µS/cm	3.84 mg/L	1.30 NTU	177.8 mV	14.40 ft	200.00 ml/min
5/7/2020 1:43 PM	01:10:00	5.53 pH	19.46 °C	414.78 µS/cm	3.82 mg/L	1.10 NTU	176.0 mV	14.40 ft	200.00 ml/min

5/7/2020 1:48 PM	01:15:00	5.45 pH	19.49 °C	380.00 µS/cm	3.87 mg/L	1.00 NTU	143.3 mV	14.40 ft	200.00 ml/min
5/7/2020 1:53 PM	01:20:00	5.55 pH	19.52 °C	391.18 µS/cm	3.83 mg/L	0.90 NTU	141.1 mV	14.40 ft	200.00 ml/min
5/7/2020 1:58 PM	01:25:00	5.58 pH	19.69 °C	375.87 µS/cm	3.88 mg/L	0.50 NTU	139.4 mV	14.40 ft	200.00 ml/min
5/7/2020 2:03 PM	01:30:00	5.53 pH	19.84 °C	369.68 µS/cm	3.90 mg/L	0.60 NTU	138.1 mV	14.40 ft	200.00 ml/min
5/7/2020 2:08 PM	01:35:00	5.52 pH	19.68 °C	371.28 µS/cm	3.87 mg/L	0.60 NTU	160.9 mV	14.40 ft	200.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 5/7/2020 9:23:35 AM

Project: Plant Yates - Gypsum

Operator Name: A. Schnittker

Location Name: GWC-5R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 32.8 ft Total Depth: 42.82 ft Initial Depth to Water: 25.5 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 37 ft Estimated Total Volume Pumped: 9 liter Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 8 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sample time 10:45

Weather sunny 60s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
5/7/2020 9:23 AM	00:00	5.11 pH	15.93 °C	1,614.0 µS/cm	9.03 mg/L	19.70 NTU	204.3 mV	25.50 ft	120.00 ml/min
5/7/2020 9:28 AM	05:00	5.09 pH	17.49 °C	1,525.4 µS/cm	8.41 mg/L	13.90 NTU	142.6 mV	26.20 ft	120.00 ml/min
5/7/2020 9:33 AM	10:00	5.12 pH	17.70 °C	1,504.5 µS/cm	8.40 mg/L	12.40 NTU	131.3 mV	26.20 ft	120.00 ml/min
5/7/2020 9:38 AM	15:00	5.14 pH	17.70 °C	1,489.3 µS/cm	8.42 mg/L	11.20 NTU	154.7 mV	26.20 ft	120.00 ml/min
5/7/2020 9:43 AM	20:00	5.15 pH	17.77 °C	1,477.8 µS/cm	8.39 mg/L	8.80 NTU	126.8 mV	26.20 ft	120.00 ml/min
5/7/2020 9:48 AM	25:00	5.16 pH	17.80 °C	1,466.6 µS/cm	8.37 mg/L	12.30 NTU	125.3 mV	26.20 ft	120.00 ml/min
5/7/2020 9:53 AM	30:00	5.17 pH	17.89 °C	1,459.9 µS/cm	8.38 mg/L	11.50 NTU	146.8 mV	26.20 ft	120.00 ml/min
5/7/2020 9:58 AM	35:00	5.18 pH	17.88 °C	1,446.0 µS/cm	8.30 mg/L	7.00 NTU	145.9 mV	26.20 ft	120.00 ml/min
5/7/2020 10:03 AM	40:00	5.19 pH	17.81 °C	1,441.2 µS/cm	8.25 mg/L	8.40 NTU	145.2 mV	26.20 ft	120.00 ml/min
5/7/2020 10:08 AM	45:00	5.19 pH	17.89 °C	1,439.9 µS/cm	8.26 mg/L	8.40 NTU	144.7 mV	26.20 ft	120.00 ml/min
5/7/2020 10:13 AM	50:00	5.19 pH	18.03 °C	1,432.4 µS/cm	8.21 mg/L	8.30 NTU	144.0 mV	26.20 ft	120.00 ml/min
5/7/2020 10:18 AM	55:00	5.19 pH	18.07 °C	1,427.9 µS/cm	8.26 mg/L	6.90 NTU	143.2 mV	26.20 ft	120.00 ml/min
5/7/2020 10:23 AM	01:00:00	5.20 pH	18.18 °C	1,423.0 µS/cm	8.23 mg/L	6.60 NTU	142.7 mV	26.20 ft	120.00 ml/min
5/7/2020 10:28 AM	01:05:00	5.20 pH	18.25 °C	1,418.5 µS/cm	8.22 mg/L	6.20 NTU	123.6 mV	26.20 ft	120.00 ml/min

5/7/2020 10:33 AM	01:10:00	5.20 pH	18.30 °C	1,416.0 μS/cm	8.40 mg/L	5.40 NTU	140.6 mV	26.20 ft	120.00 ml/min
5/7/2020 10:38 AM	01:15:00	5.20 pH	18.39 °C	1,413.8 μS/cm	8.47 mg/L	4.90 NTU	140.3 mV	26.20 ft	120.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 5/6/2020 12:46:38 PM

Project: Plant Yates - Gypsum

Operator Name: A. Schnittker

Location Name: GWC-6R Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 41.8 ft Total Depth: 51.87 ft Initial Depth to Water: 160 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 46 ft Estimated Total Volume Pumped: 4.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 4 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sample time- 1325

Weather- sunny 60s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 0.5	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
5/6/2020 12:46 PM	00:00	3.93 pH	26.79 °C	1.69 µS/cm	7.77 mg/L	2.50 NTU	230.4 mV	32.34 ft	130.00 ml/min
5/6/2020 12:51 PM	05:00	6.34 pH	18.65 °C	691.71 µS/cm	6.71 mg/L	2.30 NTU	58.7 mV	32.70 ft	130.00 ml/min
5/6/2020 12:56 PM	10:00	6.06 pH	17.63 °C	961.33 µS/cm	5.67 mg/L	1.90 NTU	61.4 mV	32.70 ft	130.00 ml/min
5/6/2020 1:01 PM	15:00	6.01 pH	17.54 °C	1,036.4 µS/cm	5.18 mg/L	1.70 NTU	63.5 mV	32.70 ft	130.00 ml/min
5/6/2020 1:06 PM	20:00	5.99 pH	17.54 °C	1,053.1 µS/cm	5.03 mg/L	1.40 NTU	64.4 mV	32.70 ft	130.00 ml/min
5/6/2020 1:11 PM	25:00	5.99 pH	17.50 °C	1,053.1 µS/cm	4.95 mg/L	1.30 NTU	66.3 mV	32.70 ft	130.00 ml/min
5/6/2020 1:16 PM	30:04	5.99 pH	17.54 °C	1,051.1 µS/cm	4.91 mg/L	1.20 NTU	67.1 mV	32.70 ft	130.00 ml/min

Samples

Sample ID:	Description:
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Appendix C

Historical Groundwater Analytical Data



Analyte	Units	GWA-2	GWA-2	GWA-2	GWA-2	GWA-2	GWA-2	GWA-2	GWA-2	GWA-2
		GWA-2 (050107)	GWA-2 (091107)	GWA-2 (032008)	GWA-2 (082708)	GWA-2 (030309)	GWA-2 (111809)	GWA-2 (030310)	GWA-2 (090810)	GWA-2 (031011)
		5/1/2007	9/11/2007	3/20/2008	8/27/2008	3/3/2009	11/18/2009	3/3/2010	9/8/2010	3/10/2011
Appendix I & II Metals (State Permit)										
Nickel	mg/l	0.0061	0.021	< 0.0025	< 0.0025	0.005	0.0052	0.011	0.012	0.0032
Silver	mg/l	< 0.0025	< 0.0013	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025
Vanadium	mg/l	0.0055	0.004	< 0.0025	0.0029	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025
Zinc	mg/l	0.0081	0.0049	0.004	0.0042	0.0058	0.0038	0.0085	0.0065	0.0029
Appendix III										
Boron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoride	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	NA	NA	NA	6.53	6.35	6.47	6.53	NA	5.83
Appendix IV										
Antimony	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Barium	mg/l	0.032	0.017	0.025	0.041	0.053	0.05	0.061	0.071	0.057
Beryllium	mg/l	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
Cadmium	mg/l	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
Chromium	mg/l	0.0029	0.0084	0.0027	0.0026	0.0022	0.0036	< 0.0013	< 0.0013	< 0.0013
Cobalt	mg/l	0.0067	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	0.0027	0.007	< 0.0025
Lead	mg/l	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Lithium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	< 0.000254	< 0.000254	< 0.000145	< 0.000145	< 0.00025	< 0.00025	< 0.000591	< 0.000591	< 0.000299
Molybdenum	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Combined Radium - 226/228	pCi/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/l	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Thallium	mg/l	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001

Analyte	Units	GWA-2	GWA-2	GWA-2	GWA-2	GWA-2	GWA-2	GWA-2	GWA-2	GWA-2
		GWA-2 (090811)	GWA-2 (030512)	GWA-2 (091012)	GWA-2 (020613)	GWA-2 (081213)	GWA-2 (020514)	GWA-2 (080514)	GWA-2 (020415)	GWA-2 (080315)
		9/8/2011	3/5/2012	9/10/2012	2/6/2013	8/12/2013	2/5/2014	8/5/2014	2/4/2015	8/3/2015
Appendix I & II Metals (State Permit)										
Nickel	mg/l	0.0046	0.0053	0.0074	0.0077	0.016	0.019	0.0057	0.0055	0.0055
Silver	mg/l	< 0.0025	< 0.005	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025
Vanadium	mg/l	< 0.0025	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0013 J
Zinc	mg/l	0.004	0.0059	0.0052	0.0038	0.0075	0.018 o	0.0037	0.0057	0.0043
Appendix III										
Boron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoride	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	5.69	6.27	6.23	7.56	6.68	6.32	NA	NA	6.13
Appendix IV										
Antimony	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Barium	mg/l	0.057	0.061	0.055	0.061	0.055	0.063	0.038	0.039	0.031
Beryllium	mg/l	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
Cadmium	mg/l	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
Chromium	mg/l	< 0.0013	< 0.005	< 0.0013	< 0.0013	< 0.0013	0.0059	< 0.0013	< 0.0013	0.0011 J
Cobalt	mg/l	< 0.0025	0.0032	< 0.0013	< 0.0013	0.0045	< 0.0013	0.0027	0.0016	0.002
Lead	mg/l	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Lithium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	< 0.000168	< 0.000123	< 0.0002	< 0.0001	< 0.0002	< 0.0002	< 0.000213	< 0.0001	< 0.0002
Molybdenum	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Combined Radium - 226/228	pCi/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/l	< 0.013	< 0.013	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001	< 0.001	NA

Analyte	Units	GWA-2	GWA-2	GWA-2	GWA-2	GWA-2	GWA-2	GWA-2	GWA-2	GWA-2
		GWA-2 (021616)	GWA-2 (083116)	GWA-2 (112816)	GWA-2 (022217)	GWA-2 (050817)	GWA-2 (071717)	GWA-2 (101617)	GWA-2 (021918)	GWA-2 (080618)
		2/16/2016	8/31/2016	11/28/2016	2/22/2017	5/8/2017	7/17/2017	10/16/2017	2/19/2018	8/6/2018
Appendix I & II Metals (State Permit)										
Nickel	mg/l	0.0039	NA	NA	0.0051 J	NA	NA	NA	< 0.005	0.003 J
Silver	mg/l	< 0.0025	NA	NA	< 0.01	NA	NA	NA	< 0.005	< 0.01
Vanadium	mg/l	< 0.005	NA	NA	< 0.01	< 0.01	< 0.01	NA	< 0.01	< 0.01
Zinc	mg/l	0.0024 J	NA	NA	0.0042 J	0.0025 J	0.0032 J	NA	< 0.01	0.0037 J
Appendix III										
Boron	mg/l	NA	0.0315 J	0.0095 J	< 0.04	0.0084 J	0.0092 J	< 0.04	< 0.04	< 0.2
Calcium	mg/l	NA	9.31	9.47 B	10.4	14.2	14.1	13.6	< 25	11.4 J
Chloride	mg/l	NA	4	4.2	3.7	4.2	3.8	4.2	4.3	3.8
Fluoride	mg/l	NA	0.14 J	0.12 J	0.09 J	0.05 J	0.14 J	0.12 J	0.17	0.087 J
Sulfate	mg/l	NA	29	36	43	60	63	62	64.6	42.1
Total Dissolved Solids	mg/l	NA	209	102	164	145	185	218	173	158
pH	SU	5.64	NA	6.23	6.21	6.12	6.03	6.12	6.13	6.01
Appendix IV										
Antimony	mg/l	< 0.005	< 0.003	0.0014 J	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Arsenic	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Barium	mg/l	0.045	0.0542	0.0529	0.0607	0.065	0.06	0.0542	0.0533	0.044
Beryllium	mg/l	< 0.0013	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015 o
Cadmium	mg/l	< 0.0013	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chromium	mg/l	< 0.0013	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cobalt	mg/l	0.0027	0.0053 J	0.0036 J	0.0049 J	0.0059 J	0.0046 J	0.0034 J	< 0.01	0.003 J
Lead	mg/l	< 0.013	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Lithium	mg/l	NA	< 0.05	< 0.05	< 0.05	0.0014 J	< 0.05	0.0016 J	< 0.05	< 0.25
Mercury	mg/l	0.0000136 J	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0002	< 0.0005
Molybdenum	mg/l	NA	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Combined Radium - 226/228	pCi/l	NA	1.2	< 0.264 U	< 1.06 U	< 0.187 U	1.42	1.17	1.58	< 0.196 U
Selenium	mg/l	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Thallium	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	0.00006 J	0.00006 J	0.00007 J	< 0.001	< 0.001

Analyte	Units	GWA-2	GWA-2	GWA-2	GWA-2	GWA-2	GWA-2	GWC-1R	GWC-1R	GWC-1R
		GWA-2 (022519)	GWA-2 (061219)	GWA-2 (081919)	GWA-2 (100819)	GWA-2 (031720)	GWA-2 (050620)	GWC-1R (090811)	GWC-1R (030512)	GWC-1R (090512)
		2/25/2019	6/12/2019	8/19/2019	10/8/2019	3/17/2020	5/6/2020	9/8/2011	3/5/2012	9/5/2012
Appendix I & II Metals (State Permit)										
Nickel	mg/l	0.0026 J	0.0038 J	NA	0.0051 J	0.0066	NA	0.009	0.0035	0.0027
Silver	mg/l	< 0.01	ND	NA	ND	< 0.00028	NA	< 0.0025	< 0.005	< 0.0025
Vanadium	mg/l	< 0.01	0.0032 J	NA	ND	< 0.00071	NA	< 0.0025	< 0.01	< 0.005
Zinc	mg/l	0.013	ND	NA	0.0078 J	< 0.018	NA	0.0048	0.0038	0.0051
Appendix III										
Boron	mg/l	< 0.04	ND	NA	ND	0.0051 J	NA	NA	NA	NA
Calcium	mg/l	12.7 J	18.9	NA	28.3	24.3	NA	NA	NA	NA
Chloride	mg/l	4.1	4.7	NA	5.1	4.8	NA	NA	NA	NA
Fluoride	mg/l	0.14 J	0.12 J	ND	0.052 J	0.053 J	NA	NA	NA	NA
Sulfate	mg/l	42.1	83.4	NA	128	98.60	NA	NA	NA	NA
Total Dissolved Solids	mg/l	92	226	NA	276	NA	NA	NA	NA	NA
pH	SU	6.51	6.3	6.23	6.28	6.14	6.24	4.49	NA	NA
Appendix IV										
Antimony	mg/l	< 0.003	ND	ND	ND	< 0.00027	NA	< 0.005	< 0.005	< 0.005
Arsenic	mg/l	< 0.005	0.00038 J	0.00095 J	ND	< 0.00035	NA	< 0.005	< 0.005	< 0.005
Barium	mg/l	0.045	0.063	0.065	0.058	0.047	NA	0.086	0.044	0.034
Beryllium	mg/l	< 0.003	ND	ND	ND	< 0.000074	NA	< 0.0013	< 0.0013	< 0.0013
Cadmium	mg/l	< 0.001	ND	ND	ND	< 0.00011	NA	< 0.0013	< 0.0013	< 0.0013
Chromium	mg/l	< 0.01	ND	ND	ND	< 0.00039	NA	< 0.0013	< 0.005	< 0.0013
Cobalt	mg/l	0.001 J	0.003 J	0.0035 J	0.0039 J	0.0030 J	NA	0.015 o	< 0.0025	0.0018
Lead	mg/l	< 0.005	ND	ND	ND	< 0.000046	NA	< 0.013	< 0.013	< 0.013
Lithium	mg/l	NA	NA	0.0019 J	0.0015 J	0.0017 J	NA	NA	NA	NA
Mercury	mg/l	0.000074 J	ND	ND	ND	NA	< 0.00014	< 0.000168	< 0.000123	< 0.0002
Molybdenum	mg/l	NA	NA	ND	NA	NA	NA	NA	NA	NA
Combined Radium - 226/228	pCi/l	NA	NA	1.39	< 1.32 U	1.00 U	NA	NA	NA	NA
Selenium	mg/l	< 0.01	ND	ND	ND	< 0.0013	NA	< 0.013	< 0.013	< 0.005
Thallium	mg/l	< 0.001	ND	0.000055 J	ND	< 0.000052	NA	< 0.001	< 0.001	< 0.001

Analyte	Units	GWC-1R	GWC-1R	GWC-1R	GWC-1R	GWC-1R	GWC-1R	GWC-1R	GWC-1R	GWC-1R
		GWC-1R (020513)	GWC-1R (081313)	GWC-1R (020414)	GWC-1R (080514)	GWC-1R (020215)	GWC-1R (080415)	GWC-1R (021616)	GWC-1R (083116)	GWC-1R (112916)
		2/5/2013	8/13/2013	2/4/2014	8/5/2014	2/2/2015	8/4/2015	2/16/2016	8/31/2016	11/29/2016
Appendix I & II Metals (State Permit)										
Nickel	mg/l	0.0026	< 0.0025	< 0.0025	0.0013 J	0.0023 J	< 0.0025	< 0.0025	NA	NA
Silver	mg/l	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	NA	NA
Vanadium	mg/l	< 0.005	< 0.005	< 0.005	0.0011 J	0.0051	< 0.005	0.00075 J	NA	NA
Zinc	mg/l	< 0.0025	< 0.0025	0.0037	0.0019 J	0.0051	0.0017 J	0.0015 J	NA	NA
Appendix III										
Boron	mg/l	NA	NA	NA	NA	NA	NA	NA	0.0553 J	0.0149 J
Calcium	mg/l	NA	NA	NA	NA	NA	NA	NA	69.4	70.6 B
Chloride	mg/l	NA	NA	NA	NA	NA	NA	NA	7.6	5.8
Fluoride	mg/l	NA	NA	NA	NA	NA	NA	NA	0.05 J	0.04 J
Sulfate	mg/l	NA	NA	NA	NA	NA	NA	NA	410	450
Total Dissolved Solids	mg/l	NA	NA	NA	NA	NA	NA	NA	616	594
pH	SU	NA	NA	NA	NA	NA	NA	NA	NA	5.37
Appendix IV										
Antimony	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.003	< 0.003
Arsenic	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Barium	mg/l	0.03	0.027	0.037	0.048	0.069	0.023	0.044	0.0711	0.0754
Beryllium	mg/l	< 0.0013	< 0.0013	< 0.0013	0.000075 J	0.00023 J	< 0.0013	< 0.0013	0.0001 J	< 0.003
Cadmium	mg/l	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.001	0.00008 J
Chromium	mg/l	< 0.0013	< 0.0013	< 0.0013	< 0.0013	0.0028	< 0.0013	< 0.0013	0.0012 J	0.0009 J
Cobalt	mg/l	0.0013	< 0.0013	< 0.0013	< 0.0013	0.0015	< 0.0013	< 0.0013	0.0006 J	< 0.01
Lead	mg/l	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.005	< 0.005
Lithium	mg/l	NA	NA	NA	NA	NA	NA	NA	0.0024 J	< 0.05
Mercury	mg/l	< 0.0001	< 0.0002	< 0.0002	< 0.000213	< 0.0001	< 0.0002	< 0.0002	< 0.0005	< 0.0005
Molybdenum	mg/l	NA	NA	NA	NA	NA	NA	NA	< 0.01	< 0.01
Combined Radium - 226/228	pCi/l	NA	NA	NA	NA	NA	NA	NA	NA	< 0.551 U
Selenium	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0039 J	0.0033 J
Thallium	mg/l	< 0.001	< 0.001	< 0.002	< 0.001	< 0.001	NA	< 0.001	< 0.001	< 0.001

Analyte	Units	GWC-1R	GWC-1R	GWC-1R	GWC-1R	GWC-1R	GWC-1R	GWC-1R	GWC-1R	GWC-1R
		GWC-1R (022317)	GWC-1R (050917)	GWC-1R (071817)	GWC-1R (101717)	GWC-1R (022118)	GWC-1R (080718)	GWC-1R (022619)	GWC-1R (061319)	GWC-1R (082019)
		2/23/2017	5/9/2017	7/18/2017	10/17/2017	2/21/2018	8/7/2018	2/26/2019	6/13/2019	8/20/2019
Appendix I & II Metals (State Permit)										
Nickel	mg/l	0.0026 J	NA	NA	NA	0.001 J	< 0.01	< 0.01	0.00072 J	NA
Silver	mg/l	< 0.01	NA	NA	NA	< 0.005	< 0.01	< 0.01	ND	NA
Vanadium	mg/l	< 0.01	< 0.01	< 0.01	NA	< 0.01	< 0.01	< 0.01	ND	NA
Zinc	mg/l	0.0024 J	0.0016 J	0.0015 J	NA	< 0.01	0.0044 J	0.0022 J	ND	NA
Appendix III										
Boron	mg/l	0.0082 J	0.0097 J	0.0123 J	0.0513	0.0378 J	0.043	0.062	0.057	NA
Calcium	mg/l	62.4	47.4	33.2	38.7	34.3	26.2	24.7 J	33.8	NA
Chloride	mg/l	6.2	16	18	31	27	35.4	20	16.4	NA
Fluoride	mg/l	0.06 J	0.06 J	< 0.3	< 0.3	< 0.1	< 0.3	< 0.3	ND	ND
Sulfate	mg/l	390	280	200	180	146	100	118	163	NA
Total Dissolved Solids	mg/l	581	410	322	381	285	242	69	301	NA
pH	SU	5.5	5.41	5.5	5.42	5.39	5.14	5.52	5.55	5.33
Appendix IV										
Antimony	mg/l	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	ND	ND
Arsenic	mg/l	< 0.005	0.0005 J	< 0.005	0.0009 J	< 0.005	< 0.005	< 0.005	ND	0.00044 J
Barium	mg/l	0.0646	0.0463	0.039	0.0349	0.0322	0.025	0.028	0.033	0.07
Beryllium	mg/l	< 0.003	0.00008 J	< 0.003	0.0001 J	< 0.003	0.000074 J	0.000075 J	ND	0.0001 J
Cadmium	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	ND	ND
Chromium	mg/l	0.001 J	0.0011 J	0.0008 J	0.001 J	< 0.01	< 0.01	< 0.01	0.0009 J	0.0011 J
Cobalt	mg/l	0.0009 J	0.0008 J	0.0032 J	0.0007 J	< 0.01	< 0.01	< 0.01	0.00033 J	0.00079 J
Lead	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	ND	ND
Lithium	mg/l	< 0.05	0.002 J	< 0.05	0.0016 J	0.0014 J	0.001 J	NA	NA	0.0012 J
Mercury	mg/l	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0002	< 0.0005	0.000059 J	ND	ND
Molybdenum	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	NA	NA	ND
Combined Radium - 226/228	pCi/l	< 0.504 U	< 0.434 U	1.37	< 0.937 U	< 0.817 U	< 0.578 U	NA	NA	< 1.25 U
Selenium	mg/l	0.0097 J	0.0066 J	0.0021 J	0.003 J	< 0.01	< 0.01	0.0014 J	ND	0.0022 J
Thallium	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	ND	ND

Analyte	Units	GWC-1R	GWC-1R	GWC-1R	GWC-2R	GWC-2R	GWC-2R	GWC-2R	GWC-2R	GWC-2R
		GWC-1R (100919)	GWC-1R (031720)	GWC-1R (050620)	GWC-2R (112210)	GWC-2R (010411)	GWC-2R (021711)	GWC-2R (031111)	GWC-2R (032811)	GWC-2R (090711)
		10/9/2019	3/17/2020	5/6/2020	11/22/2010	1/4/2011	2/17/2011	3/11/2011	3/28/2011	9/7/2011
Appendix I & II Metals (State Permit)										
Nickel	mg/l	0.0015 J	0.00087 J	NA	0.0096	0.0084	0.0088	0.0058	0.0058	0.005
Silver	mg/l	ND	< 0.00028	NA	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025
Vanadium	mg/l	ND	< 0.00071	NA	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025
Zinc	mg/l	0.0078 J	< 0.018	NA	0.0047	0.0038	0.0074	0.0038	< 0.0025	0.0059
Appendix III										
Boron	mg/l	0.029 J	0.092 J	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/l	59.1	36.7	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	6.9	15.5	NA	NA	NA	NA	NA	NA	NA
Fluoride	mg/l	ND	< 0.050	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	318	145	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/l	526	306	NA	NA	NA	NA	NA	NA	NA
pH	SU	5.37	5.70	6.80	NA	NA	NA	5.52	NA	4.35
Appendix IV										
Antimony	mg/l	ND	< 0.00027	NA	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/l	ND	< 0.00035	NA	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Barium	mg/l	0.054	0.031	NA	0.12	0.1	0.1	0.05	0.087	0.065
Beryllium	mg/l	0.00013 J	0.000076 J	NA	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
Cadmium	mg/l	ND	< 0.00011	NA	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
Chromium	mg/l	0.0012 J	0.0010 J	NA	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
Cobalt	mg/l	0.00064 J	0.00054 J	NA	0.038	0.049	0.044	0.038	0.029	0.031
Lead	mg/l	0.000052 J	< 0.000046	NA	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Lithium	mg/l	0.0013 J	0.00094 J	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	ND	NA	< 0.00014	< 0.000299	< 0.000299	< 0.000299	< 0.000299	< 0.000299	< 0.000168
Molybdenum	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Combined Radium - 226/228	pCi/l	< 0.482 U	1.40	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/l	0.0023 J	0.0017 J	NA	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Thallium	mg/l	ND	< 0.000052	NA	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Analyte	Units	GWC-2R	GWC-2R	GWC-2R	GWC-2R	GWC-2R	GWC-2R	GWC-2R	GWC-2R	GWC-2R
		GWC-2R (030612)	GWC-2R (091112)	GWC-2R (020613)	GWC-2R (081313)	GWC-2R (020414)	GWC-2R (080514)	GWC-2R (020215)	GWC-2R (080415)	GWC-2R (021716)
		3/6/2012	9/11/2012	2/6/2013	8/13/2013	2/4/2014	8/5/2014	2/2/2015	8/4/2015	2/17/2016
Appendix I & II Metals (State Permit)										
Nickel	mg/l	< 0.0025	< 0.0025	< 0.0025	0.003	0.0026	0.0015 J	< 0.0025	< 0.0025	< 0.0025
Silver	mg/l	< 0.005	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025
Vanadium	mg/l	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Zinc	mg/l	0.0032	0.0029	0.0036	0.0066	0.011	0.0032	0.0031	0.0017 J	0.0034
Appendix III										
Boron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoride	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	6.37	5.69	6.8	5.51	5.74	NA	NA	NA	5.59
Appendix IV										
Antimony	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Barium	mg/l	0.049	0.045	0.05	0.13	0.08	0.068	0.066	0.053	0.059
Beryllium	mg/l	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
Cadmium	mg/l	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
Chromium	mg/l	< 0.005	< 0.0013	< 0.0013	0.0017	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
Cobalt	mg/l	0.021	0.017	0.025	0.023	0.019	0.023	0.022	0.021	0.024
Lead	mg/l	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Lithium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	< 0.000123	< 0.0002	< 0.0001	< 0.0002	< 0.0002	< 0.000213	< 0.0001	< 0.0002	< 0.0002
Molybdenum	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Combined Radium - 226/228	pCi/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/l	< 0.013	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	NA	< 0.001	NA	0.00007 J

Analyte	Units	GWC-2R	GWC-2R	GWC-2R	GWC-2R	GWC-2R	GWC-2R	GWC-2R	GWC-2R	GWC-2R
		GWC-2R (083116)	GWC-2R (112816)	GWC-2R (022217)	GWC-2R (051017)	GWC-2R (071817)	GWC-2R (101717)	GWC-2R (022018)	GWC-2R (080818)	GWC-2R (022619)
		8/31/2016	11/28/2016	2/22/2017	5/10/2017	7/18/2017	10/17/2017	2/20/2018	8/8/2018	2/26/2019
Appendix I & II Metals (State Permit)										
Nickel	mg/l	NA	NA	0.0009 J	NA	NA	NA	< 0.005	< 0.01	0.0068 J
Silver	mg/l	NA	NA	< 0.01	NA	NA	NA	< 0.005	< 0.01	< 0.01
Vanadium	mg/l	NA	NA	< 0.01	< 0.01	< 0.01	NA	< 0.01	< 0.01	< 0.01
Zinc	mg/l	NA	NA	0.0024 J	0.0022 J	0.0017 J	NA	< 0.01	0.0021 J	0.003 J
Appendix III										
Boron	mg/l	0.0305 J	0.0206 J	0.0192 J	0.0179 J	0.0169 J	0.0168 J	< 0.04	0.017 J	0.017 J
Calcium	mg/l	19.9	17.7 B	16.2	11.8	8.69	9.77	< 25	13.4 J	20.9 J
Chloride	mg/l	6.3	6.7	5.7	7.1	6	6.1	5.8	4.7	5.7
Fluoride	mg/l	0.08 J	0.03 J	0.04 J	0.05 J	< 0.3	< 0.3	< 0.1	< 0.3	< 0.3
Sulfate	mg/l	140	120	100	80	57	59	55.9	81.1	129
Total Dissolved Solids	mg/l	257	177	240	149	122	214	131	166	293
pH	SU	NA	5.47	5.48	5.6	5.49	5.45	5.52	5.15	5.4
Appendix IV										
Antimony	mg/l	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Arsenic	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Barium	mg/l	0.0601	0.0562	0.0481	0.0563	0.049	0.047	0.0467	0.049	0.056
Beryllium	mg/l	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.00007 J	0.000053 J
Cadmium	mg/l	0.0001 J	0.0001 J	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chromium	mg/l	< 0.01	< 0.01	< 0.01	0.0008 J	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cobalt	mg/l	0.0239	0.0189	0.0184	0.0213	0.0261	0.0182	< 0.01	0.014	0.029
Lead	mg/l	< 0.005	< 0.005	< 0.005	0.0001 J	0.00007 J	< 0.005	< 0.005	< 0.005	< 0.005
Lithium	mg/l	< 0.05	< 0.05	0.0036 J	0.0035 J	0.0035 J	0.0035 J	< 0.05	0.0031 J	NA
Mercury	mg/l	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0002	< 0.0005	0.000071 J
Molybdenum	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	NA
Combined Radium - 226/228	pCi/l	NA	< 0.387 U	< 0.739 U	< 0.458 U	< 0.708 U	< 0.402 U	1.64	2.01	NA
Selenium	mg/l	0.0029 J	0.0019 J	0.0015 J	0.0016 J	0.0024 J	0.0028 J	< 0.01	0.0025 J	0.003 J
Thallium	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Analyte	Units	GWC-2R	GWC-2R	GWC-2R	GWC-2R	GWC-2R	GWC-3R	GWC-3R	GWC-3R	GWC-3R
		GWC-2R (061219)	GWC-2R (082019)	GWC-2R (100919)	GWC-2R (031820)	GWC-2R (050720)	GWC-3R (090711)	GWC-3R (030512)	GWC-3R (090512)	GWC-3R (020613)
		6/12/2019	8/20/2019	10/9/2019	3/18/2020	5/7/2020	9/7/2011	3/5/2012	9/5/2012	2/6/2013
Appendix I & II Metals (State Permit)										
Nickel	mg/l	0.00043 J	NA	0.00058 J	0.00063 J	NA	0.0054	< 0.0025	< 0.0025	< 0.0025
Silver	mg/l	ND	NA	ND	< 0.00028	NA	< 0.0025	< 0.005	< 0.0025	< 0.0025
Vanadium	mg/l	0.00079 J	NA	ND	< 0.00071	NA	< 0.0025	< 0.01	< 0.005	< 0.005
Zinc	mg/l	0.0019 J	NA	0.0069 J	< 0.018 U	NA	0.0064	0.0043	0.0069	< 0.0025
Appendix III										
Boron	mg/l	0.013 J	NA	0.018 J	0.026 J	NA	NA	NA	NA	NA
Calcium	mg/l	26.6	NA	27.8	34.5	NA	NA	NA	NA	NA
Chloride	mg/l	9.1	NA	9.8	11.7	NA	NA	NA	NA	NA
Fluoride	mg/l	0.58	ND	ND	< 0.050	NA	NA	NA	NA	NA
Sulfate	mg/l	180	NA	91.2	200	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/l	391	NA	372	351	NA	NA	NA	NA	NA
pH	SU	5.38	5.33	5.39	5.38	5.43	4.31	NA	NA	NA
Appendix IV										
Antimony	mg/l	ND	ND	ND	< 0.00027	NA	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/l	ND	0.00075 J	ND	< 0.00035	NA	< 0.005	< 0.005	< 0.005	< 0.005
Barium	mg/l	0.046	0.05	0.045	0.040	NA	0.025	0.014	0.0095	0.0094
Beryllium	mg/l	ND	0.00017 J	0.00014 J	0.00012 J	NA	< 0.0013	< 0.0013	< 0.0013	< 0.0013
Cadmium	mg/l	ND	ND	ND	< 0.00011	NA	< 0.0013	< 0.0013	< 0.0013	< 0.0013
Chromium	mg/l	ND	ND	0.00059 J	0.00040 J	NA	< 0.0013	< 0.005	< 0.0013	< 0.0013
Cobalt	mg/l	0.013	0.014	0.024	0.019	NA	< 0.0025	< 0.0025	< 0.0013	< 0.0013
Lead	mg/l	ND	0.000061 J	0.000057 J	< 0.000046	NA	< 0.013	< 0.013	< 0.013	< 0.013
Lithium	mg/l	NA	0.0043 J	0.0047 J	0.0053 J	NA	NA	NA	NA	NA
Mercury	mg/l	ND	ND	ND	NA	< 0.00014	< 0.000168	< 0.000123	< 0.0002	< 0.0001
Molybdenum	mg/l	NA	ND	NA	NA	NA	NA	NA	NA	NA
Combined Radium - 226/228	pCi/l	NA	1.22	< 0.71 U	1.30	NA	NA	NA	NA	NA
Selenium	mg/l	0.0034 J	0.0032 J	0.0026 J	0.0032 J	NA	< 0.013	< 0.013	< 0.005	< 0.005
Thallium	mg/l	ND	ND	ND	< 0.000052	NA	< 0.001	< 0.001	< 0.001	< 0.001

Analyte	Units	GWC-3R	GWC-3R	GWC-3R	GWC-3R	GWC-3R	GWC-3R	GWC-3R	GWC-3R	GWC-3R
		GWC-3R (081313)	GWC-3R (020514)	GWC-3R (080414)	GWC-3R (020315)	GWC-3R (080315)	GWC-3R (021616)	GWC-3R (083116)	GWC-3R (113016)	GWC-3R (022317)
		8/13/2013	2/5/2014	8/4/2014	2/3/2015	8/3/2015	2/16/2016	8/31/2016	11/30/2016	2/23/2017
Appendix I & II Metals (State Permit)										
Nickel	mg/l	0.0032	0.0039	0.0024 J	< 0.0025	< 0.0025	< 0.0025	NA	NA	< 0.01
Silver	mg/l	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	NA	NA	< 0.01
Vanadium	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	NA	NA	< 0.01
Zinc	mg/l	0.011	0.026 o	0.012	0.0061	0.0037	0.0093	NA	NA	0.0031 J
Appendix III										
Boron	mg/l	NA	NA	NA	NA	NA	NA	0.0315 J	0.0089 J	< 0.04
Calcium	mg/l	NA	NA	NA	NA	NA	NA	7.23	6.43 B	4.25
Chloride	mg/l	NA	NA	NA	NA	NA	NA	6.7	7.8	6.5
Fluoride	mg/l	NA	NA	NA	NA	NA	NA	0.07 J	0.03 J	0.04 J
Sulfate	mg/l	NA	NA	NA	NA	NA	NA	87	76	47
Total Dissolved Solids	mg/l	NA	NA	NA	NA	NA	NA	216	177 B	105
pH	SU	NA	NA	NA	NA	NA	NA	NA	5.13	5.28
Appendix IV										
Antimony	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.003	< 0.003	< 0.003
Arsenic	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Barium	mg/l	0.13	0.066	0.043	0.031	0.039	0.038	0.0286	0.0258	0.0278
Beryllium	mg/l	< 0.0013	< 0.0013	0.0011 J	0.00061 J	0.00051 J	0.00084 J	0.0003 J	0.0004 J	0.0003 J
Cadmium	mg/l	< 0.0013	< 0.0013	0.00034 J	< 0.0013	< 0.0013	0.00025 J	< 0.001	< 0.001	< 0.001
Chromium	mg/l	0.0019	0.0023	0.002	0.0014	0.0012 J	0.0017	0.0013 J	0.001 J	0.0012 J
Cobalt	mg/l	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.01	< 0.01	< 0.01
Lead	mg/l	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	0.0001 J	< 0.005	< 0.005
Lithium	mg/l	NA	NA	NA	NA	NA	NA	< 0.05	< 0.05	< 0.05
Mercury	mg/l	< 0.0002	< 0.0002	< 0.000213	< 0.0001	< 0.0002	0.0000134 J	< 0.0005	< 0.0005	< 0.0005
Molybdenum	mg/l	NA	NA	NA	NA	NA	NA	< 0.01	< 0.01	< 0.01
Combined Radium - 226/228	pCi/l	NA	NA	NA	NA	NA	NA	NA	< 0.0236 U	< 0.728 U
Selenium	mg/l	0.0057	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0038 J	0.0054 J	0.002 J
Thallium	mg/l	< 0.001	< 0.002	< 0.001	< 0.001	NA	< 0.001	< 0.001	< 0.001	< 0.001

Analyte	Units	GWC-3R	GWC-3R	GWC-3R	GWC-3R	GWC-3R	GWC-3R	GWC-3R	GWC-3R	GWC-3R
		GWC-3R (050917)	GWC-3R (071817)	GWC-3R (101817)	GWC-3R (022118)	GWC-3R (080718)	GWC-3R (022619)	GWC-3R (061319)	GWC-3R (082119)	GWC-3R (101019)
		5/9/2017	7/18/2017	10/18/2017	2/21/2018	8/7/2018	2/26/2019	6/13/2019	8/21/2019	10/10/2019
Appendix I & II Metals (State Permit)										
Nickel	mg/l	NA	NA	NA	< 0.005	< 0.01	< 0.01	ND	NA	ND
Silver	mg/l	NA	NA	NA	< 0.005	< 0.01	< 0.01	ND	NA	ND
Vanadium	mg/l	< 0.01	< 0.01	NA	< 0.01	< 0.01	< 0.01	0.0021 J	NA	0.0011 J
Zinc	mg/l	0.0025 J	0.0028 J	NA	0.003 J	0.0036 J	0.0033 J	0.0069 J	NA	0.0079 J
Appendix III										
Boron	mg/l	0.0077 J	0.0073 J	< 0.04	0.0399 J	0.0049 J	0.0053 J	ND	NA	0.0061 J
Calcium	mg/l	3.56	4.16	5.67	4.76	4.7	7.1	15.7	NA	4.3
Chloride	mg/l	7.2	7.7	6.5	6.7	6.3	5.7	5	NA	5.3
Fluoride	mg/l	< 0.3	< 0.3	0.22 J	< 0.1	< 0.3	< 0.3	0.58	0.037 J	ND
Sulfate	mg/l	41	44	53	46.7	38.8	49.3	77.1	NA	48
Total Dissolved Solids	mg/l	77	89	166	105	99	109	136	NA	109
pH	SU	5.12	5.21	5.17	5.15	4.95	5.22	5.08	5.32	5.4
Appendix IV										
Antimony	mg/l	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	ND	ND	ND
Arsenic	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0016 J	0.00061 J	ND
Barium	mg/l	0.0308	0.0407	0.049	0.0285	0.029	0.026	0.021	0.02	0.018
Beryllium	mg/l	0.0002 J	0.0002 J	0.0004 J	< 0.003	0.00026 J	0.00038 J	0.00051 J	0.00046 J	0.00039 J
Cadmium	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	0.00011 J	0.00021 J	ND	0.00018 J
Chromium	mg/l	0.0016 J	0.0009 J	0.001 J	< 0.01	< 0.01	< 0.01	0.00073 J	0.001 J	0.0014 J
Cobalt	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.01	0.0016 J	ND
Lead	mg/l	< 0.005	< 0.005	0.00008 J	< 0.005	< 0.005	< 0.005	ND	0.000082 J	ND
Lithium	mg/l	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	NA	NA	ND	ND
Mercury	mg/l	< 0.0005	< 0.0005	< 0.0005	< 0.0002	< 0.0005	0.000064 J	ND	ND	0.00043 J
Molybdenum	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	NA	NA	ND	NA
Combined Radium - 226/228	pCi/l	< 0.0367 U	< 0.237 U	< 0.706 U	< 0.526 U	< 0.376 U	NA	NA	< 0.774 U	< 0.433 U
Selenium	mg/l	< 0.01	0.0027 J	0.0047 J	< 0.01	0.0016 J	0.002 J	0.0089 J	0.004 J	0.0021 J
Thallium	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	ND	ND	ND

Analyte	Units	GWC-3R	GWC-3R	GWC-4R	GWC-4R	GWC-4R	GWC-4R	GWC-4R	GWC-4R	GWC-4R
		GWC-3R (031720)	GWC-3R (050720)	GWC-4R (112210)	GWC-4R (010411)	GWC-4R (021711)	GWC-4R (031111)	GWC-4R (032811)	GWC-4R (090711)	GWC-4R (030412)
		3/17/2020	5/7/2020	11/22/2010	1/4/2011	2/17/2011	3/11/2011	3/28/2011	9/7/2011	3/4/2012
Appendix I & II Metals (State Permit)										
Nickel	mg/l	0.00056 J	NA	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025
Silver	mg/l	< 0.00028	NA	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.005
Vanadium	mg/l	< 0.00071	NA	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.01
Zinc	mg/l	< 0.018	NA	< 0.0025	< 0.0025	< 0.0025	0.025 o	< 0.0025	< 0.0025	< 0.0025
Appendix III										
Boron	mg/l	0.0099 J	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/l	20.3	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	5.2	NA	NA	NA	NA	NA	NA	NA	NA
Fluoride	mg/l	0.10 J	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	95.2	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/l	175	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	5.03	5.05	NA	NA	NA	6.16	NA	5.07	NA
Appendix IV										
Antimony	mg/l	< 0.00027	NA	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/l	0.0016 J	NA	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Barium	mg/l	0.024	NA	0.03 o	0.065 o	0.061 o	0.066 o	0.04	0.041	0.046
Beryllium	mg/l	0.00095 J	NA	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
Cadmium	mg/l	0.00037 J	NA	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
Chromium	mg/l	0.0013 J	NA	< 0.0013	0.0062	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.005
Cobalt	mg/l	0.011	NA	< 0.0025	0.0036	0.0035	0.0053	< 0.0025	0.0033	0.0032
Lead	mg/l	0.00015 J	NA	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Lithium	mg/l	0.0012 J	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	NA	< 0.00014	< 0.000299	< 0.000299	< 0.000299	< 0.000299	< 0.000299	< 0.000168	< 0.000123
Molybdenum	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Combined Radium - 226/228	pCi/l	2.84	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/l	0.0096 J	NA	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Thallium	mg/l	< 0.000052	NA	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Analyte	Units	GWC-4R	GWC-4R	GWC-4R	GWC-4R	GWC-4R	GWC-4R	GWC-4R	GWC-4R	GWC-4R
		GWC-4R (091012)	GWC-4R (020613)	GWC-4R (081413)	GWC-4R (020414)	GWC-4R (080414)	GWC-4R (020215)	GWC-4R (080315)	GWC-4R (021616)	GWC-4R (090116)
		9/10/2012	2/6/2013	8/14/2013	2/4/2014	8/4/2014	2/2/2015	8/3/2015	2/16/2016	9/1/2016
Appendix I & II Metals (State Permit)										
Nickel	mg/l	< 0.0025	< 0.0025	< 0.0025	0.0033	0.0015 J	< 0.0025	< 0.0025	< 0.0025	NA
Silver	mg/l	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	NA
Vanadium	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	NA
Zinc	mg/l	< 0.0025	< 0.0025	< 0.0025	0.0034	0.0013 J	< 0.0025	< 0.0025	0.0017 J	NA
Appendix III										
Boron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	3.25
Calcium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	37.1
Chloride	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	190
Fluoride	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	0.15 J
Sulfate	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	150
Total Dissolved Solids	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	553
pH	SU	NA	NA	NA	NA	NA	NA	NA	NA	NA
Appendix IV										
Antimony	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0014 J
Arsenic	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Barium	mg/l	0.084	0.042	0.042	0.046	0.027	0.02	0.017	0.032	0.0377
Beryllium	mg/l	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.003
Cadmium	mg/l	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	0.0001 J
Chromium	mg/l	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.01
Cobalt	mg/l	0.0067	0.0024	0.0014	< 0.0013	< 0.0013	< 0.0013	< 0.0013	0.0082	0.0023 J
Lead	mg/l	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.005
Lithium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	< 0.05
Mercury	mg/l	< 0.0002	0.00014	< 0.0002	< 0.0002	< 0.000213	< 0.0001	< 0.0002	< 0.0002	< 0.0005
Molybdenum	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	< 0.01
Combined Radium - 226/228	pCi/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/l	0.011	0.011	0.013	0.017	0.0085	0.0089	0.0067	0.0047 J	0.0132
Thallium	mg/l	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001	< 0.001	NA	< 0.001	< 0.001

Analyte	Units	GWC-4R	GWC-4R	GWC-4R	GWC-4R	GWC-4R	GWC-4R	GWC-4R	GWC-4R	GWC-4R
		GWC-4R (113016)	GWC-4R (022417)	GWC-4R (051017)	GWC-4R (071817)	GWC-4R (101717)	GWC-4R (022018)	GWC-4R (080818)	GWC-4R (022619)	GWC-4R (061219)
		11/30/2016	2/24/2017	5/10/2017	7/18/2017	10/17/2017	2/20/2018	8/8/2018	2/26/2019	6/12/2019
Appendix I & II Metals (State Permit)										
Nickel	mg/l	NA	0.0021 J	NA	NA	NA	< 0.005	0.0012 J	< 0.01	0.00082 J
Silver	mg/l	NA	< 0.01	NA	NA	NA	< 0.005	< 0.01	< 0.01	ND
Vanadium	mg/l	NA	< 0.01	< 0.01	< 0.01	NA	< 0.01	< 0.01	< 0.01	0.00088 J
Zinc	mg/l	NA	0.0028 J	0.0014 J	0.0015 J	NA	< 0.01	0.0033 J	< 0.01	ND
Appendix III										
Boron	mg/l	0.813	2.53	1.22	0.97	0.804	1.01	1.3	0.75	1.5
Calcium	mg/l	13.4 B	29.5	17	16.8	14.3	< 25	22.1 J	15.1 J	24.2
Chloride	mg/l	48	130	71	46	50	53.1	69.3	42.2	69.5
Fluoride	mg/l	0.11 J	0.08 J	0.04 J	< 0.3	< 0.3	< 0.1	< 0.3	< 0.3	ND
Sulfate	mg/l	50	110	70	50	58	64.6	79.5	55.8	92.8
Total Dissolved Solids	mg/l	247 B	414	251	179	256	233	292	226	298
pH	SU	5.61	5.47	5.68	5.59	5.52	5.51	5.33	5.42	5.54
Appendix IV										
Antimony	mg/l	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.00028 J
Arsenic	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00037 J
Barium	mg/l	0.0148	0.029	0.0182	0.0187	0.0157	0.0151	0.019	0.017	0.017
Beryllium	mg/l	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	ND
Cadmium	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	ND
Chromium	mg/l	0.0013 J	< 0.01	0.0007 J	0.0011 J	< 0.01	< 0.01	< 0.01	< 0.01	ND
Cobalt	mg/l	0.0008 J	0.0025 J	< 0.01	0.0005 J	0.0006 J	< 0.01	0.001 J	< 0.01	0.00078 J
Lead	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	ND
Lithium	mg/l	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	NA	NA
Mercury	mg/l	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0002	< 0.0005	0.000058 J	ND
Molybdenum	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	NA	NA
Combined Radium - 226/228	pCi/l	< 0.477 U	< 0.305 U	< 0.0659 U	< 0.199 U	< 0.294 U	< 1.03 U	< 0.0378 U	NA	NA
Selenium	mg/l	0.0046 J	0.0108	0.0054 J	0.0047 J	0.004 J	< 0.01	0.0041 J	0.0027 J	0.0029 J
Thallium	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	ND

Analyte	Units	GWC-4R	GWC-4R	GWC-4R	GWC-4R	GWC-5R	GWC-5R	GWC-5R	GWC-5R	GWC-5R
		GWC-4R (081919)	GWC-4R (101019)	GWC-4R (031820)	GWC-4R (050720)	GWC-5R (090711)	GWC-5R (030512)	GWC-5R (090512)	GWC-5R (020513)	GWC-5R (081413)
		8/19/2019	10/10/2019	3/18/2020	5/7/2020	9/7/2011	3/5/2012	9/5/2012	2/5/2013	8/14/2013
Appendix I & II Metals (State Permit)										
Nickel	mg/l	NA	0.00084 J	0.0026 J	NA	< 0.0025	< 0.0025	< 0.0025	< 0.0025	0.0032
Silver	mg/l	NA	ND	< 0.00028	NA	< 0.0025	< 0.005	< 0.0025	< 0.0025	< 0.0025
Vanadium	mg/l	NA	ND	< 0.00071	NA	< 0.0025	< 0.01	< 0.005	< 0.005	< 0.005
Zinc	mg/l	NA	0.006 J	< 0.018	NA	0.0064	0.0034	0.0035	0.0027	0.0041
Appendix III										
Boron	mg/l	NA	0.78	5.4	NA	NA	NA	NA	NA	NA
Calcium	mg/l	NA	18	76.6	NA	NA	NA	NA	NA	NA
Chloride	mg/l	NA	42.8	233	NA	NA	NA	NA	NA	NA
Fluoride	mg/l	ND	ND	< 0.050	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	NA	68.7	199	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/l	NA	247	703	NA	NA	NA	NA	NA	NA
pH	SU	5.56	5.55	5.58	5.52	5.64	NA	NA	NA	NA
Appendix IV										
Antimony	mg/l	ND	ND	< 0.00027	NA	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/l	0.00059 J	ND	< 0.00035	NA	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Barium	mg/l	0.02	0.018	0.038	NA	0.02 o	0.048 o	0.07 o	0.068 o	0.036
Beryllium	mg/l	ND	ND	< 0.000074	NA	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
Cadmium	mg/l	ND	ND	< 0.00011	NA	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
Chromium	mg/l	0.00051 J	0.00057 J	< 0.00039	NA	< 0.0013	< 0.005	< 0.0013	< 0.0013	0.0016
Cobalt	mg/l	0.001 J	0.00099 J	0.0031 J	NA	< 0.0025	< 0.0025	< 0.0013	< 0.0013	< 0.0013
Lead	mg/l	ND	ND	< 0.000046	NA	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Lithium	mg/l	0.00094 J	0.0013 J	< 0.00078	NA	NA	NA	NA	NA	NA
Mercury	mg/l	ND	ND	NA	< 0.00014	< 0.000168	< 0.000123	< 0.0002	< 0.0001	< 0.0002
Molybdenum	mg/l	ND	NA	NA	NA	NA	NA	NA	NA	NA
Combined Radium - 226/228	pCi/l	< 0.637 U	< 0.525 U	0.87	NA	NA	NA	NA	NA	NA
Selenium	mg/l	0.003 J	0.0024 J	0.0046 J	NA	< 0.013	0.014	0.012	0.011	0.025
Thallium	mg/l	ND	ND	< 0.000052	NA	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Analyte	Units	GWC-5R	GWC-5R	GWC-5R	GWC-5R	GWC-5R	GWC-5R	GWC-5R	GWC-5R	GWC-5R
		GWC-5R (020514)	GWC-5R (080414)	GWC-5R (020315)	GWC-5R (080315)	GWC-5R (021616)	GWC-5R (090116)	GWC-5R (120116)	GWC-5R (022417)	GWC-5R (051017)
		2/5/2014	8/4/2014	2/3/2015	8/3/2015	2/16/2016	9/1/2016	12/1/2016	2/24/2017	5/10/2017
Appendix I & II Metals (State Permit)										
Nickel	mg/l	0.0032	0.0059	0.0013 J	0.0039	0.0036	NA	NA	0.0019 J	NA
Silver	mg/l	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	NA	NA	< 0.01	NA
Vanadium	mg/l	< 0.005	0.0022 J	< 0.005	0.0019 J	0.0011 J	NA	NA	< 0.01	< 0.01
Zinc	mg/l	0.011	0.011	0.0044	0.011	0.014	NA	NA	0.0043 J	0.0042 J
Appendix III										
Boron	mg/l	NA	NA	NA	NA	NA	0.0191 J	0.0088 J	0.0067 J	0.0068 J
Calcium	mg/l	NA	NA	NA	NA	NA	113	141 B	118	136
Chloride	mg/l	NA	NA	NA	NA	NA	6.6	6	3.4	4.5
Fluoride	mg/l	NA	NA	NA	NA	NA	0.03 J	< 0.3	0.03 J	< 0.3
Sulfate	mg/l	NA	NA	NA	NA	NA	990	1100	850	1000
Total Dissolved Solids	mg/l	NA	NA	NA	NA	NA	1400	1610 B	1200	1360
pH	SU	NA	NA	NA	NA	NA	NA	5.24	5.37	5.2
Appendix IV										
Antimony	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.003	< 0.003	< 0.003	< 0.003
Arsenic	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0011 J
Barium	mg/l	0.044	0.058	0.033	0.037	0.04	0.0345	0.0342	0.0347	0.0363
Beryllium	mg/l	< 0.0013	0.00026 J	0.00023 J	0.00046 J	0.00048 J	0.0005 J	0.0003 J	0.0002 J	0.0003 J
Cadmium	mg/l	< 0.0013	0.00045 J	< 0.0013	0.00046 J	0.00097 J	0.0005 J	0.0004 J	0.0003 J	0.0003 J
Chromium	mg/l	0.0018	0.0029	0.0017	0.0028	0.0028	0.0021 J	0.0017 J	0.0018 J	0.0024 J
Cobalt	mg/l	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.01	< 0.01	< 0.01	< 0.01
Lead	mg/l	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.005	< 0.005	< 0.005	< 0.005
Lithium	mg/l	NA	NA	NA	NA	NA	< 0.05	< 0.05	< 0.05	< 0.05
Mercury	mg/l	< 0.0002	< 0.000213	< 0.0001	< 0.0002	< 0.0002	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Molybdenum	mg/l	NA	NA	NA	NA	NA	< 0.01	< 0.01	< 0.01	< 0.01
Combined Radium - 226/228	pCi/l	NA	NA	NA	NA	NA	NA	< 0.0588 U	< 0.487 U	< 0.289 U
Selenium	mg/l	0.02	0.032	0.011	0.046	0.022	0.0212	0.0234	0.0154	0.0152
Thallium	mg/l	< 0.002	< 0.001	< 0.001	NA	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Analyte	Units	GWC-5R	GWC-5R	GWC-5R	GWC-5R	GWC-5R	GWC-5R	GWC-5R	GWC-5R	GWC-5R
		GWC-5R (071717)	GWC-5R (101617)	GWC-5R (022118)	GWC-5R (080718)	GWC-5R (022619)	GWC-5R (061319)	GWC-5R (082119)	GWC-5R (100919)	GWC-5R (012120)
		7/17/2017	10/16/2017	2/21/2018	8/7/2018	2/26/2019	6/13/2019	8/21/2019	10/9/2019	1/21/2020
Appendix I & II Metals (State Permit)										
Nickel	mg/l	NA	NA	0.0013 J	0.0019 J	0.0023 J	0.0019 J	NA	0.0019 J	NA
Silver	mg/l	NA	NA	< 0.005	< 0.01	< 0.01	ND	NA	ND	NA
Vanadium	mg/l	< 0.01	NA	< 0.01	< 0.01	< 0.01	ND	NA	ND	NA
Zinc	mg/l	0.0055 J	NA	0.0102	0.015	0.015	0.015	NA	0.025	0.015
Appendix III										
Boron	mg/l	0.0102 J	0.0066 J	0.0268 J	0.012 J	0.033 J	0.03 J	NA	0.013 J	NA
Calcium	mg/l	125	78.2	64	83	94.4	127	NA	128	NA
Chloride	mg/l	3.2	9	5.6	4.7	4.2	5.5	NA	4.5	NA
Fluoride	mg/l	0.37	< 0.3	< 0.1	< 0.3	0.035 J	ND	ND	0.35	NA
Sulfate	mg/l	830	720	533	784	742	976	NA	1180	NA
Total Dissolved Solids	mg/l	1340	1080	830	1180	1010	1410	NA	1680	NA
pH	SU	5.21	5.16	5.18	5.06	5.08	5.01	4.88	4.89	4.99
Appendix IV										
Antimony	mg/l	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	ND	0.00054 J	ND	NA
Arsenic	mg/l	0.0013 J	0.0011 J	0.00091 J	0.0021 J	0.00069 J	0.0012 J	0.00094 J	0.0012 J	NA
Barium	mg/l	0.0274	0.0151	0.0174	0.015	0.014	0.014	0.014	0.015	NA
Beryllium	mg/l	0.0004 J	0.0006 J	< 0.003	0.00096 J	0.0015 J	0.0015 J	0.0028 J	0.0022 J	NA
Cadmium	mg/l	0.0004 J	0.0006 J	< 0.001	0.00083 J	0.00081 J	0.00073 J	0.0012 J	0.0011 J	NA
Chromium	mg/l	0.0017 J	0.0023 J	< 0.01	0.0024 J	0.0019 J	0.0018 J	0.0024 J	0.0024 J	NA
Cobalt	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	ND	0.00034 J	0.00031 J	NA
Lead	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	ND	0.00007 J	0.000059 J	NA
Lithium	mg/l	< 0.05	< 0.05	< 0.05	< 0.05	NA	NA	0.0015 J	0.0014 J	NA
Mercury	mg/l	< 0.0005	< 0.0005	< 0.0002	< 0.0005	0.00006 J	ND	ND	ND	NA
Molybdenum	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	NA	NA	ND	NA	NA
Combined Radium - 226/228	pCi/l	< 0.528 U	< 0.558 U	< 1.13 U	< 0.51 U	NA	NA	1.82	< 0.498 U	NA
Selenium	mg/l	0.0136	0.0242	0.0127	0.021	0.024	0.027	0.037	0.034	NA
Thallium	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	ND	0.000053 J	ND	NA

Analyte	Units	GWC-5R	GWC-5R	GWC-6R	GWC-6R	GWC-6R	GWC-6R	GWC-6R	GWC-6R	GWC-6R
		GWC-5R (031820)	GWC-5R (050720)	GWC-6R (090909)	GWC-6R (111809)	GWC-6R (010510)	GWC-6R (030310)	GWC-6R (090710)	GWC-6R (031011)	GWC-6R (090811)
		3/18/2020	5/7/2020	9/9/2009	11/18/2009	1/5/2010	3/3/2010	9/7/2010	3/10/2011	9/8/2011
Appendix I & II Metals (State Permit)										
Nickel	mg/l	0.0020 J	NA	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025
Silver	mg/l	< 0.00028	NA	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025
Vanadium	mg/l	< 0.00071	NA	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025
Zinc	mg/l	0.023	NA	0.003	< 0.0025	0.0027	< 0.0025	< 0.0025	< 0.0025	< 0.0025
Appendix III										
Boron	mg/l	0.034 J	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/l	149	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	3.8	NA	NA	NA	NA	NA	NA	NA	NA
Fluoride	mg/l	< 0.050	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	960	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/l	1520	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	4.88	5.20	NA	5.82	5.8	6.15	NA	6.05	5.31
Appendix IV										
Antimony	mg/l	< 0.00027	NA	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/l	0.00080 J	NA	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Barium	mg/l	0.015	NA	0.025	0.025	0.018	0.022	0.019	0.017	0.019
Beryllium	mg/l	0.0028 J	NA	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
Cadmium	mg/l	0.0012 J	NA	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
Chromium	mg/l	0.0023 J	NA	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	0.0018
Cobalt	mg/l	0.00044 J	NA	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025
Lead	mg/l	0.000079 J	NA	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Lithium	mg/l	0.0017 J	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	NA	<0.00014	< 0.00025	< 0.00025	< 0.00025	< 0.000591	< 0.000591	< 0.000299	< 0.000168
Molybdenum	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Combined Radium - 226/228	pCi/l	0.79	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/l	0.028	NA	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Thallium	mg/l	< 0.000052	NA	< 0.002	< 0.002	< 0.002	< 0.002	< 0.002	< 0.001	< 0.001

Analyte	Units	GWC-6R	GWC-6R	GWC-6R	GWC-6R	GWC-6R	GWC-6R	GWC-6R	GWC-6R	GWC-6R
		GWC-6R (030512)	GWC-6R (090512)	GWC-6R (020513)	GWC-6R (081313)	GWC-6R (020414)	GWC-6R (080514)	GWC-6R (020315)	GWC-6R (080415)	GWC-6R (021616)
		3/5/2012	9/5/2012	2/5/2013	8/13/2013	2/4/2014	8/5/2014	2/3/2015	8/4/2015	2/16/2016
Appendix I & II Metals (State Permit)										
Nickel	mg/l	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025
Silver	mg/l	< 0.005	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025	< 0.0025
Vanadium	mg/l	< 0.01	< 0.005	< 0.005	< 0.005	< 0.005	0.0015 J	0.00093 J	0.0036 J	0.0011 J
Zinc	mg/l	0.0053	0.0033	< 0.0025	0.0038	0.0046	0.0019 J	0.0026	0.0035	0.002 J
Appendix III										
Boron	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Calcium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chloride	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Fluoride	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Sulfate	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Total Dissolved Solids	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
pH	SU	6.23	5.83	6.79	6.48	6.14	NA	NA	NA	5.2
Appendix IV										
Antimony	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Arsenic	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Barium	mg/l	0.027	0.04	0.056	0.07	0.051	0.041	0.04	0.042	0.068
Beryllium	mg/l	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
Cadmium	mg/l	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
Chromium	mg/l	< 0.005	0.0013	< 0.0013	0.0025	0.0013	0.0018	0.0015	0.0028	0.001 J
Cobalt	mg/l	< 0.0025	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013	0.0014	< 0.0013
Lead	mg/l	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013
Lithium	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Mercury	mg/l	< 0.000123	< 0.0002	< 0.0001	< 0.0002	< 0.0002	< 0.000213	< 0.0001	< 0.0002	0.0000113 J
Molybdenum	mg/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Combined Radium - 226/228	pCi/l	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	mg/l	< 0.013	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Thallium	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001	< 0.001	NA	< 0.001

Analyte	Units	GWC-6R	GWC-6R	GWC-6R	GWC-6R	GWC-6R	GWC-6R	GWC-6R	GWC-6R	GWC-6R
		GWC-6R (090116)	GWC-6R (112916)	GWC-6R (022317)	GWC-6R (051017)	GWC-6R (071817)	GWC-6R (101817)	GWC-6R (021918)	GWC-6R (080618)	GWC-6R (022519)
		9/1/2016	11/29/2016	2/23/2017	5/10/2017	7/18/2017	10/18/2017	2/19/2018	8/6/2018	2/25/2019
Appendix I & II Metals (State Permit)										
Nickel	mg/l	NA	NA	0.0015 J	NA	NA	NA	< 0.005	0.0026 J	0.0023 J
Silver	mg/l	NA	NA	< 0.01	NA	NA	NA	< 0.005	< 0.01	< 0.01
Vanadium	mg/l	NA	NA	< 0.01	< 0.01	< 0.01	NA	< 0.01	0.0029 J	< 0.01
Zinc	mg/l	NA	NA	0.0038 J	0.0027 J	0.0024 J	NA	< 0.01	0.004 J	0.0028 J
Appendix III										
Boron	mg/l	0.0108 J	< 0.04	< 0.04	< 0.04	0.0061 J	< 0.04	< 0.04	< 0.2	< 0.04
Calcium	mg/l	56.8	50.7 B	63.5	105	157	118	124	173	143
Chloride	mg/l	4.4	4.8	4.4	3.9	4	4.1	4.4	3.9	4.4
Fluoride	mg/l	0.28 J	0.05 J	0.07 J	0.02 J	< 0.3	< 0.3	< 0.1	< 0.3	< 0.3
Sulfate	mg/l	360	320	380	660	880	760	718	797	763
Total Dissolved Solids	mg/l	578	455	614	955	1270	1150	1070	1260	1160
pH	SU	NA	5.92	5.97	5.82	5.76	5.76	5.86	5.84	5.91
Appendix IV										
Antimony	mg/l	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Arsenic	mg/l	< 0.005	< 0.005	< 0.005	0.0007 J	0.001 J	0.0011 J	< 0.005	0.0023 J	0.00073 J
Barium	mg/l	0.0536	0.0459	0.0581	0.0873	0.0994	0.0757	0.0703	0.076	0.045
Beryllium	mg/l	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.015	< 0.003
Cadmium	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chromium	mg/l	0.0015 J	0.0014 J	0.0017 J	0.0015 J	0.0012 J	0.0012 J	< 0.01	< 0.01	< 0.01
Cobalt	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Lithium	mg/l	< 0.05	< 0.05	0.0028 J	0.0054 J	0.002 J	0.0026 J	< 0.05	< 0.25	NA
Mercury	mg/l	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0002	< 0.0005	0.000067 J
Molybdenum	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	NA
Combined Radium - 226/228	pCi/l	NA	< 0.232 U	< 1.18 U	< 0.658 U	< 0.797 U	< 0.239 U	0.973	< 0.866 U	NA
Selenium	mg/l	0.002 J	0.0017 J	0.0018 J	0.0023 J	0.0046 J	0.0037 J	< 0.01	0.0047 J	0.0051 J
Thallium	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001

Analyte	Units	GWC-6R	GWC-6R	GWC-6R	GWC-6R	GWC-6R
		GWC-6R (061319)	GWC-6R (082019)	GWC-6R (100819)	GWC-6R (031720)	GWC-6R (050620)
		6/13/2019	8/20/2019	10/8/2019	3/17/2020	5/6/2020
Appendix I & II Metals (State Permit)						
Nickel	mg/l	0.0037 J	NA	0.0021 J	0.0011 J	NA
Silver	mg/l	ND	NA	ND	< 0.00028	NA
Vanadium	mg/l	ND	NA	ND	0.00098 J	NA
Zinc	mg/l	ND	NA	0.006 J	< 0.018	NA
Appendix III						
Boron	mg/l	ND	NA	ND	< 0.0049	NA
Calcium	mg/l	146	NA	115	66.8	NA
Chloride	mg/l	6.2	NA	4.9	4.4	NA
Fluoride	mg/l	ND	ND	ND	< 0.050	NA
Sulfate	mg/l	918	NA	664	303	NA
Total Dissolved Solids	mg/l	1310	NA	1050	588	NA
pH	SU	5.84	5.85	5.91	5.97	5.99
Appendix IV						
Antimony	mg/l	ND	ND	ND	< 0.00027	NA
Arsenic	mg/l	0.00068 J	0.00072 J	0.00056 J	< 0.00035	NA
Barium	mg/l	0.062	0.06	0.054	0.031	NA
Beryllium	mg/l	ND	ND	ND	< 0.000074	NA
Cadmium	mg/l	ND	ND	ND	< 0.00011	NA
Chromium	mg/l	0.00089 J	0.0017 J	0.0014 J	0.0013 J	NA
Cobalt	mg/l	ND	ND	ND	< 0.00030	NA
Lead	mg/l	ND	ND	ND	< 0.000046	NA
Lithium	mg/l	NA	0.002 J	0.0021 J	0.0018 J	NA
Mercury	mg/l	ND	ND	ND	NA	< 0.00014
Molybdenum	mg/l	NA	ND	NA	NA	NA
Combined Radium - 226/228	pCi/l	NA	< 0.409 U	< 0.91 U	2.50	NA
Selenium	mg/l	0.0048 J	0.0039 J	0.0031 J	0.0026 J	NA
Thallium	mg/l	ND	ND	ND	< 0.000052	NA

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 III = Indicator parameters evaluated during Detection Monitoring.
3. Appendix IV = Parameters evaluated during Assessment Monitoring.
4. < Analyte was not detected above the laboratory reporting limit (RL) or method detection limit (MDL). Prior to 2020, the value reported is the RL.
5. NA = Not analyzed.
6. Detections are **bold**.

Laboratory Qualifiers:

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

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

Appendix D

Statistical Analysis Results



Appendix III Statistically Significant Increase Summary (March 2020)

Appendix III Parameter	Monitoring Wells	
	October 2019	March 2020
Boron	GWC-4R	GWC-4R
Calcium	GWC-1R, GWC-5R, GWC-6R	GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R
Chloride	GWC-1R, GWC-2R, GWC-3R, GWC-4R	GWC-1R, GWC-2R, GWC-3R, GWC-4R
Sulfate	GWC-1R, GWC-5R, GWC-6R	GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R
TDS	GWC-1R, GWC-2R, GWC-5R, GWC-6R	GWC-1R, GWC-2R, GWC-4R, GWC-5R, GWC-6R

March 2020

Semiannual Event



100% Nondetect Well-Constituent Pairs

Date: 5/12/2020 10:27 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Antimony (mg/L)

GWC-1R, GWC-2R, GWC-3R

Beryllium (mg/L)

GWA-2, GWC-4R

Cadmium (mg/L)

GWA-2

Lead (mg/L)

GWA-2, GWC-4R

Molybdenum (mg/L)

GWA-2, GWC-1R, GWC-2R, GWC-3R, GWC-4R, GWC-5R

Selenium (mg/L)

GWA-2

Silver (mg/L)

GWA-2, GWC-1R, GWC-2R, GWC-3R, GWC-4R, GWC-5R

Thallium (mg/L)

GWC-1R, GWC-3R, GWC-4R

Date Ranges

Date: 5/1/2020 10:11 AM

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Barium (mg/L)

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

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

Outlier Summary

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/28/2020, 3:04 PM

	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)	

State Parameters Intrawell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/21/2020, 12:39 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg</u>	<u>NBg</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Cobalt (mg/L)	GWC-3R	0.005	n/a	3/17/2020	0.011	Yes	18	n/a	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-5R	0.01798	n/a	3/18/2020	0.023	Yes	15	0.00738	0.004189	0	0	None	No	0.0005852	Param Intra 1 of 2

State Parameters Intrawell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/21/2020, 12:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsv.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-2	0.003	n/a	3/17/2020	0.003ND	No	27	n/a	n/a	n/a	96.3	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-4R	0.003	n/a	3/18/2020	0.003ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-5R	0.003	n/a	3/18/2020	0.003ND	No	18	n/a	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-2	0.005	n/a	3/17/2020	0.005ND	No	27	n/a	n/a	n/a	100	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-1R	0.005	n/a	3/17/2020	0.005ND	No	18	n/a	n/a	n/a	88.89	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-2R	0.005	n/a	3/18/2020	0.005ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-3R	0.005	n/a	3/17/2020	0.0016	No	18	n/a	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-4R	0.005	n/a	3/18/2020	0.005ND	No	23	n/a	n/a	n/a	100	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-5R	0.005	n/a	3/18/2020	0.0008	No	18	n/a	n/a	n/a	72.22	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-6R	0.005	n/a	3/17/2020	0.005ND	No	24	n/a	n/a	n/a	83.33	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWA-2	0.07943	n/a	3/17/2020	0.047	No	27	0.05023	0.01305	0	0	None	No	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-1R	0.09203	n/a	3/17/2020	0.031	No	18	0.04614	0.01903	0	0	None	No	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-2R	0.13	n/a	3/18/2020	0.04	No	23	n/a	n/a	0	0	n/a	n/a	0.003415	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-3R	0.1072	n/a	3/17/2020	0.024	No	18	0.1832	0.05976	0	0	None	sqrt(x)	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-4R	0.0778	n/a	3/18/2020	0.038	No	19	0.1732	0.04443	0	0	None	sqrt(x)	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-5R	0.06311	n/a	3/18/2020	0.015	No	14	0.03304	0.01162	0	0	None	No	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-6R	0.1025	n/a	3/17/2020	0.031	No	24	0.04776	0.02401	0	0	None	No	0.0005852	Param Intra 1 of 2
Beryllium (mg/L)	GWC-1R	0.003	n/a	3/17/2020	0.000076	No	18	n/a	n/a	n/a	66.67	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-2R	0.003	n/a	3/18/2020	0.00012	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-3R	0.003	n/a	3/17/2020	0.00095	No	18	n/a	n/a	n/a	38.89	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWC-5R	0.003	n/a	3/18/2020	0.0028	No	18	n/a	n/a	n/a	38.89	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Cadmium (mg/L)	GWC-1R	0.001	n/a	3/17/2020	0.001ND	No	18	n/a	n/a	n/a	94.44	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-2R	0.001	n/a	3/18/2020	0.001ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-3R	0.001	n/a	3/17/2020	0.00037	No	18	n/a	n/a	n/a	88.89	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-4R	0.001	n/a	3/18/2020	0.001ND	No	23	n/a	n/a	n/a	95.65	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-5R	0.001	n/a	3/18/2020	0.0012	No	18	n/a	n/a	n/a	44.44	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWA-2	0.01	n/a	3/17/2020	0.01ND	No	27	n/a	n/a	n/a	70.37	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-1R	0.01	n/a	3/17/2020	0.001	No	18	n/a	n/a	n/a	61.11	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-2R	0.01	n/a	3/18/2020	0.0004	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-3R	0.01	n/a	3/17/2020	0.0013	No	18	n/a	n/a	n/a	33.33	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-4R	0.01	n/a	3/18/2020	0.01ND	No	23	n/a	n/a	n/a	82.61	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-5R	0.01	n/a	3/18/2020	0.0023	No	18	n/a	n/a	n/a	27.78	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-6R	0.01	n/a	3/17/2020	0.0013	No	24	n/a	n/a	n/a	41.67	n/a	n/a	0.003124	NP Intra (normality) 1 of 2
Cobalt (mg/L)	GWA-2	0.006994	n/a	3/17/2020	0.003	No	27	0.003556	0.001537	40.74	Kaplan-Meier	No	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-1R	0.008717	n/a	3/17/2020	0.00054	No	18	-6.613	0.7756	50	Kaplan-Meier	ln(x)	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-2R	0.04742	n/a	3/18/2020	0.019	No	23	0.02477	0.009863	4.348	None	No	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-3R	0.005	n/a	3/17/2020	0.011	Yes	18	n/a	n/a	100	n/a	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-4R	0.007137	n/a	3/18/2020	0.0031	No	23	0.002697	0.001934	34.78	Kaplan-Meier	No	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-5R	0.005	n/a	3/18/2020	0.00044	No	18	n/a	n/a	100	n/a	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-6R	0.005	n/a	3/17/2020	0.005ND	No	24	n/a	n/a	95.83	n/a	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-2	0.025	n/a	3/17/2020	0.00078	No	22	n/a	n/a	n/a	54.55	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-1R	0.025	n/a	3/17/2020	0.0004	No	13	n/a	n/a	n/a	92.31	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-2R	0.005	n/a	3/18/2020	0.005ND	No	18	n/a	n/a	100	n/a	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-3R	0.025	n/a	3/17/2020	0.00039	No	13	n/a	n/a	n/a	76.92	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-4R	0.025	n/a	3/18/2020	0.00021	No	18	n/a	n/a	n/a	88.89	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-5R	0.025	n/a	3/18/2020	0.00097	No	13	n/a	n/a	n/a	92.31	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-6R	0.005	n/a	3/17/2020	0.00091	No	19	n/a	n/a	n/a	57.89	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-1R	0.005	n/a	3/17/2020	0.005ND	No	18	n/a	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-2R	0.005	n/a	3/18/2020	0.005ND	No	23	n/a	n/a	n/a	91.3	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-3R	0.005	n/a	3/17/2020	0.00015	No	18	n/a	n/a	n/a	88.89	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-5R	0.005	n/a	3/18/2020	0.000079	No	18	n/a	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-1R	0.01	n/a	3/17/2020	0.0017	No	18	n/a	n/a	n/a	66.67	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-2R	0.01	n/a	3/18/2020	0.0032	No	23	n/a	n/a	n/a	69.57	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-3R	0.01	n/a	3/17/2020	0.0096	No	18	n/a	n/a	n/a	61.11	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-4R	0.01548	n/a	3/18/2020	0.0046	No	23	0.007285	0.003569	34.78	Kaplan-Meier	No	No	0.0005852	Param Intra 1 of 2

State Parameters Intrawell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/21/2020, 12:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	GWC-5R	0.04273	n/a	3/18/2020	0.028	No	18	0.1371	0.02884	5.556	None	sqrt(x)	0.0005852	Param Intra 1 of 2	
Selenium (mg/L)	GWC-6R	0.01	n/a	3/17/2020	0.0026	No	24	n/a	n/a	70.83	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2	
Thallium (mg/L)	GWA-2	0.001	n/a	3/17/2020	0.001ND	No	26	n/a	n/a	88.46	n/a	n/a	0.002667	NP Intra (NDs) 1 of 2	
Thallium (mg/L)	GWC-2R	0.001	n/a	3/18/2020	0.001ND	No	21	n/a	n/a	95.24	n/a	n/a	0.003999	NP Intra (NDs) 1 of 2	
Thallium (mg/L)	GWC-5R	0.001	n/a	3/18/2020	0.001ND	No	17	n/a	n/a	100	n/a	n/a	0.005914	NP Intra (NDs) 1 of 2	
Zinc (mg/L)	GWA-2	0.009584	n/a	3/17/2020	0.01ND	No	23	0.004991	0.002	4.348	None	No	0.0005852	Param Intra 1 of 2	
Zinc (mg/L)	GWC-1R	0.007102	n/a	3/17/2020	0.01ND	No	15	0.05264	0.0125	20	Kaplan-Meier	sqrt(x)	0.0005852	Param Intra 1 of 2	
Zinc (mg/L)	GWC-2R	0.01249	n/a	3/18/2020	0.01ND	No	20	0.0653	0.01977	10	None	sqrt(x)	0.0005852	Param Intra 1 of 2	
Zinc (mg/L)	GWC-3R	0.01462	n/a	3/17/2020	0.01ND	No	14	0.00605	0.003313	7.143	None	No	0.0005852	Param Intra 1 of 2	
Zinc (mg/L)	GWC-4R	0.01	n/a	3/18/2020	0.01ND	No	19	n/a	n/a	63.16	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2	
Zinc (mg/L)	GWC-5R	0.01798	n/a	3/18/2020	0.023	Yes	15	0.00738	0.004189	0	None	No	0.0005852	Param Intra 1 of 2	
Zinc (mg/L)	GWC-6R	0.01	n/a	3/17/2020	0.01ND	No	21	n/a	n/a	33.33	n/a	n/a	0.003999	NP Intra (normality) 1 of 2	

State Parameters Trend Tests - PL Exceedances - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/7/2020, 4:51 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Cobalt (mg/L)	GWA-2 (bg)	-0.0001578	-161	-145	Yes	32	34.38	n/a	n/a	0.02	NP
Cobalt (mg/L)	GWC-3R	0	21	89	No	23	86.96	n/a	n/a	0.02	NP
Zinc (mg/L)	GWA-2 (bg)	-0.00003672	-24	-112	No	27	11.11	n/a	n/a	0.02	NP
Zinc (mg/L)	GWC-5R	0.001695	115	73	Yes	20	0	n/a	n/a	0.02	NP

Appendix III Intrawell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/7/2020, 2:14 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bq</u>	<u>NBq</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Alpha</u>	<u>Method</u>
pH (S.U.)	GWC-1R	5.52	4.49	3/17/2020	5.7	Yes	9	n/a	n/a	n/a	0	n/a	0.03619	NP (normality) 1 of 2

Appendix III Intrawell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/7/2020, 2:14 PM

Constituent	Well	Upper Lim.	Lower Lim	Date	Observ.	Sig.	Bq	NBq	Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Fluoride (mg/L)	GWA-2	0.2151	n/a	3/17/2020	0.053	No	9	0.1174	0.03628	0	None	0.001254	Param 1 of 2	
Fluoride (mg/L)	GWC-1R	0.3	n/a	3/17/2020	0.3ND	No	9	n/a	n/a	55.56	n/a	0.01809	NP (NDs) 1 of 2	
Fluoride (mg/L)	GWC-2R	0.3	n/a	3/18/2020	0.3ND	No	9	n/a	n/a	55.56	n/a	0.01809	NP (NDs) 1 of 2	
Fluoride (mg/L)	GWC-3R	0.3	n/a	3/17/2020	0.1	No	9	n/a	n/a	55.56	n/a	0.01809	NP (NDs) 1 of 2	
Fluoride (mg/L)	GWC-4R	0.3	n/a	3/18/2020	0.3ND	No	9	n/a	n/a	55.56	n/a	0.01809	NP (NDs) 1 of 2	
Fluoride (mg/L)	GWC-5R	0.37	n/a	3/18/2020	0.3ND	No	9	n/a	n/a	55.56	n/a	0.01809	NP (NDs) 1 of 2	
Fluoride (mg/L)	GWC-6R	0.3	n/a	3/17/2020	0.3ND	No	9	n/a	n/a	55.56	n/a	0.01809	NP (NDs) 1 of 2	
pH (S.U.)	GWA-2	7.106	5.427	3/17/2020	6.14	No	21	6.266	0.401	0	None	0.0006268	Param 1 of 2	
pH (S.U.)	GWC-1R	5.52	4.49	3/17/2020	5.7	Yes	9	n/a	n/a	0	n/a	0.03619	NP (normality) 1 of 2	
pH (S.U.)	GWC-2R	6.8	4.35	3/18/2020	5.38	No	16	n/a	n/a	0	n/a	0.01291	NP (normality) 1 of 2	
pH (S.U.)	GWC-3R	5.28	4.31	3/17/2020	5.03	No	9	n/a	n/a	0	n/a	0.03619	NP (normality) 1 of 2	
pH (S.U.)	GWC-4R	6.245	4.827	3/18/2020	5.58	No	10	5.536	0.2783	0	None	0.0006268	Param 1 of 2	
pH (S.U.)	GWC-5R	5.711	4.765	3/18/2020	4.88	No	9	5.238	0.1758	0	None	0.0006268	Param 1 of 2	
pH (S.U.)	GWC-6R	6.687	5.169	3/17/2020	5.97	No	19	5.928	0.3559	0	None	0.0006268	Param 1 of 2	

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/7/2020, 10:35 AM

Constituent	Well	Upper Lim.	Lower Lim	Date	Observ.	Sig.	Bq	NBq	Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Boron (mg/L)	GWC-4R	0.04	n/a	3/18/2020	5.4	Yes	12	n/a	n/a	58.33	n/a	n/a	0.009156	NP (NDs) 1 of 2
Calcium (mg/L)	GWC-1R	28.94	n/a	3/17/2020	36.7	Yes	12	14.93	5.959	8.333	None	0.001254	Param 1 of 2	
Calcium (mg/L)	GWC-2R	28.94	n/a	3/18/2020	34.5	Yes	12	14.93	5.959	8.333	None	0.001254	Param 1 of 2	
Calcium (mg/L)	GWC-4R	28.94	n/a	3/18/2020	76.6	Yes	12	14.93	5.959	8.333	None	0.001254	Param 1 of 2	
Calcium (mg/L)	GWC-5R	28.94	n/a	3/18/2020	149	Yes	12	14.93	5.959	8.333	None	0.001254	Param 1 of 2	
Calcium (mg/L)	GWC-6R	28.94	n/a	3/17/2020	66.8	Yes	12	14.93	5.959	8.333	None	0.001254	Param 1 of 2	
Chloride (mg/L)	GWC-1R	5.252	n/a	3/17/2020	15.5	Yes	12	4.242	0.4295	0	None	0.001254	Param 1 of 2	
Chloride (mg/L)	GWC-2R	5.252	n/a	3/18/2020	11.7	Yes	12	4.242	0.4295	0	None	0.001254	Param 1 of 2	
Chloride (mg/L)	GWC-4R	5.252	n/a	3/18/2020	233	Yes	12	4.242	0.4295	0	None	0.001254	Param 1 of 2	
Sulfate (mg/L)	GWC-1R	130.2	n/a	3/17/2020	145	Yes	12	62.65	28.73	0	None	0.001254	Param 1 of 2	
Sulfate (mg/L)	GWC-2R	130.2	n/a	3/18/2020	200	Yes	12	62.65	28.73	0	None	0.001254	Param 1 of 2	
Sulfate (mg/L)	GWC-4R	130.2	n/a	3/18/2020	199	Yes	12	62.65	28.73	0	None	0.001254	Param 1 of 2	
Sulfate (mg/L)	GWC-5R	130.2	n/a	3/18/2020	960	Yes	12	62.65	28.73	0	None	0.001254	Param 1 of 2	
Sulfate (mg/L)	GWC-6R	130.2	n/a	3/17/2020	303	Yes	12	62.65	28.73	0	None	0.001254	Param 1 of 2	
TDS (mg/L)	GWC-1R	299.4	n/a	3/17/2020	306	Yes	12	177.8	51.74	0	None	0.001254	Param 1 of 2	
TDS (mg/L)	GWC-2R	299.4	n/a	3/18/2020	351	Yes	12	177.8	51.74	0	None	0.001254	Param 1 of 2	
TDS (mg/L)	GWC-4R	299.4	n/a	3/18/2020	703	Yes	12	177.8	51.74	0	None	0.001254	Param 1 of 2	
TDS (mg/L)	GWC-5R	299.4	n/a	3/18/2020	1520	Yes	12	177.8	51.74	0	None	0.001254	Param 1 of 2	
TDS (mg/L)	GWC-6R	299.4	n/a	3/17/2020	588	Yes	12	177.8	51.74	0	None	0.001254	Param 1 of 2	

Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/7/2020, 10:35 AM

Constituent	Well	Upper Lim.	Lower Lim	Date	Observ.	Sig.	Bq	NBq	Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Boron (mg/L)	GWC-1R	0.04	n/a	3/17/2020	0.092	No	12	n/a	n/a	n/a	58.33	n/a	0.009156	NP (NDs) 1 of 2
Boron (mg/L)	GWC-2R	0.04	n/a	3/18/2020	0.026	No	12	n/a	n/a	n/a	58.33	n/a	0.009156	NP (NDs) 1 of 2
Boron (mg/L)	GWC-3R	0.04	n/a	3/17/2020	0.0099	No	12	n/a	n/a	n/a	58.33	n/a	0.009156	NP (NDs) 1 of 2
Boron (mg/L)	GWC-4R	0.04	n/a	3/18/2020	5.4	Yes	12	n/a	n/a	n/a	58.33	n/a	0.009156	NP (NDs) 1 of 2
Boron (mg/L)	GWC-5R	0.04	n/a	3/18/2020	0.034	No	12	n/a	n/a	n/a	58.33	n/a	0.009156	NP (NDs) 1 of 2
Boron (mg/L)	GWC-6R	0.04	n/a	3/17/2020	0.04ND	No	12	n/a	n/a	n/a	58.33	n/a	0.009156	NP (NDs) 1 of 2
Calcium (mg/L)	GWC-1R	28.94	n/a	3/17/2020	36.7	Yes	12	14.93	5.959	8.333	None	None	0.001254	Param 1 of 2
Calcium (mg/L)	GWC-2R	28.94	n/a	3/18/2020	34.5	Yes	12	14.93	5.959	8.333	None	None	0.001254	Param 1 of 2
Calcium (mg/L)	GWC-3R	28.94	n/a	3/17/2020	20.3	No	12	14.93	5.959	8.333	None	None	0.001254	Param 1 of 2
Calcium (mg/L)	GWC-4R	28.94	n/a	3/18/2020	76.6	Yes	12	14.93	5.959	8.333	None	None	0.001254	Param 1 of 2
Calcium (mg/L)	GWC-5R	28.94	n/a	3/18/2020	149	Yes	12	14.93	5.959	8.333	None	None	0.001254	Param 1 of 2
Calcium (mg/L)	GWC-6R	28.94	n/a	3/17/2020	66.8	Yes	12	14.93	5.959	8.333	None	None	0.001254	Param 1 of 2
Chloride (mg/L)	GWC-1R	5.252	n/a	3/17/2020	15.5	Yes	12	4.242	0.4295	0	None	None	0.001254	Param 1 of 2
Chloride (mg/L)	GWC-2R	5.252	n/a	3/18/2020	11.7	Yes	12	4.242	0.4295	0	None	None	0.001254	Param 1 of 2
Chloride (mg/L)	GWC-3R	5.252	n/a	3/17/2020	5.2	No	12	4.242	0.4295	0	None	None	0.001254	Param 1 of 2
Chloride (mg/L)	GWC-4R	5.252	n/a	3/18/2020	233	Yes	12	4.242	0.4295	0	None	None	0.001254	Param 1 of 2
Chloride (mg/L)	GWC-5R	5.252	n/a	3/18/2020	3.8	No	12	4.242	0.4295	0	None	None	0.001254	Param 1 of 2
Chloride (mg/L)	GWC-6R	5.252	n/a	3/17/2020	4.4	No	12	4.242	0.4295	0	None	None	0.001254	Param 1 of 2
Sulfate (mg/L)	GWC-1R	130.2	n/a	3/17/2020	145	Yes	12	62.65	28.73	0	None	None	0.001254	Param 1 of 2
Sulfate (mg/L)	GWC-2R	130.2	n/a	3/18/2020	200	Yes	12	62.65	28.73	0	None	None	0.001254	Param 1 of 2
Sulfate (mg/L)	GWC-3R	130.2	n/a	3/17/2020	95.2	No	12	62.65	28.73	0	None	None	0.001254	Param 1 of 2
Sulfate (mg/L)	GWC-4R	130.2	n/a	3/18/2020	199	Yes	12	62.65	28.73	0	None	None	0.001254	Param 1 of 2
Sulfate (mg/L)	GWC-5R	130.2	n/a	3/18/2020	960	Yes	12	62.65	28.73	0	None	None	0.001254	Param 1 of 2
Sulfate (mg/L)	GWC-6R	130.2	n/a	3/17/2020	303	Yes	12	62.65	28.73	0	None	None	0.001254	Param 1 of 2
TDS (mg/L)	GWC-1R	299.4	n/a	3/17/2020	306	Yes	12	177.8	51.74	0	None	None	0.001254	Param 1 of 2
TDS (mg/L)	GWC-2R	299.4	n/a	3/18/2020	351	Yes	12	177.8	51.74	0	None	None	0.001254	Param 1 of 2
TDS (mg/L)	GWC-3R	299.4	n/a	3/17/2020	175	No	12	177.8	51.74	0	None	None	0.001254	Param 1 of 2
TDS (mg/L)	GWC-4R	299.4	n/a	3/18/2020	703	Yes	12	177.8	51.74	0	None	None	0.001254	Param 1 of 2
TDS (mg/L)	GWC-5R	299.4	n/a	3/18/2020	1520	Yes	12	177.8	51.74	0	None	None	0.001254	Param 1 of 2
TDS (mg/L)	GWC-6R	299.4	n/a	3/17/2020	588	Yes	12	177.8	51.74	0	None	None	0.001254	Param 1 of 2

Appendix III Trend Tests - PL Exceedances - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/7/2020, 10:53 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Calcium (mg/L)	GWA-2 (bg)	3.705	38	35	Yes	12	8.333	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-2 (bg)	18.82	41	35	Yes	12	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWC-1R	-89.3	-38	-35	Yes	12	0	n/a	n/a	0.02	NP
TDS (mg/L)	GWC-1R	-91.88	-36	-35	Yes	12	0	n/a	n/a	0.02	NP

Appendix III Trend Tests - PL Exceedances - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/7/2020, 10:53 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	GWA-2 (bg)	0	9	35	No	12	58.33	n/a	n/a	0.02	NP
Boron (mg/L)	GWC-4R	-0.02011	-6	-35	No	12	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-2 (bg)	3.705	38	35	Yes	12	8.333	n/a	n/a	0.02	NP
Calcium (mg/L)	GWC-1R	-10.28	-30	-35	No	12	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWC-2R	4.373	26	35	No	12	8.333	n/a	n/a	0.02	NP
Calcium (mg/L)	GWC-4R	0.673	6	35	No	12	8.333	n/a	n/a	0.02	NP
Calcium (mg/L)	GWC-5R	3.454	8	35	No	12	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWC-6R	18.73	24	35	No	12	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-2 (bg)	0.2398	32	35	No	12	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWC-1R	2.584	14	35	No	12	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWC-2R	0.9514	13	35	No	12	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWC-4R	-2.088	-8	-35	No	12	0	n/a	n/a	0.02	NP
pH (S.U.)	GWA-2 (bg)	-0.02143	-58	-101	No	25	0	n/a	n/a	0.02	NP
pH (S.U.)	GWC-1R	0.06605	20	39	No	13	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-2 (bg)	18.82	41	35	Yes	12	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWC-1R	-89.3	-38	-35	Yes	12	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWC-2R	8.328	8	35	No	12	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWC-4R	5.97	9	35	No	12	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWC-5R	-17.46	-8	-35	No	12	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWC-6R	96.83	18	35	No	12	0	n/a	n/a	0.02	NP
TDS (mg/L)	GWA-2 (bg)	12.21	15	35	No	12	0	n/a	n/a	0.02	NP
TDS (mg/L)	GWC-1R	-91.88	-36	-35	Yes	12	0	n/a	n/a	0.02	NP
TDS (mg/L)	GWC-2R	49.21	20	35	No	12	0	n/a	n/a	0.02	NP
TDS (mg/L)	GWC-4R	3.555	1	35	No	12	0	n/a	n/a	0.02	NP
TDS (mg/L)	GWC-5R	-5.102	0	35	No	12	0	n/a	n/a	0.02	NP
TDS (mg/L)	GWC-6R	142.4	22	35	No	12	0	n/a	n/a	0.02	NP

Tolerance Limit Summary Table

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/12/2020, 7:22 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	0.0030	n/a	n/a	n/a	n/a	32	n/a	n/a	96.88	n/a	n/a	0.1937	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0050	n/a	n/a	n/a	n/a	32	n/a	n/a	93.75	n/a	n/a	0.1937	NP Inter(NDs)
Barium (mg/L)	n/a	0.079	n/a	n/a	n/a	n/a	32	0.05107	0.01255	0	None	No	0.05	Inter
Beryllium (mg/L)	n/a	0.0030	n/a	n/a	n/a	n/a	32	n/a	n/a	100	n/a	n/a	0.1937	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0010	n/a	n/a	n/a	n/a	32	n/a	n/a	100	n/a	n/a	0.1937	NP Inter(NDs)
Chromium (mg/L)	n/a	0.010	n/a	n/a	n/a	n/a	32	n/a	n/a	75	n/a	n/a	0.1937	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.0068	n/a	n/a	n/a	n/a	32	0.00327	0.001613	34.38	Kaplan-Meier	No	0.05	Inter
Combined Radium 226 + 228 (pCi/L)	n/a	2.4	n/a	n/a	n/a	n/a	11	0.9806	0.5181	0	None	No	0.05	Inter
Fluoride (mg/L)	n/a	0.22	n/a	n/a	n/a	n/a	13	0.1102	0.04015	7.692	None	No	0.05	Inter
Lead (mg/L)	n/a	0.0050	n/a	n/a	n/a	n/a	32	n/a	n/a	100	n/a	n/a	0.1937	NP Inter(NDs)
Lithium (mg/L)	n/a	0.030	n/a	n/a	n/a	n/a	11	n/a	n/a	54.55	n/a	n/a	0.5688	NP Inter(NDs)
Mercury (mg/L)	n/a	0.00020	n/a	n/a	n/a	n/a	31	n/a	n/a	93.55	n/a	n/a	0.2039	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.010	n/a	n/a	n/a	n/a	9	n/a	n/a	100	n/a	n/a	0.6302	NP Inter(NDs)
Selenium (mg/L)	n/a	0.010	n/a	n/a	n/a	n/a	32	n/a	n/a	100	n/a	n/a	0.1937	NP Inter(NDs)
Thallium (mg/L)	n/a	0.0010	n/a	n/a	n/a	n/a	31	n/a	n/a	87.1	n/a	n/a	0.2039	NP Inter(NDs)

YATES LANDFILL GYPSUM STACK GWPS - FEDERAL				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.079	2
Beryllium, Total (mg/L)	0.004		0.003	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005
Chromium, Total (mg/L)	0.1		0.01	0.1
Cobalt, Total (mg/L)		0.006	0.0068	0.0068
Combined Radium, Total (pCi/L)	5		2.4	5
Fluoride, Total (mg/L)	4		0.22	4
Lead, Total (mg/L)		0.015	0.005	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)		0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.01	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Grey cell indicates Background Limit is higher than MCL or CCR-Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

YATES LANDFILL GYPSUM STACK GWPS - STATE				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.079	2
Beryllium, Total (mg/L)	0.004		0.003	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005
Chromium, Total (mg/L)	0.1		0.01	0.1
Cobalt, Total (mg/L)		0.006	0.0068	0.0068
Combined Radium, Total (pCi/L)	5		2.4	5
Fluoride, Total (mg/L)	4		0.22	4
Lead, Total (mg/L)		0.015	0.005	0.005
Lithium, Total (mg/L)		0.04	0.03	0.03
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)		0.1	0.01	0.01
Selenium, Total (mg/L)	0.05		0.01	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Grey cell indicates Background Limit is higher than MCL or CCR-Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

Federal Confidence Intervals - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/12/2020, 2:14 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig. N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Cobalt (mg/L)	GWC-2R	0.02831	0.01946	0.0068	Yes 28	0.02389	0.009476	3.571	None	No	0.01	Param.

Federal Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/12/2020, 2:14 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWC-4R	0.003	0.0014	0.006	No 28	0.002846	0.0005866	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-5R	0.003	0.00054	0.006	No 23	0.002893	0.0005129	95.65	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-1R	0.005	0.0009	0.01	No 23	0.004428	0.001512	86.96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-2R	0.005	0.00075	0.01	No 28	0.004848	0.0008032	96.43	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-3R	0.005	0.0016	0.01	No 23	0.004513	0.001296	86.96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-4R	0.005	0.00059	0.01	No 28	0.004677	0.001186	92.86	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-5R	0.005	0.0011	0.01	No 23	0.003319	0.001975	56.52	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-6R	0.005	0.0023	0.01	No 29	0.003889	0.001853	72.41	None	No	0.01	NP (NDs)
Barium (mg/L)	GWC-1R	0.05516	0.03584	2	No 23	0.0455	0.01847	0	None	No	0.01	Param.
Barium (mg/L)	GWC-2R	0.066	0.0481	2	No 28	0.06326	0.02353	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-3R	0.04038	0.02146	2	No 23	0.03366	0.0246	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	GWC-4R	0.03964	0.02393	2	No 28	0.03347	0.01837	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-5R	0.0392	0.0222	2	No 23	0.0322	0.01714	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-6R	0.05844	0.038	2	No 29	0.04822	0.02231	0	None	No	0.01	Param.
Beryllium (mg/L)	GWC-1R	0.003	0.00008	0.004	No 23	0.001741	0.001468	56.52	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-2R	0.003	0.00017	0.004	No 28	0.002484	0.001127	82.14	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-3R	0.003	0.00038	0.004	No 23	0.001253	0.001202	30.43	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-5R	0.003	0.0004	0.004	No 23	0.001587	0.001217	30.43	None	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-1R	0.001	0.00008	0.005	No 23	0.00096	0.0001918	95.65	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-2R	0.001	0.0001	0.005	No 28	0.0009357	0.000236	92.86	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-3R	0.001	0.00037	0.005	No 23	0.0008026	0.0003429	73.91	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-4R	0.001	0.0001	0.005	No 28	0.0009679	0.0001701	96.43	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-5R	0.0008002	0.0004938	0.005	No 23	0.0007935	0.0002979	34.78	Kaplan-Meier	x^2	0.01	Param.
Chromium (mg/L)	GWC-1R	0.01	0.001	0.1	No 23	0.005783	0.004519	52.17	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-2R	0.01	0.0017	0.1	No 28	0.008696	0.003258	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-3R	0.01	0.0012	0.1	No 23	0.003997	0.004076	30.43	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-4R	0.01	0.0062	0.1	No 28	0.008228	0.003584	78.57	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-5R	0.0029	0.0018	0.1	No 23	0.003861	0.003329	21.74	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-6R	0.01	0.0014	0.1	No 29	0.004751	0.004192	37.93	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-1R	0.005	0.00079	0.0068	No 23	0.003396	0.00324	43.48	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-2R	0.02831	0.01946	0.0068	Yes 28	0.02389	0.009476	3.571	None	No	0.01	Param.
Cobalt (mg/L)	GWC-3R	0.01	0.0016	0.0068	No 23	0.00533	0.001784	86.96	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-4R	0.003312	0.001558	0.0068	No 28	0.003435	0.002063	32.14	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	GWC-5R	0.005	0.00044	0.0068	No 23	0.004395	0.001597	86.96	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-6R	0.005	0.0014	0.0068	No 29	0.004876	0.0006685	96.55	Kaplan-Meier	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GWC-1R	1.175	0.4893	5	No 10	0.8323	0.3844	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2R	1.456	0.4584	5	No 10	0.9574	0.5592	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-3R	1.192	0.1061	5	No 10	0.668	0.8093	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-4R	0.7375	0.1498	5	No 10	0.4437	0.3293	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-5R	1.107	0.2268	5	No 10	0.6667	0.4931	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-6R	1.373	0.3586	5	No 10	0.8764	0.6526	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GWC-1R	0.3	0.05	4	No 13	0.2238	0.119	69.23	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-2R	0.58	0.04	4	No 13	0.2446	0.1554	61.54	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-3R	0.58	0.037	4	No 13	0.2213	0.1599	46.15	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-4R	0.3	0.08	4	No 13	0.2369	0.1012	69.23	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-5R	0.35	0.035	4	No 13	0.2473	0.1249	61.54	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-6R	0.3	0.05	4	No 13	0.24	0.1108	69.23	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-1R	0.005	0.000052	0.015	No 23	0.004785	0.001032	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-2R	0.005	0.0001	0.015	No 28	0.004296	0.001756	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-3R	0.005	0.00015	0.015	No 23	0.004148	0.001898	82.61	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-5R	0.005	0.000079	0.015	No 23	0.004357	0.001698	86.96	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-1R	0.03	0.001	0.04	No 11	0.009258	0.01333	27.27	None	No	0.006	NP (normality)
Lithium (mg/L)	GWC-2R	0.03	0.0035	0.04	No 11	0.01105	0.01219	27.27	None	No	0.006	NP (normality)
Lithium (mg/L)	GWC-3R	0.03	0.03	0.04	No 11	0.02738	0.008684	90.91	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-4R	0.03	0.0013	0.04	No 11	0.02475	0.01168	81.82	None	No	0.006	NP (NDs)

Federal Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/12/2020, 2:14 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig. N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Lithium (mg/L)	GWC-5R	0.03	0.0015	0.04	No 11	0.02224	0.0133	72.73	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-6R	0.03	0.002	0.04	No 11	0.01261	0.01382	36.36	None	No	0.006	NP (normality)
Selenium (mg/L)	GWC-1R	0.01	0.003	0.05	No 23	0.007226	0.003638	56.52	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-2R	0.01	0.0029	0.05	No 28	0.006821	0.003759	57.14	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-3R	0.01	0.0038	0.05	No 23	0.007065	0.003436	47.83	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-4R	0.008241	0.004554	0.05	No 28	0.007971	0.003786	28.57	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	GWC-5R	0.02662	0.01683	0.05	No 23	0.02173	0.009358	4.348	None	No	0.01	Param.
Selenium (mg/L)	GWC-6R	0.01	0.0039	0.05	No 29	0.007252	0.003422	58.62	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-2R	0.001	0.00007	0.002	No 26	0.0009642	0.0001824	96.15	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-5R	0.001	0.000053	0.002	No 22	0.000957	0.0002019	95.45	None	No	0.01	NP (NDs)

State Confidence Intervals - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/12/2020, 2:09 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig. N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Cobalt (mg/L)	GWC-2R	0.02831	0.01946	0.0068	Yes 28	0.02389	0.009476	3.571	None	No	0.01	Param.

State Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/12/2020, 2:09 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWC-4R	0.003	0.0014	0.006	No 28	0.002846	0.0005866	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-5R	0.003	0.00054	0.006	No 23	0.002893	0.0005129	95.65	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-1R	0.005	0.0009	0.01	No 23	0.004428	0.001512	86.96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-2R	0.005	0.00075	0.01	No 28	0.004848	0.0008032	96.43	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-3R	0.005	0.0016	0.01	No 23	0.004513	0.001296	86.96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-4R	0.005	0.00059	0.01	No 28	0.004677	0.001186	92.86	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-5R	0.005	0.0011	0.01	No 23	0.003319	0.001975	56.52	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-6R	0.005	0.0023	0.01	No 29	0.003889	0.001853	72.41	None	No	0.01	NP (NDs)
Barium (mg/L)	GWC-1R	0.05516	0.03584	2	No 23	0.0455	0.01847	0	None	No	0.01	Param.
Barium (mg/L)	GWC-2R	0.066	0.0481	2	No 28	0.06326	0.02353	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-3R	0.04038	0.02146	2	No 23	0.03366	0.0246	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	GWC-4R	0.03964	0.02393	2	No 28	0.03347	0.01837	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-5R	0.0392	0.0222	2	No 23	0.0322	0.01714	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-6R	0.05844	0.038	2	No 29	0.04822	0.02231	0	None	No	0.01	Param.
Beryllium (mg/L)	GWC-1R	0.003	0.00008	0.004	No 23	0.001741	0.001468	56.52	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-2R	0.003	0.00017	0.004	No 28	0.002484	0.001127	82.14	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-3R	0.003	0.00038	0.004	No 23	0.001253	0.001202	30.43	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-5R	0.003	0.0004	0.004	No 23	0.001587	0.001217	30.43	None	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-1R	0.001	0.00008	0.005	No 23	0.00096	0.0001918	95.65	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-2R	0.001	0.0001	0.005	No 28	0.0009357	0.000236	92.86	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-3R	0.001	0.00037	0.005	No 23	0.0008026	0.0003429	73.91	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-4R	0.001	0.0001	0.005	No 28	0.0009679	0.0001701	96.43	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-5R	0.0008002	0.0004938	0.005	No 23	0.0007935	0.0002979	34.78	Kaplan-Meier	x^2	0.01	Param.
Chromium (mg/L)	GWC-1R	0.01	0.001	0.1	No 23	0.005783	0.004519	52.17	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-2R	0.01	0.0017	0.1	No 28	0.008696	0.003258	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-3R	0.01	0.0012	0.1	No 23	0.003997	0.004076	30.43	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-4R	0.01	0.0062	0.1	No 28	0.008228	0.003584	78.57	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-5R	0.0029	0.0018	0.1	No 23	0.003861	0.003329	21.74	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-6R	0.01	0.0014	0.1	No 29	0.004751	0.004192	37.93	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-1R	0.005	0.00079	0.0068	No 23	0.003396	0.00324	43.48	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-2R	0.02831	0.01946	0.0068	Yes 28	0.02389	0.009476	3.571	None	No	0.01	Param.
Cobalt (mg/L)	GWC-3R	0.01	0.0016	0.0068	No 23	0.00533	0.001784	86.96	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-4R	0.003312	0.001558	0.0068	No 28	0.003435	0.002063	32.14	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	GWC-5R	0.005	0.00044	0.0068	No 23	0.004395	0.001597	86.96	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-6R	0.005	0.0014	0.0068	No 29	0.004876	0.0006685	96.55	Kaplan-Meier	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GWC-1R	1.175	0.4893	5	No 10	0.8323	0.3844	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2R	1.456	0.4584	5	No 10	0.9574	0.5592	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-3R	1.192	0.1061	5	No 10	0.668	0.8093	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-4R	0.7375	0.1498	5	No 10	0.4437	0.3293	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-5R	1.107	0.2268	5	No 10	0.6667	0.4931	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-6R	1.373	0.3586	5	No 10	0.8764	0.6526	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GWC-1R	0.3	0.05	4	No 13	0.2238	0.119	69.23	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-2R	0.58	0.04	4	No 13	0.2446	0.1554	61.54	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-3R	0.58	0.037	4	No 13	0.2213	0.1599	46.15	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-4R	0.3	0.08	4	No 13	0.2369	0.1012	69.23	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-5R	0.35	0.035	4	No 13	0.2473	0.1249	61.54	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-6R	0.3	0.05	4	No 13	0.24	0.1108	69.23	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-1R	0.005	0.000052	0.005	No 23	0.004785	0.001032	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-2R	0.005	0.0001	0.005	No 28	0.004296	0.001756	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-3R	0.005	0.00015	0.005	No 23	0.004148	0.001898	82.61	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-5R	0.005	0.000079	0.005	No 23	0.004357	0.001698	86.96	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-1R	0.03	0.001	0.03	No 11	0.009258	0.01333	27.27	None	No	0.006	NP (normality)
Lithium (mg/L)	GWC-2R	0.03	0.0035	0.03	No 11	0.01105	0.01219	27.27	None	No	0.006	NP (normality)
Lithium (mg/L)	GWC-3R	0.03	0.03	0.03	No 11	0.02738	0.008684	90.91	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-4R	0.03	0.0013	0.03	No 11	0.02475	0.01168	81.82	None	No	0.006	NP (NDs)

State Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/12/2020, 2:09 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig. N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Lithium (mg/L)	GWC-5R	0.03	0.0015	0.03	No 11	0.02224	0.0133	72.73	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-6R	0.03	0.002	0.03	No 11	0.01261	0.01382	36.36	None	No	0.006	NP (normality)
Selenium (mg/L)	GWC-1R	0.01	0.003	0.05	No 23	0.007226	0.003638	56.52	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-2R	0.01	0.0029	0.05	No 28	0.006821	0.003759	57.14	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-3R	0.01	0.0038	0.05	No 23	0.007065	0.003436	47.83	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-4R	0.008241	0.004554	0.05	No 28	0.007971	0.003786	28.57	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	GWC-5R	0.02662	0.01683	0.05	No 23	0.02173	0.009358	4.348	None	No	0.01	Param.
Selenium (mg/L)	GWC-6R	0.01	0.0039	0.05	No 29	0.007252	0.003422	58.62	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-2R	0.001	0.00007	0.002	No 26	0.0009642	0.0001824	96.15	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-5R	0.001	0.000053	0.002	No 22	0.000957	0.0002019	95.45	None	No	0.01	NP (NDs)

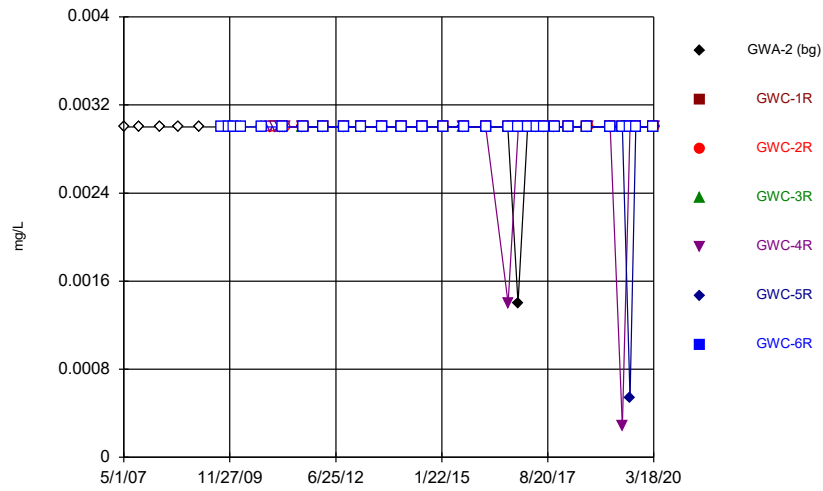
State Parameter Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/21/2020, 12:29 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig. N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Zinc (mg/L)	GWC-5R	0.01391	0.006461	5	No 20	0.01019	0.006557	0	None	No	0.01	Param.

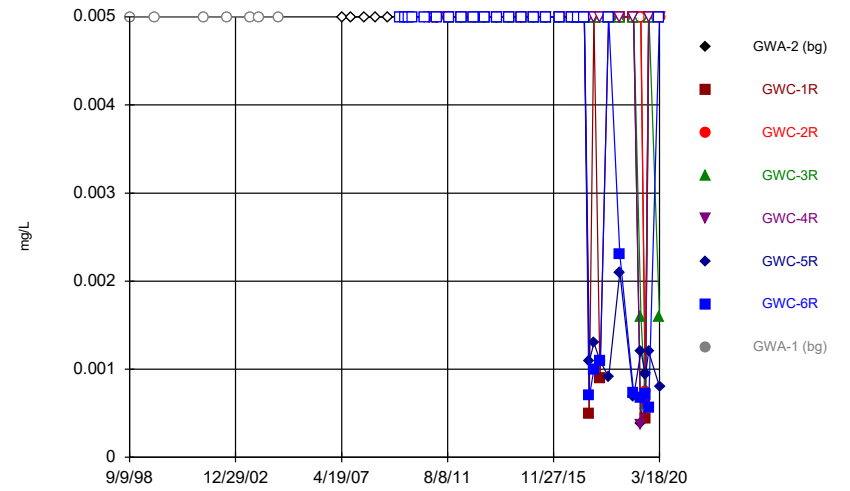
FIGURE A.

Time Series



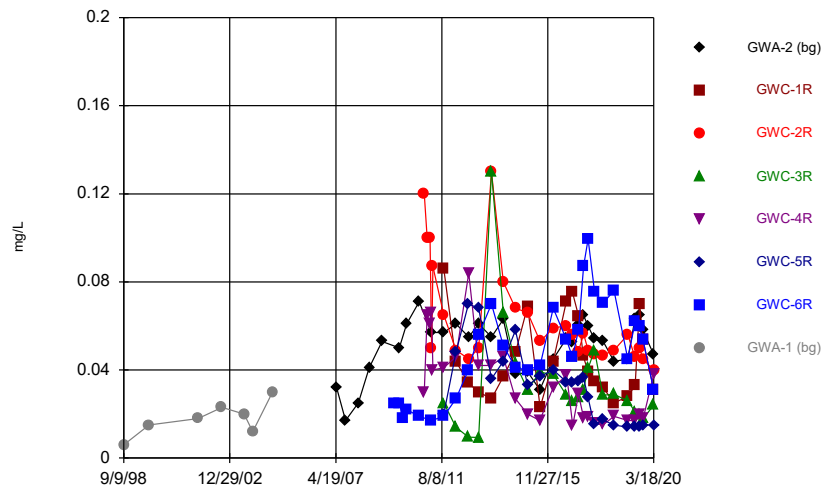
Constituent: Antimony Analysis Run 5/12/2020 1:50 PM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



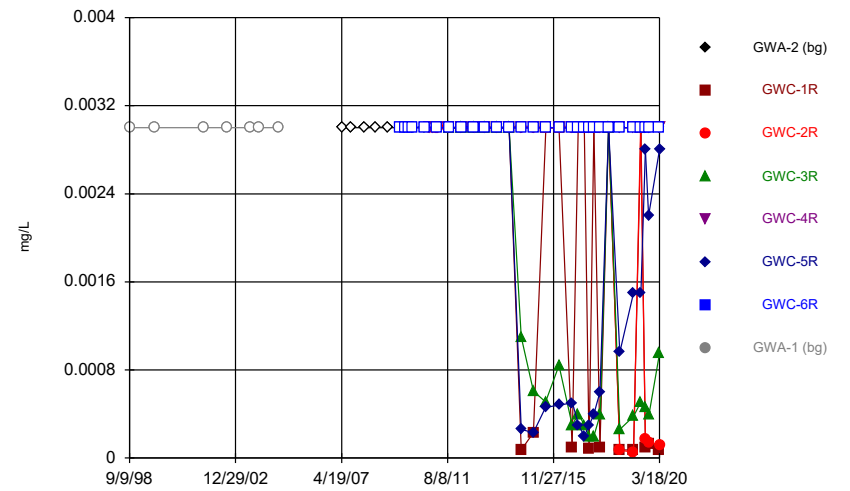
Constituent: Arsenic Analysis Run 5/12/2020 1:50 PM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



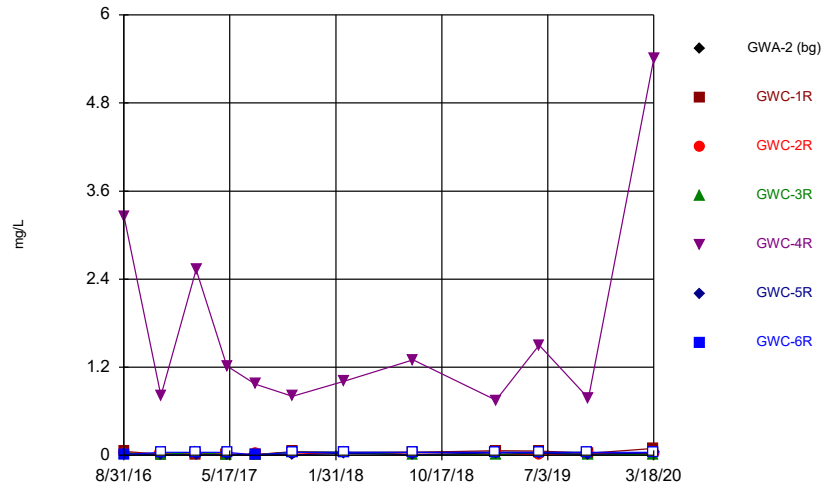
Constituent: Barium Analysis Run 5/12/2020 1:50 PM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



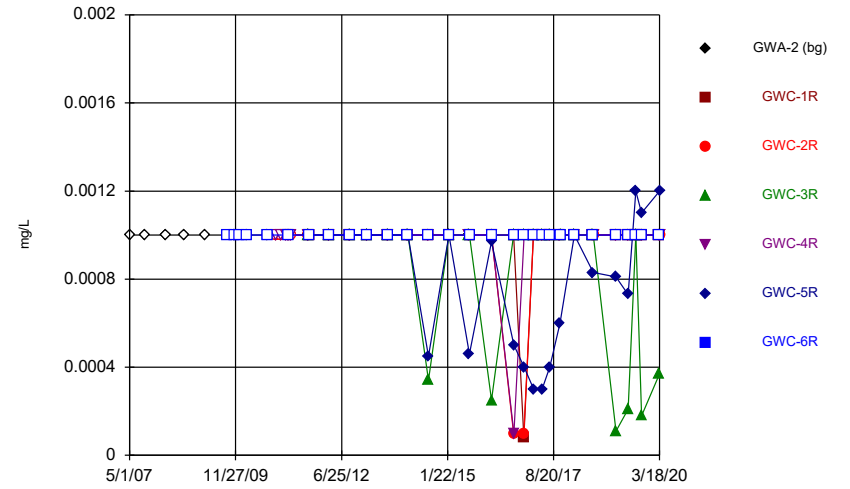
Constituent: Beryllium Analysis Run 5/12/2020 1:50 PM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



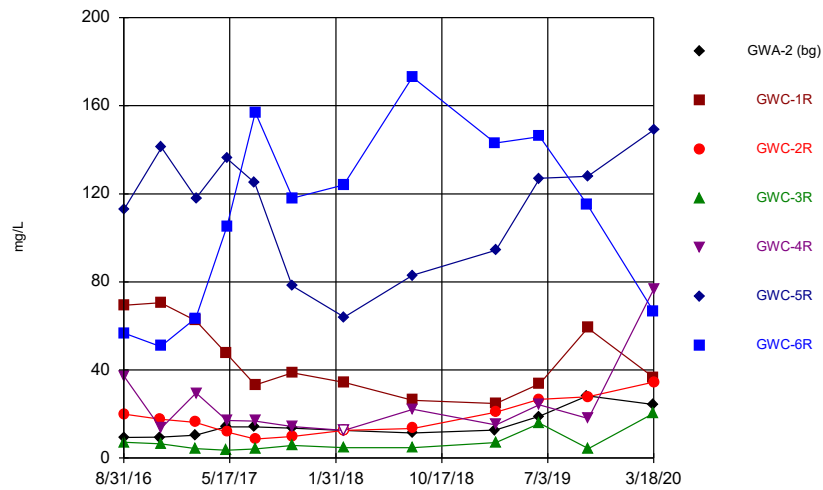
Constituent: Boron Analysis Run 5/12/2020 1:50 PM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



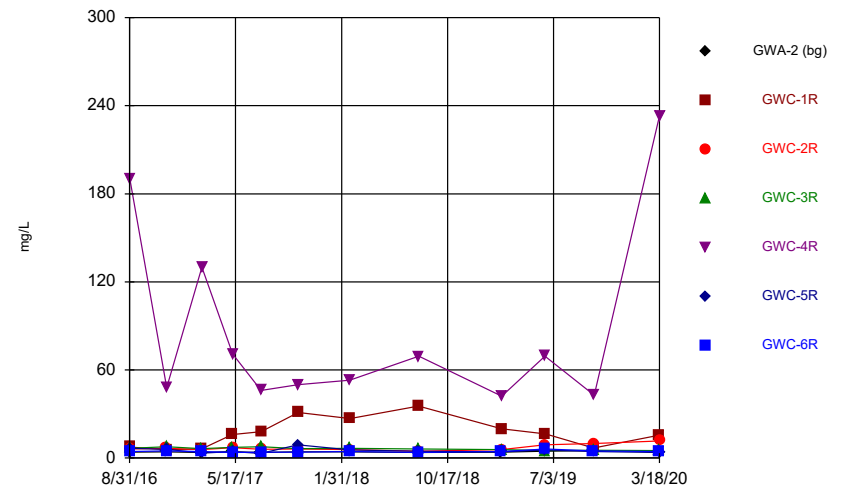
Constituent: Cadmium Analysis Run 5/12/2020 1:50 PM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



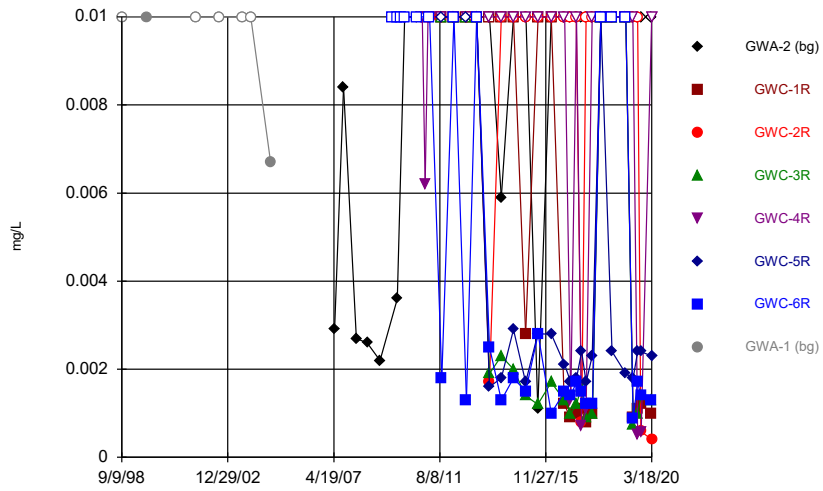
Constituent: Calcium Analysis Run 5/12/2020 1:50 PM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



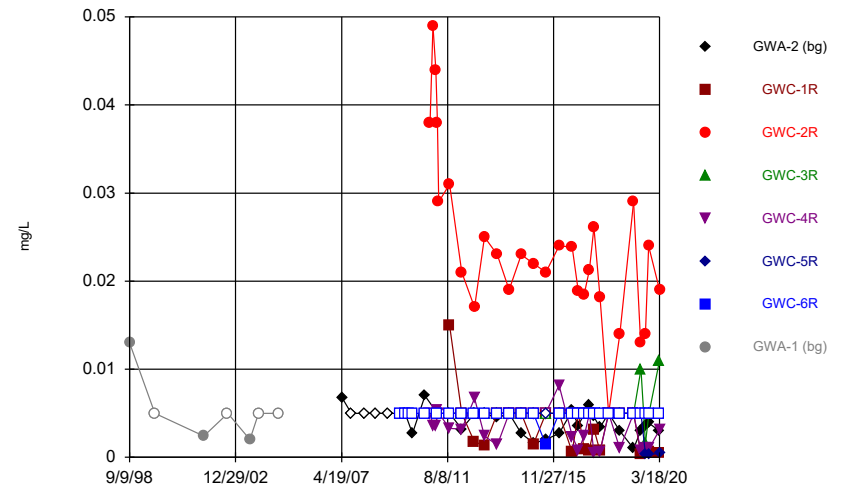
Constituent: Chloride Analysis Run 5/12/2020 1:50 PM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



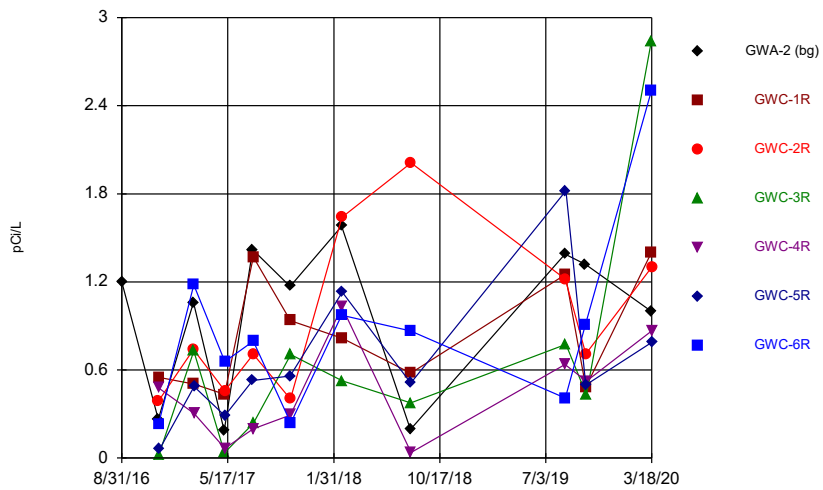
Constituent: Chromium Analysis Run 5/12/2020 1:50 PM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



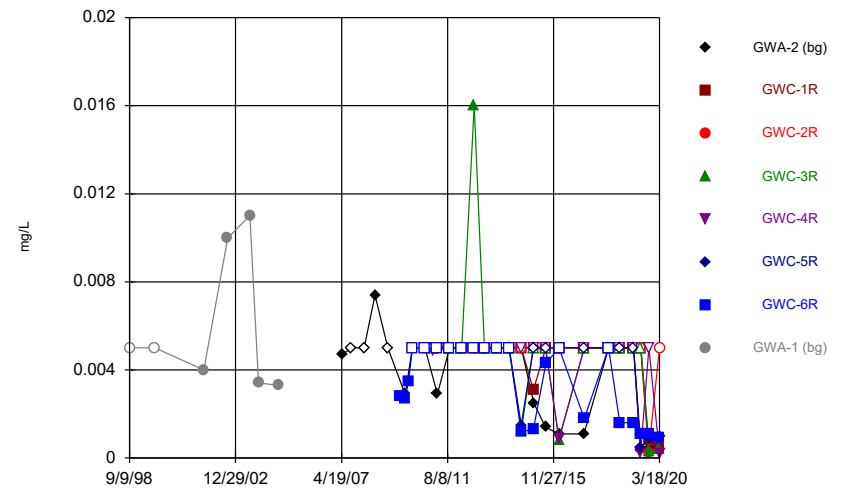
Constituent: Cobalt Analysis Run 5/12/2020 1:50 PM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



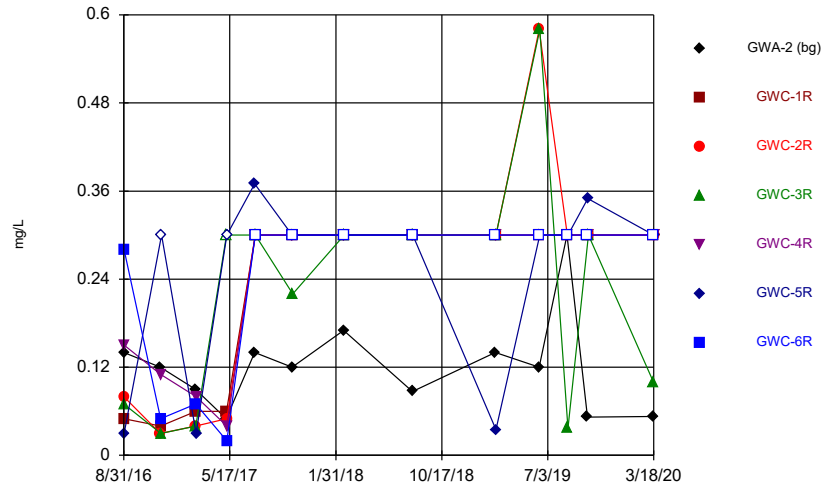
Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 1:50 PM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



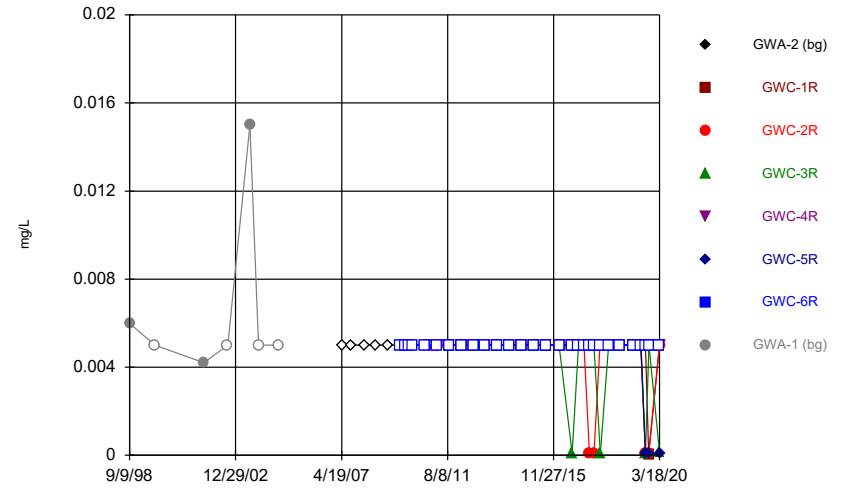
Constituent: Copper Analysis Run 5/12/2020 1:50 PM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



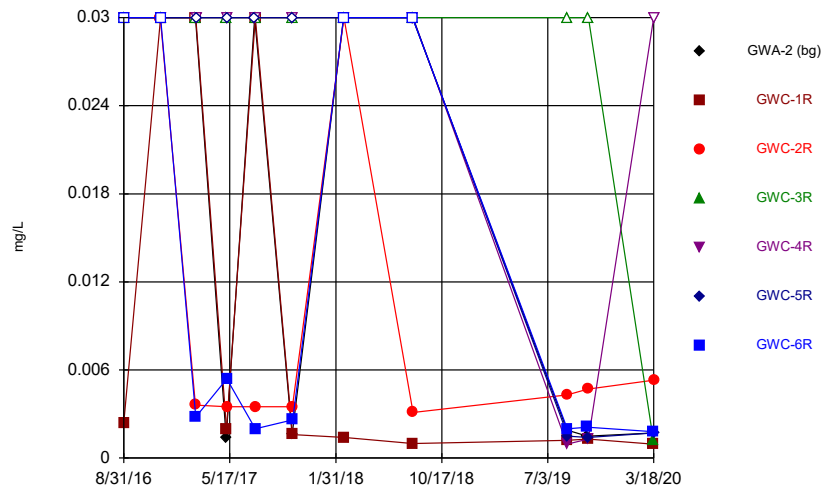
Constituent: Fluoride Analysis Run 5/12/2020 1:50 PM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



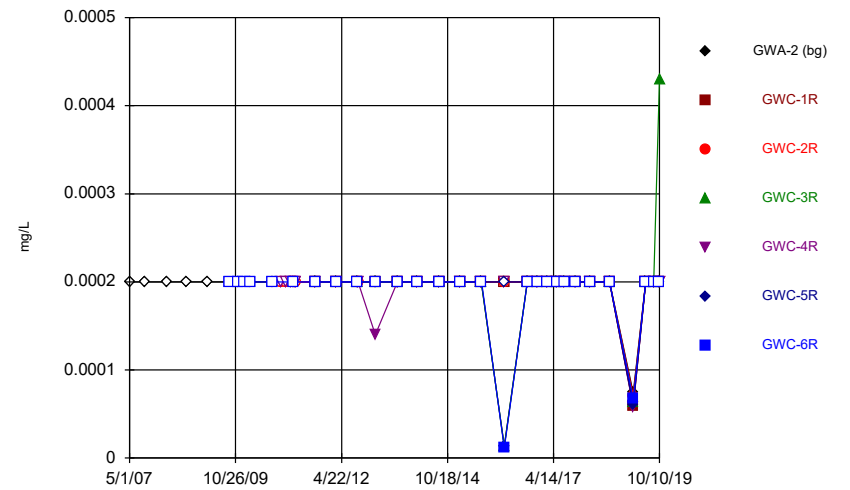
Constituent: Lead Analysis Run 5/12/2020 1:50 PM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



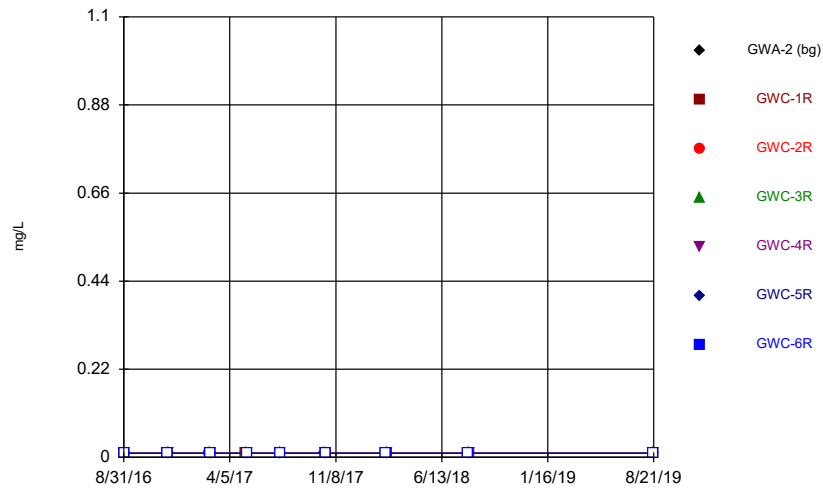
Constituent: Lithium Analysis Run 5/12/2020 1:50 PM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



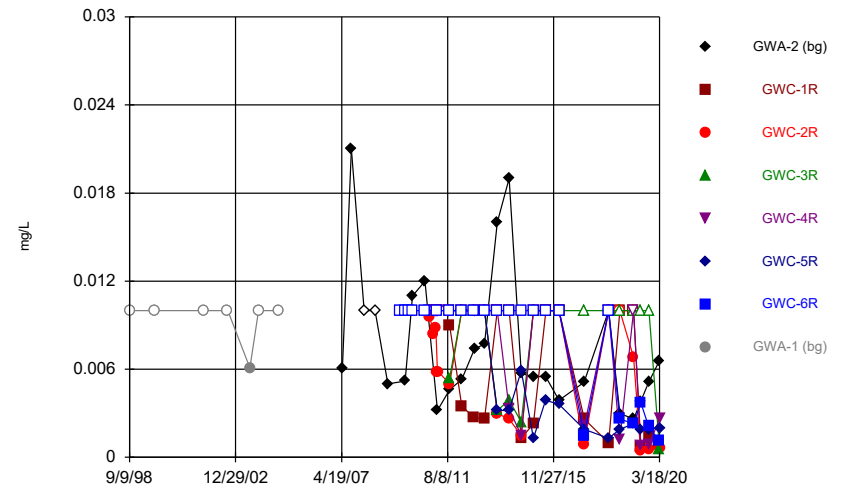
Constituent: Mercury Analysis Run 5/12/2020 1:50 PM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



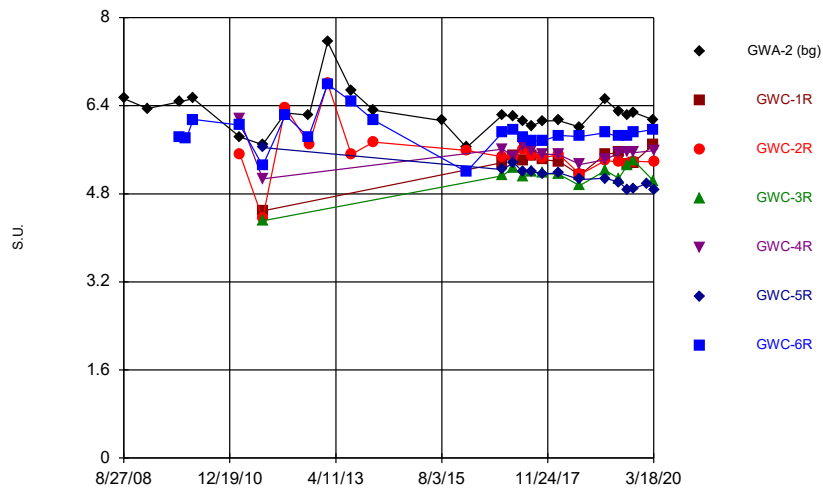
Constituent: Molybdenum Analysis Run 5/12/2020 1:50 PM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



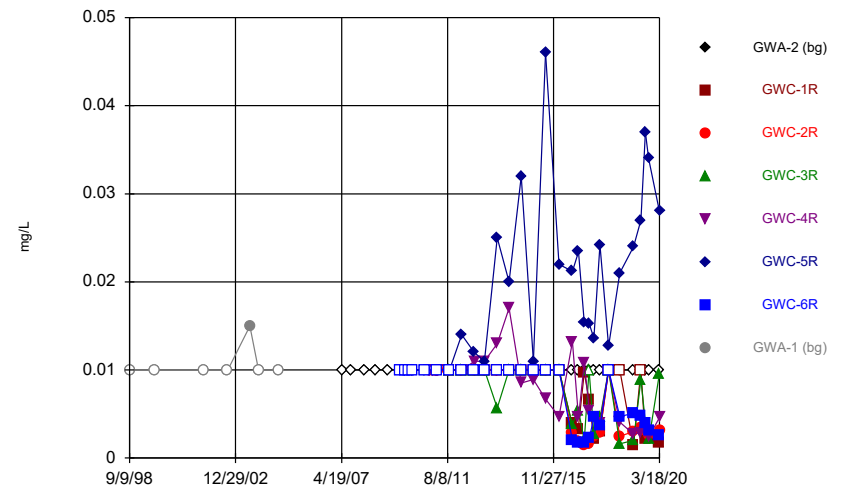
Constituent: Nickel Analysis Run 5/12/2020 1:50 PM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



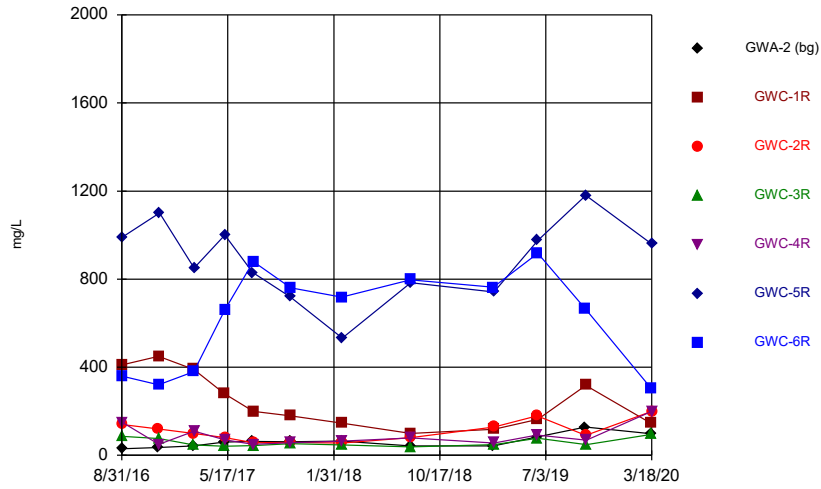
Constituent: pH Analysis Run 5/12/2020 1:50 PM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



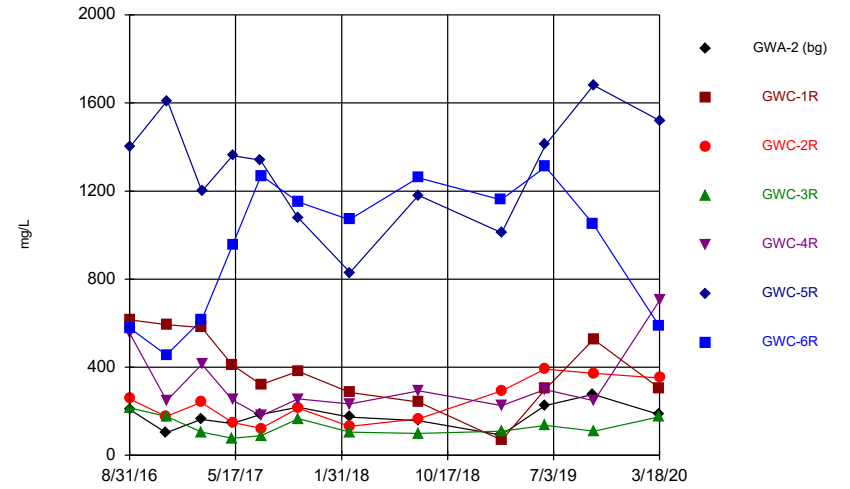
Constituent: Selenium Analysis Run 5/12/2020 1:51 PM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



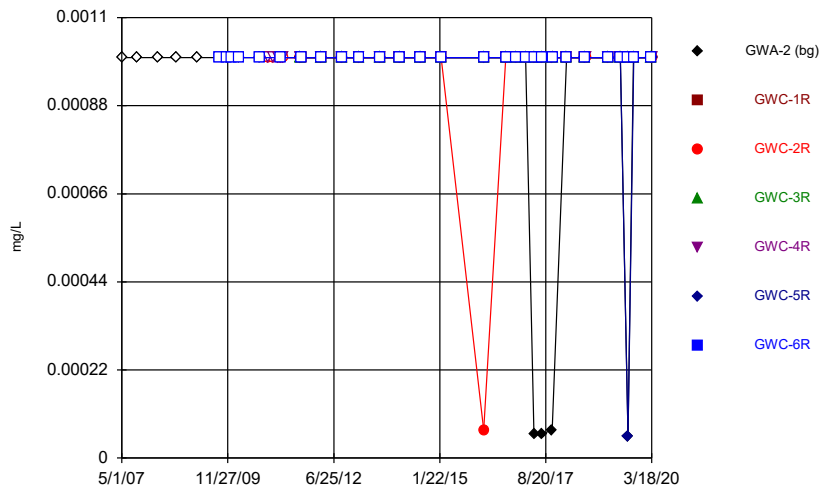
Constituent: Sulfate Analysis Run 5/12/2020 1:51 PM
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



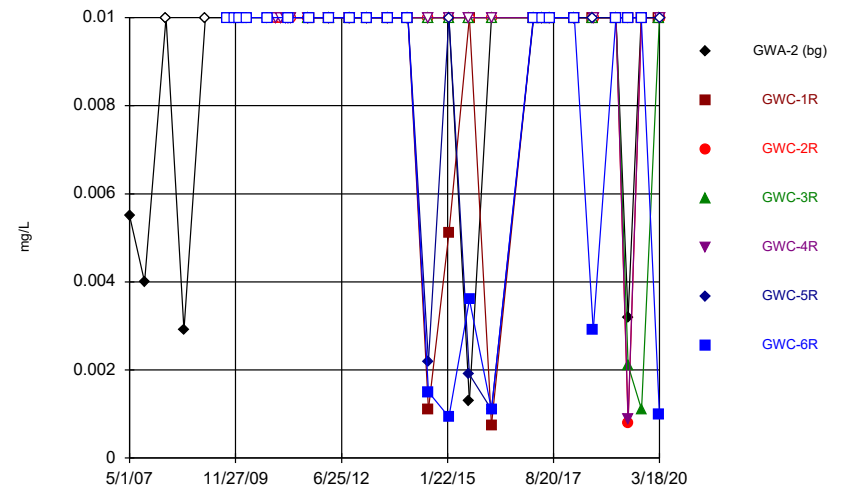
Constituent: TDS Analysis Run 5/12/2020 1:51 PM
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



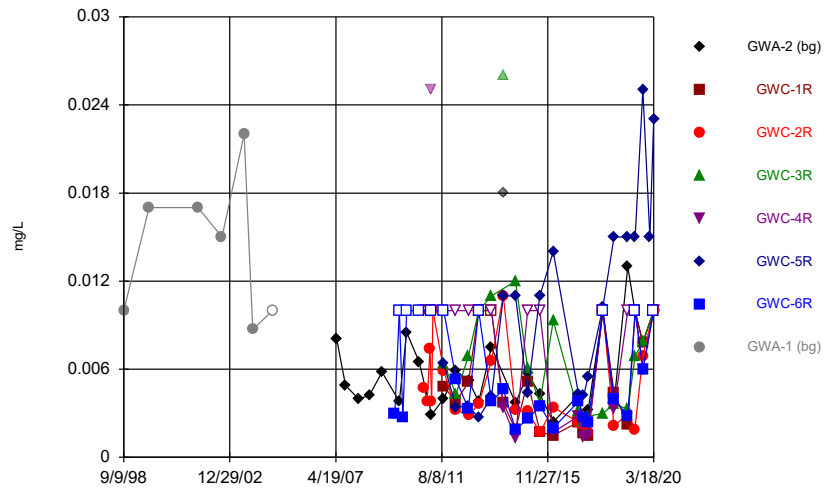
Constituent: Thallium Analysis Run 5/12/2020 1:51 PM
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



Constituent: Vanadium Analysis Run 5/12/2020 1:51 PM
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



Constituent: Zinc Analysis Run 5/12/2020 1:51 PM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/12/2020 1:55 PM
 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 5/12/2020 1:55 PM
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	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/12/2020 1:55 PM
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	GWA-1 (bg)
9/9/1998								<0.005
9/20/1999								<0.005
9/12/2001								<0.005
9/3/2002								<0.005
7/29/2003								<0.005
12/5/2003								<0.005
9/22/2004								<0.005
5/1/2007	<0.005							
9/11/2007	<0.005							
3/20/2008	<0.005							
8/27/2008	<0.005							
3/3/2009	<0.005							
9/9/2009							<0.005	
11/18/2009	<0.005						<0.005	
1/5/2010							<0.005	
3/3/2010	<0.005						<0.005	
9/7/2010							<0.005	
9/8/2010	<0.005							
11/22/2010			<0.005		<0.005			
1/4/2011			<0.005		<0.005			
2/17/2011			<0.005		<0.005			
3/10/2011	<0.005						<0.005	
3/11/2011			<0.005		<0.005			
3/28/2011			<0.005		<0.005			
9/7/2011			<0.005	<0.005	<0.005	<0.005		
9/8/2011	<0.005	<0.005					<0.005	
3/4/2012					<0.005			
3/5/2012	<0.005	<0.005		<0.005		<0.005	<0.005	
3/6/2012			<0.005					
9/5/2012		<0.005		<0.005		<0.005	<0.005	
9/10/2012	<0.005				<0.005			
9/11/2012			<0.005					
2/5/2013		<0.005				<0.005	<0.005	
2/6/2013	<0.005		<0.005	<0.005	<0.005			
8/12/2013	<0.005							
8/13/2013		<0.005	<0.005	<0.005				<0.005
8/14/2013					<0.005	<0.005		
2/4/2014		<0.005	<0.005		<0.005		<0.005	
2/5/2014	<0.005			<0.005		<0.005		
8/4/2014				<0.005	<0.005	<0.005		
8/5/2014	<0.005	<0.005	<0.005				<0.005	
2/2/2015		<0.005	<0.005		<0.005			
2/3/2015				<0.005		<0.005	<0.005	
2/4/2015	<0.005							
8/3/2015	<0.005			<0.005 (D)	<0.005 (D)	<0.005 (D)		
8/4/2015		<0.005 (D)	<0.005				<0.005	
2/16/2016	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005	
2/17/2016			<0.005					
8/31/2016	<0.005	<0.005	<0.005	<0.005				
9/1/2016					<0.005	<0.005	<0.005	
11/28/2016	<0.005		<0.005					
11/29/2016		<0.005					<0.005	

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/12/2020 1:55 PM
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	GWA-1 (bg)
11/30/2016				<0.005	<0.005			
12/1/2016						<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		
5/8/2017	<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	<0.005					0.0013 (J)		
7/18/2017		<0.005	<0.005	<0.005	<0.005		0.001 (J)	
10/16/2017	<0.005					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							<0.005
2/20/2018			<0.005		<0.005			
2/21/2018		<0.005		<0.005		0.00091 (J)		
8/6/2018	<0.005							0.0023 (J)
8/7/2018		<0.005		<0.005		0.0021 (J)		
8/8/2018			<0.005		<0.005			
2/25/2019	<0.005							0.00073 (J)
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)	0.00068 (J)	
8/19/2019	0.00095 (J)				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	<0.005							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	<0.005		0.0016 (J)				<0.005
3/18/2020			<0.005		<0.005	0.0008 (J)		

Time Series

Constituent: Barium (mg/L) Analysis Run 5/12/2020 1:55 PM
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	GWA-1 (bg)
9/9/1998								0.006
9/20/1999								0.015
9/12/2001								0.018
9/3/2002								0.023
7/29/2003								0.02
12/5/2003								0.012
9/22/2004								0.03
5/1/2007	0.032							
9/11/2007	0.017							
3/20/2008	0.025							
8/27/2008	0.041							
3/3/2009	0.053							
9/9/2009							0.025	
11/18/2009	0.05						0.025	
1/5/2010							0.018	
3/3/2010	0.061						0.022	
9/7/2010							0.019	
9/8/2010	0.071							
11/22/2010			0.12		0.03			
1/4/2011			0.1		0.065			
2/17/2011			0.1		0.061			
3/10/2011	0.057						0.017	
3/11/2011			0.05		0.066			
3/28/2011			0.087		0.04			
9/7/2011			0.065	0.025	0.041	0.02		
9/8/2011	0.057	0.086					0.019	
3/4/2012					0.046			
3/5/2012	0.061	0.044		0.014		0.048	0.027	
3/6/2012			0.049					
9/5/2012		0.034		0.0095		0.07	0.04	
9/10/2012	0.055				0.084			
9/11/2012			0.045					
2/5/2013		0.03				0.068	0.056	
2/6/2013	0.061		0.05	0.0094	0.042			
8/12/2013	0.055							
8/13/2013		0.027	0.13	0.13			0.07	
8/14/2013					0.042	0.036		
2/4/2014		0.037	0.08		0.046		0.051	
2/5/2014	0.063			0.066		0.044		
8/4/2014				0.043	0.027	0.058		
8/5/2014	0.038	0.048	0.068				0.041	
2/2/2015		0.069	0.066		0.02			
2/3/2015				0.031		0.033	0.04	
2/4/2015	0.039							
8/3/2015	0.031			0.039 (D)	0.017 (D)	0.037 (D)		
8/4/2015		0.023 (D)	0.053				0.042	
2/16/2016	0.045	0.044		0.038	0.032	0.04	0.068	
2/17/2016			0.059					
8/31/2016	0.0542	0.0711	0.0601	0.0286				
9/1/2016					0.0377	0.0345	0.0536	
11/28/2016	0.0529		0.0562					
11/29/2016		0.0754					0.0459	

Time Series

Constituent: Barium (mg/L) Analysis Run 5/12/2020 1:55 PM
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	GWA-1 (bg)
11/30/2016				0.0258	0.0148			
12/1/2016						0.0342		
2/22/2017	0.0607		0.0481					
2/23/2017		0.0646		0.0278			0.0581	
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	0.0873	
7/17/2017	0.06					0.0274		
7/18/2017		0.039	0.049	0.0407	0.0187		0.0994	
10/16/2017	0.0542					0.0151		
10/17/2017		0.0349	0.047		0.0157			
10/18/2017				0.049			0.0757	
2/19/2018	0.0533						0.0703	
2/20/2018			0.0467		0.0151			
2/21/2018		0.0322		0.0285		0.0174		
8/6/2018	0.044						0.076	
8/7/2018		0.025		0.029		0.015		
8/8/2018			0.049		0.019			
2/25/2019	0.045						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	0.062	
8/19/2019	0.065				0.02			
8/20/2019		0.07	0.05				0.06	
8/21/2019				0.02		0.014		
10/8/2019	0.058						0.054	
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			0.031	
3/18/2020			0.04		0.038	0.015		

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/12/2020 1:55 PM
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	GWA-1 (bg)
9/9/1998								<0.003
9/20/1999								<0.003
9/12/2001								<0.003
9/3/2002								<0.003
7/29/2003								<0.003
12/5/2003								<0.003
9/22/2004								<0.003
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				0.0011 (J)	<0.003	0.00026 (J)		
8/5/2014	<0.003	7.5E-05 (J)	<0.003				<0.003	
2/2/2015		0.00023 (J)	<0.003		<0.003			
2/3/2015				0.00061 (J)		0.00023 (J)	<0.003	
2/4/2015	<0.003							
8/3/2015	<0.003			0.00051 (JD)	<0.003 (D)	0.00046 (JD)		
8/4/2015		<0.003 (D)	<0.003				<0.003	
2/16/2016	<0.003	<0.003		0.00084 (J)	<0.003	0.00048 (J)	<0.003	
2/17/2016			<0.003					
8/31/2016	<0.003	0.0001 (J)	<0.003	0.0003 (J)				
9/1/2016					<0.003	0.0005 (J)	<0.003	
11/28/2016	<0.003		<0.003					
11/29/2016		<0.003					<0.003	

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/12/2020 1:55 PM
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	GWA-1 (bg)
11/30/2016				0.0004 (J)	<0.003			
12/1/2016						0.0003 (J)		
2/22/2017	<0.003		<0.003					
2/23/2017		<0.003		0.0003 (J)			<0.003	
2/24/2017					<0.003	0.0002 (J)		
5/8/2017	<0.003							
5/9/2017		8E-05 (J)		0.0002 (J)				
5/10/2017			<0.003		<0.003	0.0003 (J)	<0.003	
7/17/2017	<0.003					0.0004 (J)		
7/18/2017		<0.003	<0.003	0.0002 (J)	<0.003		<0.003	
10/16/2017	<0.003					0.0006 (J)		
10/17/2017		0.0001 (J)	<0.003		<0.003			
10/18/2017				0.0004 (J)				<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		7.4E-05 (J)		0.00026 (J)		0.00096 (J)		
8/8/2018			7E-05 (J)		<0.003			
2/25/2019	<0.003							<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		<0.003			
6/13/2019		<0.003		0.00051 (J)		0.0015 (J)	<0.003	
8/19/2019	<0.003				<0.003			
8/20/2019		0.0001 (J)	0.00017 (J)					<0.003
8/21/2019				0.00046 (J)		0.0028 (J)		
10/8/2019	<0.003							<0.003
10/9/2019		0.00013 (J)	0.00014 (J)			0.0022 (J)		
10/10/2019				0.00039 (J)	<0.003			
3/17/2020	<0.003	7.6E-05 (J)		0.00095 (J)				<0.003
3/18/2020			0.00012 (J)		<0.003	0.0028 (J)		

Time Series

Constituent: Boron (mg/L) Analysis Run 5/12/2020 1:55 PM

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)	

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/12/2020 1:55 PM
 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				0.00034 (J)	<0.001	0.00045 (J)	
8/5/2014	<0.001	<0.001	<0.001				<0.001
2/2/2015		<0.001	<0.001		<0.001		
2/3/2015				<0.001		<0.001	<0.001
2/4/2015	<0.001						
8/3/2015	<0.001			<0.001 (D)	<0.001 (D)	0.00046 (JD)	
8/4/2015		<0.001 (D)	<0.001				<0.001
2/16/2016	<0.001	<0.001		0.00025 (J)	<0.001	0.00097 (J)	<0.001
2/17/2016			<0.001				
8/31/2016	<0.001	<0.001	0.0001 (J)	<0.001			
9/1/2016					0.0001 (J)	0.0005 (J)	<0.001
11/28/2016	<0.001		0.0001 (J)				
11/29/2016		8E-05 (J)					<0.001
11/30/2016				<0.001	<0.001		
12/1/2016						0.0004 (J)	
2/22/2017	<0.001		<0.001				
2/23/2017		<0.001		<0.001			<0.001
2/24/2017					<0.001	0.0003 (J)	
5/8/2017	<0.001						
5/9/2017		<0.001		<0.001			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/12/2020 1:55 PM
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			<0.001		<0.001	0.0003 (J)	<0.001
7/17/2017	<0.001					0.0004 (J)	
7/18/2017		<0.001	<0.001	<0.001	<0.001		<0.001
10/16/2017	<0.001					0.0006 (J)	
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		0.00083 (J)	
8/8/2018			<0.001		<0.001		
2/25/2019	<0.001						<0.001
2/26/2019		<0.001	<0.001	0.00011 (J)	<0.001	0.00081 (J)	
6/12/2019	<0.001		<0.001		<0.001		
6/13/2019		<0.001		0.00021 (J)		0.00073 (J)	<0.001
8/19/2019	<0.001				<0.001		
8/20/2019		<0.001	<0.001				<0.001
8/21/2019				<0.001		0.0012 (J)	
10/8/2019	<0.001						<0.001
10/9/2019		<0.001	<0.001			0.0011 (J)	
10/10/2019				0.00018 (J)	<0.001		
3/17/2020	<0.001	<0.001		0.00037 (J)			<0.001
3/18/2020			<0.001		<0.001	0.0012 (J)	

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/12/2020 1:55 PM
 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	

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/12/2020 1:55 PM
 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	

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/12/2020 1:55 PM
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	GWA-1 (bg)
9/9/1998								<0.01
9/20/1999								0.01
9/12/2001								<0.01
9/3/2002								<0.01
7/29/2003								<0.01
12/5/2003								<0.01
9/22/2004								0.0067
5/1/2007	0.0029							
9/11/2007	0.0084							
3/20/2008	0.0027							
8/27/2008	0.0026							
3/3/2009	0.0022							
9/9/2009							<0.01	
11/18/2009	0.0036						<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		0.0062			
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						0.0018
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		0.0013
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	0.0017	0.0019				0.0025
8/14/2013					<0.01	0.0016		
2/4/2014		<0.01	<0.01		<0.01			0.0013
2/5/2014	0.0059			0.0023		0.0018		
8/4/2014				0.002	<0.01	0.0029		
8/5/2014	<0.01	<0.01	<0.01					0.0018
2/2/2015		0.0028	<0.01		<0.01			
2/3/2015				0.0014		0.0017		0.0015
2/4/2015	<0.01							
8/3/2015	0.0011 (J)			0.0012 (JD)	<0.01 (D)	0.0028 (D)		
8/4/2015		<0.01 (D)	<0.01					0.0028
2/16/2016	<0.01	<0.01		0.0017	<0.01	0.0028		0.001 (J)
2/17/2016			<0.01					
8/31/2016	<0.01	0.0012 (J)	<0.01	0.0013 (J)				
9/1/2016					<0.01	0.0021 (J)		0.0015 (J)
11/28/2016	<0.01		<0.01					
11/29/2016		0.0009 (J)						0.0014 (J)

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/12/2020 1:55 PM
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	GWA-1 (bg)
11/30/2016				0.001 (J)	0.0013 (J)			
12/1/2016						0.0017 (J)		
2/22/2017	<0.01		<0.01					
2/23/2017		0.001 (J)		0.0012 (J)			0.0017 (J)	
2/24/2017					<0.01	0.0018 (J)		
5/8/2017	<0.01							
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	<0.01					0.0017 (J)		
7/18/2017		0.0008 (J)	<0.01	0.0009 (J)	0.0011 (J)		0.0012 (J)	
10/16/2017	<0.01					0.0023 (J)		
10/17/2017		0.001 (J)	<0.01		<0.01			
10/18/2017				0.001 (J)			0.0012 (J)	
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		0.0024 (J)		
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	0.0019 (J)		
6/12/2019	<0.01		<0.01		<0.01			
6/13/2019		0.0009 (J)		0.00073 (J)		0.0018 (J)	0.00089 (J)	
8/19/2019	<0.01				0.00051 (J)			
8/20/2019		0.0011 (J)	<0.01				0.0017 (J)	
8/21/2019				0.001 (J)		0.0024 (J)		
10/8/2019	<0.01						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	<0.01	0.001 (J)		0.0013 (J)			0.0013 (J)	
3/18/2020			0.0004 (J)		<0.01	0.0023 (J)		

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/12/2020 1:55 PM
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	GWA-1 (bg)
9/9/1998								0.013
9/20/1999								<0.005
9/12/2001								0.0024
9/3/2002								<0.005
7/29/2003								0.002
12/5/2003								<0.005
9/22/2004								<0.005
5/1/2007	0.0067							
9/11/2007	<0.005							
3/20/2008	<0.005							
8/27/2008	<0.005							
3/3/2009	<0.005							
9/9/2009							<0.005	
11/18/2009	<0.005						<0.005	
1/5/2010							<0.005	
3/3/2010	0.0027						<0.005	
9/7/2010							<0.005	
9/8/2010	0.007							
11/22/2010			0.038		<0.005			
1/4/2011			0.049		0.0036			
2/17/2011			0.044		0.0035			
3/10/2011	<0.005						<0.005	
3/11/2011			0.038		0.0053			
3/28/2011			0.029		<0.005			
9/7/2011			0.031	<0.005	0.0033	<0.005		
9/8/2011	<0.005	0.015					<0.005	
3/4/2012					0.0032			
3/5/2012	0.0032	<0.005		<0.005		<0.005	<0.005	
3/6/2012			0.021					
9/5/2012		0.0018		<0.005		<0.005	<0.005	
9/10/2012	<0.005				0.0067			
9/11/2012			0.017					
2/5/2013		0.0013				<0.005	<0.005	
2/6/2013	<0.005		0.025	<0.005	0.0024			
8/12/2013	0.0045							
8/13/2013		<0.005	0.023	<0.005			<0.005	
8/14/2013					0.0014	<0.005		
2/4/2014		<0.005	0.019		<0.005		<0.005	
2/5/2014	<0.005			<0.005		<0.005		
8/4/2014				<0.005	<0.005	<0.005		
8/5/2014	0.0027	<0.005	0.023				<0.005	
2/2/2015		0.0015	0.022		<0.005			
2/3/2015				<0.005		<0.005	<0.005	
2/4/2015	0.0016							
8/3/2015	0.002			<0.005 (D)	<0.005 (D)	<0.005 (D)		
8/4/2015		<0.005 (D)	0.021				0.0014	
2/16/2016	0.0027	<0.005		<0.005	0.0082	<0.005	<0.005	
2/17/2016			0.024					
8/31/2016	0.0053 (J)	0.0006 (J)	0.0239	<0.005				
9/1/2016					0.0023 (J)	<0.005	<0.005	
11/28/2016	0.0036 (J)		0.0189					
11/29/2016		<0.005					<0.005	

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/12/2020 1:55 PM
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	GWA-1 (bg)
11/30/2016				<0.005	0.0008 (J)			
12/1/2016						<0.005		
2/22/2017	0.0049 (J)		0.0184					
2/23/2017		0.0009 (J)		<0.005			<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	<0.005	
7/17/2017	0.0046 (J)					<0.005		
7/18/2017		0.0032 (J)	0.0261	<0.005	0.0005 (J)		<0.005	
10/16/2017	0.0034 (J)					<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						<0.005	
2/20/2018			<0.005		<0.005			
2/21/2018		<0.005		<0.005		<0.005		
8/6/2018	0.003 (J)						<0.005	
8/7/2018		<0.005		<0.005		<0.005		
8/8/2018			0.014		0.001 (J)			
2/25/2019	0.001 (J)						<0.005	
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	<0.005	
8/19/2019	0.0035 (J)				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	0.0039 (J)						<0.005	
10/9/2019		0.00064 (J)	0.024			0.00031 (J)		
10/10/2019				<0.005	0.00099 (J)			
3/17/2020	0.003 (J)	0.00054 (J)		0.011			<0.005	
3/18/2020			0.019		0.0031 (J)	0.00044 (J)		

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/12/2020 1:55 PM

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)	

Time Series

Constituent: Copper (mg/L) Analysis Run 5/12/2020 1:55 PM
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	GWA-1 (bg)
9/9/1998								<0.005
9/20/1999								<0.005
9/12/2001								0.004
9/3/2002								0.01
7/29/2003								0.011
12/5/2003								0.0034
9/22/2004								0.0033
5/1/2007	0.0047							
9/11/2007	<0.005							
3/20/2008	<0.005							
8/27/2008	0.0074							
3/3/2009	<0.005							
9/9/2009							0.0028	
11/18/2009	0.0029						0.0027	
1/5/2010							0.0035	
3/3/2010	0.005						<0.005	
9/7/2010							<0.005	
9/8/2010	<0.005							
11/22/2010			<0.005		<0.005			
1/4/2011			<0.005		0.0049			
2/17/2011			<0.005		<0.005			
3/10/2011	0.0029						<0.005	
3/11/2011			<0.005		<0.005			
3/28/2011			<0.005		<0.005			
9/7/2011			<0.005	<0.005	<0.005	<0.005		
9/8/2011	<0.005	<0.005					<0.005	
3/4/2012					<0.005			
3/5/2012	<0.005	<0.005		<0.005		<0.005	<0.005	
3/6/2012			<0.005					
9/5/2012		<0.005		0.016		<0.005	<0.005	
9/10/2012	<0.005				<0.005			
9/11/2012			<0.005					
2/5/2013		<0.005				<0.005	<0.005	
2/6/2013	<0.005		<0.005	<0.005	<0.005			
8/12/2013	<0.005							
8/13/2013		<0.005	<0.005	<0.005			<0.005	
8/14/2013					<0.005	<0.005		
2/4/2014		<0.005	<0.005		<0.005		<0.005	
2/5/2014	<0.005			<0.005		<0.005		
8/4/2014				0.0012 (J)	<0.005	0.0015 (J)		
8/5/2014	0.005	<0.005	<0.005				0.0012 (J)	
2/2/2015		0.0031 (J)	<0.005		<0.005			
2/3/2015				<0.005		<0.005	0.0013 (J)	
2/4/2015	0.0025 (J)							
8/3/2015	0.0014 (J)			<0.005 (D)	<0.005 (D)	<0.005 (D)		
8/4/2015		<0.005 (D)	<0.005				0.0043 (J)	
2/16/2016	0.0011 (J)	<0.005		0.00082 (J)	0.00088 (J)	<0.005	<0.005	
2/17/2016			<0.005					
2/22/2017	0.0011 (J)		<0.005					
2/23/2017		<0.005		<0.005			0.0018 (J)	
2/24/2017					<0.005	<0.005		
2/19/2018	<0.005						<0.005	

Time Series

Constituent: Copper (mg/L) Analysis Run 5/12/2020 1:55 PM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	GWA-1 (bg)
2/20/2018			<0.005		<0.005			
2/21/2018		<0.005		<0.005		<0.005		
8/6/2018	<0.005						0.0016 (J)	
8/7/2018		<0.005		<0.005		<0.005		
8/8/2018			<0.005		<0.005			
2/25/2019	<0.005						0.0016 (J)	
2/26/2019		<0.005	<0.005	<0.005	<0.005	<0.005		
6/12/2019	0.00034 (J)		<0.005		0.00025 (J)			
6/13/2019		<0.005		<0.005		0.00049 (J)	0.0011 (J)	
10/8/2019	0.00041 (J)						0.0011 (J)	
10/9/2019		0.00079 (J)	0.00024 (J)			0.00087 (J)		
10/10/2019				0.00033 (J)	<0.005			
3/17/2020	0.00078 (J)	0.0004 (J)		0.00039 (J)			0.00091 (J)	
3/18/2020			<0.005		0.00021 (J)	0.00097 (J)		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/12/2020 1:55 PM
 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						<0.3	
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)		<0.3			
5/10/2017			0.05 (J)		0.04 (J)	<0.3	0.02 (J)
7/17/2017	0.14 (J)					0.37	
7/18/2017		<0.3	<0.3	<0.3	<0.3		<0.3
10/16/2017	0.12 (J)					<0.3	
10/17/2017		<0.3	<0.3		<0.3		
10/18/2017				0.22 (J)			<0.3
2/19/2018	0.17						<0.3
2/20/2018			<0.3		<0.3		
2/21/2018		<0.3		<0.3		<0.3	
8/6/2018	0.087 (J)						<0.3
8/7/2018		<0.3		<0.3		<0.3	
8/8/2018			<0.3		<0.3		
2/25/2019	0.14 (J)						<0.3
2/26/2019		<0.3	<0.3	<0.3	<0.3	0.035 (J)	
6/12/2019	0.12 (J)		0.58		<0.3		
6/13/2019		<0.3		0.58		<0.3	<0.3
8/19/2019	<0.3				<0.3		
8/20/2019		<0.3	<0.3				<0.3
8/21/2019				0.037 (J)		<0.3	
10/8/2019	0.052 (J)						<0.3
10/9/2019		<0.3	<0.3			0.35	
10/10/2019				<0.3	<0.3		
3/17/2020	0.053 (J)	<0.3		0.1 (J)			<0.3
3/18/2020			<0.3		<0.3	<0.3	

Time Series

Constituent: Lead (mg/L) Analysis Run 5/12/2020 1:55 PM
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	GWA-1 (bg)
9/9/1998								0.006
9/20/1999								<0.005
9/12/2001								0.0042
9/3/2002								<0.005
7/29/2003								0.015
12/5/2003								<0.005
9/22/2004								<0.005
5/1/2007	<0.005							
9/11/2007	<0.005							
3/20/2008	<0.005							
8/27/2008	<0.005							
3/3/2009	<0.005							
9/9/2009							<0.005	
11/18/2009	<0.005						<0.005	
1/5/2010							<0.005	
3/3/2010	<0.005						<0.005	
9/7/2010							<0.005	
9/8/2010	<0.005							
11/22/2010			<0.005		<0.005			
1/4/2011			<0.005		<0.005			
2/17/2011			<0.005		<0.005			
3/10/2011	<0.005						<0.005	
3/11/2011			<0.005		<0.005			
3/28/2011			<0.005		<0.005			
9/7/2011			<0.005	<0.005	<0.005	<0.005		
9/8/2011	<0.005	<0.005					<0.005	
3/4/2012					<0.005			
3/5/2012	<0.005	<0.005		<0.005		<0.005	<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					
8/31/2016	<0.005	<0.005	<0.005	0.0001 (J)				
9/1/2016					<0.005	<0.005	<0.005	
11/28/2016	<0.005		<0.005					
11/29/2016		<0.005					<0.005	

Time Series

Constituent: Lead (mg/L) Analysis Run 5/12/2020 1:55 PM
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	GWA-1 (bg)
11/30/2016				<0.005	<0.005			
12/1/2016						<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		
5/8/2017	<0.005							
5/9/2017		<0.005		<0.005				
5/10/2017			0.0001 (J)		<0.005	<0.005	<0.005	
7/17/2017	<0.005					<0.005		
7/18/2017		<0.005	7E-05 (J)	<0.005	<0.005		<0.005	
10/16/2017	<0.005					<0.005		
10/17/2017		<0.005	<0.005		<0.005			
10/18/2017				8E-05 (J)			<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		
6/12/2019	<0.005		<0.005		<0.005			
6/13/2019		<0.005		<0.005		<0.005	<0.005	
8/19/2019	<0.005				<0.005			
8/20/2019		<0.005	6.1E-05 (J)				<0.005	
8/21/2019				8.2E-05 (J)		7E-05 (J)		
10/8/2019	<0.005						<0.005	
10/9/2019		5.2E-05 (J)	5.7E-05 (J)			5.9E-05 (J)		
10/10/2019				<0.005	<0.005			
3/17/2020	<0.005	<0.005		0.00015 (J)			<0.005	
3/18/2020			<0.005		<0.005	7.9E-05 (J)		

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/12/2020 1:55 PM
 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)	

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/12/2020 1:55 PM
 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 5/12/2020 1:55 PM
 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		

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/12/2020 1:55 PM
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	

Time Series

Constituent: Nickel (mg/L) Analysis Run 5/12/2020 1:55 PM
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	GWA-1 (bg)
9/9/1998								<0.01
9/20/1999								<0.01
9/12/2001								<0.01
9/3/2002								<0.01
7/29/2003								0.0061
12/5/2003								<0.01
9/22/2004								<0.01
5/1/2007	0.0061							
9/11/2007	0.021							
3/20/2008	<0.01							
8/27/2008	<0.01							
3/3/2009	0.005							
9/9/2009							<0.01	
11/18/2009	0.0052						<0.01	
1/5/2010							<0.01	
3/3/2010	0.011						<0.01	
9/7/2010							<0.01	
9/8/2010	0.012							
11/22/2010			0.0096		<0.01			
1/4/2011			0.0084		<0.01			
2/17/2011			0.0088		<0.01			
3/10/2011	0.0032						<0.01	
3/11/2011			0.0058		<0.01			
3/28/2011			0.0058		<0.01			
9/7/2011			0.005	0.0054	<0.01	<0.01		
9/8/2011	0.0046	0.009					<0.01	
3/4/2012					<0.01			
3/5/2012	0.0053	0.0035		<0.01		<0.01	<0.01	
3/6/2012			<0.01					
9/5/2012		0.0027		<0.01		<0.01	<0.01	
9/10/2012	0.0074				<0.01			
9/11/2012			<0.01					
2/5/2013		0.0026				<0.01	<0.01	
2/6/2013	0.0077		<0.01	<0.01	<0.01			
8/12/2013	0.016							
8/13/2013		<0.01	0.003	0.0032				<0.01
8/14/2013					<0.01	0.0032		
2/4/2014		<0.01	0.0026		0.0033		<0.01	
2/5/2014	0.019			0.0039		0.0032		
8/4/2014				0.0024 (J)	0.0015 (J)	0.0059		
8/5/2014	0.0057	0.0013 (J)	0.0015 (J)				<0.01	
2/2/2015		0.0023 (J)	<0.01		<0.01			
2/3/2015				<0.01		0.0013 (J)	<0.01	
2/4/2015	0.0055							
8/3/2015	0.0055			<0.01 (D)	<0.01 (D)	0.0039 (D)		
8/4/2015		<0.01 (D)	<0.01				<0.01	
2/16/2016	0.0039	<0.01		<0.01	<0.01	0.0036	<0.01	
2/17/2016			<0.01					
2/22/2017	0.0051 (J)		0.0009 (J)					
2/23/2017		0.0026 (J)		<0.01			0.0015 (J)	
2/24/2017					0.0021 (J)	0.0019 (J)		
2/19/2018	<0.01						<0.01	

Time Series

Constituent: Nickel (mg/L) Analysis Run 5/12/2020 1:55 PM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	GWA-1 (bg)
2/20/2018			<0.01		<0.01			
2/21/2018		0.001 (J)		<0.01		0.0013 (J)		
8/6/2018	0.003 (J)						0.0026 (J)	
8/7/2018		<0.01		<0.01		0.0019 (J)		
8/8/2018			<0.01		0.0012 (J)			
2/25/2019	0.0026 (J)						0.0023 (J)	
2/26/2019		<0.01	0.0068 (J)	<0.01	<0.01	0.0023 (J)		
6/12/2019	0.0038 (J)		0.00043 (J)		0.00082 (J)			
6/13/2019		0.00072 (J)		<0.01		0.0019 (J)	0.0037 (J)	
10/8/2019	0.0051 (J)						0.0021 (J)	
10/9/2019		0.0015 (J)	0.00058 (J)			0.0019 (J)		
10/10/2019				<0.01	0.00084 (J)			
3/17/2020	0.0066	0.00087 (J)		0.00056 (J)			0.0011 (J)	
3/18/2020			0.00063 (J)		0.0026 (J)	0.002 (J)		

Time Series

Constituent: pH (S.U.) Analysis Run 5/12/2020 1:55 PM
 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 5/12/2020 1:55 PM
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	

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/12/2020 1:55 PM
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	GWA-1 (bg)
9/9/1998								<0.01
9/20/1999								<0.01
9/12/2001								<0.01
9/3/2002								<0.01
7/29/2003								0.015
12/5/2003								<0.01
9/22/2004								<0.01
5/1/2007	<0.01							
9/11/2007	<0.01							
3/20/2008	<0.01							
8/27/2008	<0.01							
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		0.014	<0.01	
3/6/2012			<0.01					
9/5/2012		<0.01		<0.01		0.012	<0.01	
9/10/2012	<0.01				0.011			
9/11/2012			<0.01					
2/5/2013		<0.01				0.011	<0.01	
2/6/2013	<0.01		<0.01	<0.01	0.011			
8/12/2013	<0.01							
8/13/2013		<0.01	<0.01	0.0057				<0.01
8/14/2013					0.013	0.025		
2/4/2014		<0.01	<0.01		0.017			<0.01
2/5/2014	<0.01			<0.01		0.02		
8/4/2014				<0.01	0.0085	0.032		
8/5/2014	<0.01	<0.01	<0.01					<0.01
2/2/2015		<0.01	<0.01		0.0089			
2/3/2015				<0.01		0.011	<0.01	
2/4/2015	<0.01							
8/3/2015	<0.01			<0.01 (D)	0.0067 (D)	0.046 (D)		
8/4/2015		<0.01 (D)	<0.01					<0.01
2/16/2016	<0.01	<0.01		<0.01	0.0047 (J)	0.022	<0.01	
2/17/2016			<0.01					
8/31/2016	<0.01	0.0039 (J)	0.0029 (J)	0.0038 (J)				
9/1/2016					0.0132	0.0212	0.002 (J)	
11/28/2016	<0.01		0.0019 (J)					
11/29/2016		0.0033 (J)					0.0017 (J)	

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/12/2020 1:55 PM
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	GWA-1 (bg)
11/30/2016				0.0054 (J)	0.0046 (J)			
12/1/2016						0.0234		
2/22/2017	<0.01		0.0015 (J)					
2/23/2017		0.0097 (J)		0.002 (J)			0.0018 (J)	
2/24/2017					0.0108	0.0154		
5/8/2017	<0.01							
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	<0.01					0.0136		
7/18/2017		0.0021 (J)	0.0024 (J)	0.0027 (J)	0.0047 (J)		0.0046 (J)	
10/16/2017	<0.01					0.0242		
10/17/2017		0.003 (J)	0.0028 (J)		0.004 (J)			
10/18/2017				0.0047 (J)			0.0037 (J)	
2/19/2018	<0.01						<0.01	
2/20/2018			<0.01		<0.01			
2/21/2018		<0.01		<0.01		0.0127		
8/6/2018	<0.01						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	<0.01						0.0051 (J)	
2/26/2019		0.0014 (J)	0.003 (J)	0.002 (J)	0.0027 (J)	0.024		
6/12/2019	<0.01		0.0034 (J)		0.0029 (J)			
6/13/2019		<0.01		0.0089 (J)		0.027	0.0048 (J)	
8/19/2019	<0.01				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	<0.01						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	<0.01	0.0017 (J)		0.0096 (J)			0.0026 (J)	
3/18/2020			0.0032 (J)		0.0046 (J)	0.028		

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/12/2020 1:55 PM
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	

Time Series

Constituent: TDS (mg/L) Analysis Run 5/12/2020 1:55 PM

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	

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/12/2020 1:55 PM
 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 5/12/2020 1:55 PM
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	

Time Series

Constituent: Vanadium (mg/L) Analysis Run 5/12/2020 1:55 PM
 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 5/12/2020 1:55 PM
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	

Time Series

Constituent: Zinc (mg/L) Analysis Run 5/12/2020 1:55 PM
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	GWA-1 (bg)
9/9/1998								0.01
9/20/1999								0.017
9/12/2001								0.017
9/3/2002								0.015
7/29/2003								0.022
12/5/2003								0.0087
9/22/2004								<0.01
5/1/2007	0.0081							
9/11/2007	0.0049							
3/20/2008	0.004							
8/27/2008	0.0042							
3/3/2009	0.0058							
9/9/2009							0.003	
11/18/2009	0.0038						<0.01	
1/5/2010							0.0027	
3/3/2010	0.0085						<0.01	
9/7/2010							<0.01	
9/8/2010	0.0065							
11/22/2010			0.0047		<0.01			
1/4/2011			0.0038		<0.01			
2/17/2011			0.0074		<0.01			
3/10/2011	0.0029						<0.01	
3/11/2011			0.0038		0.025 (o)			
3/28/2011			<0.01		<0.01			
9/7/2011			0.0059	0.0064	<0.01	0.0064		
9/8/2011	0.004	0.0048					<0.01	
3/4/2012					<0.01			
3/5/2012	0.0059	0.0038		0.0043		0.0034	0.0053	
3/6/2012			0.0032					
9/5/2012		0.0051		0.0069		0.0035	0.0033	
9/10/2012	0.0052				<0.01			
9/11/2012			0.0029					
2/5/2013		<0.01				0.0027	<0.01	
2/6/2013	0.0038		0.0036	<0.01	<0.01			
8/12/2013	0.0075							
8/13/2013		<0.01	0.0066	0.011			0.0038	
8/14/2013					<0.01	0.0041		
2/4/2014		0.0037	0.011		0.0034		0.0046	
2/5/2014	0.018 (o)			0.026 (o)		0.011		
8/4/2014				0.012	0.0013 (J)	0.011		
8/5/2014	0.0037	0.0019 (J)	0.0032				0.0019 (J)	
2/2/2015		0.0051	0.0031		<0.01			
2/3/2015				0.0061		0.0044	0.0026	
2/4/2015	0.0057							
8/3/2015	0.0043			0.0037 (D)	<0.01 (D)	0.011 (D)		
8/4/2015		0.0017 (JD)	0.0017 (J)				0.0035	
2/16/2016	0.0024 (J)	0.0015 (J)		0.0093	0.0017 (J)	0.014	0.002 (J)	
2/17/2016			0.0034					
2/22/2017	0.0042 (J)		0.0024 (J)					
2/23/2017		0.0024 (J)		0.0031 (J)			0.0038 (J)	
2/24/2017					0.0028 (J)	0.0043 (J)		
5/8/2017	0.0025 (J)							

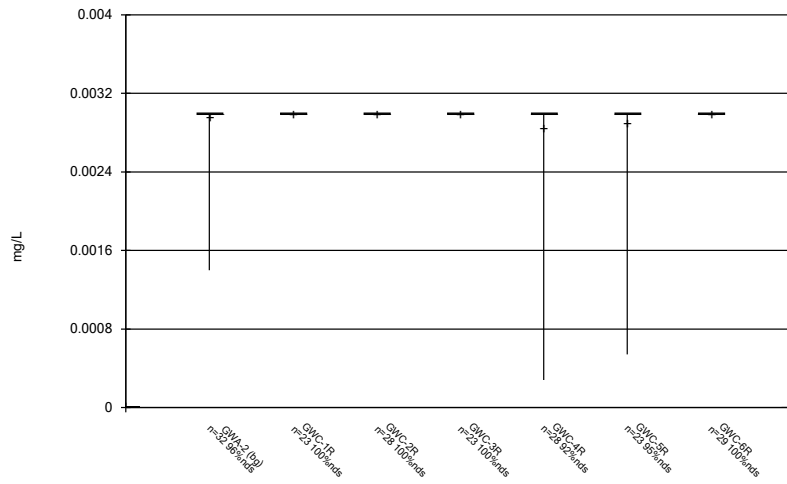
Time Series

Constituent: Zinc (mg/L) Analysis Run 5/12/2020 1:55 PM
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R	GWA-1 (bg)
5/9/2017		0.0016 (J)		0.0025 (J)				
5/10/2017			0.0022 (J)		0.0014 (J)	0.0042 (J)	0.0027 (J)	
7/17/2017	0.0032 (J)					0.0055 (J)		
7/18/2017		0.0015 (J)	0.0017 (J)	0.0028 (J)	0.0015 (J)		0.0024 (J)	
2/19/2018	<0.01						<0.01	
2/20/2018			<0.01		<0.01			
2/21/2018		<0.01		0.003 (J)		0.0102		
8/6/2018	0.0037 (J)						0.004 (J)	
8/7/2018		0.0044 (J)		0.0036 (J)		0.015		
8/8/2018			0.0021 (J)		0.0033 (J)			
2/25/2019	0.013						0.0028 (J)	
2/26/2019		0.0022 (J)	0.003 (J)	0.0033 (J)	<0.01	0.015		
6/12/2019	<0.01		0.0019 (J)		<0.01			
6/13/2019		<0.01		0.0069 (J)		0.015	<0.01	
10/8/2019	0.0078 (J)						0.006 (J)	
10/9/2019		0.0078 (J)	0.0069 (J)			0.025		
10/10/2019				0.0079 (J)	0.006 (J)			
1/21/2020						0.015		
3/17/2020	<0.01	<0.01		<0.01			<0.01	
3/18/2020			<0.01		<0.01	0.023		

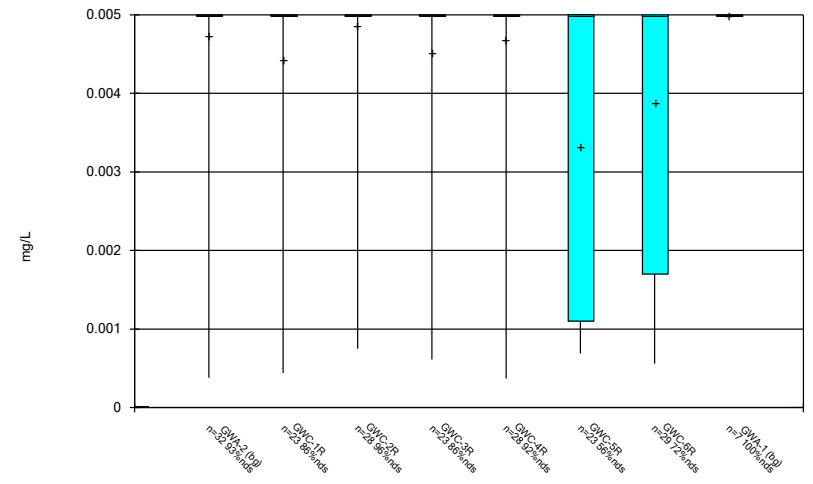
FIGURE B.

Box & Whiskers Plot



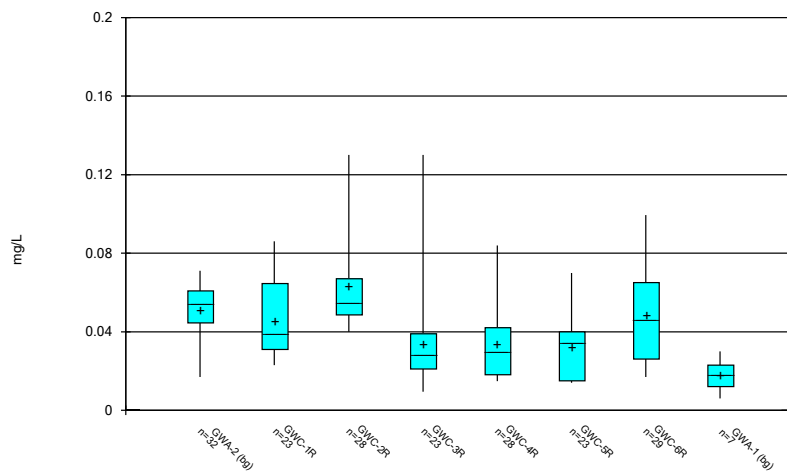
Constituent: Antimony Analysis Run 5/12/2020 1:55 PM
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



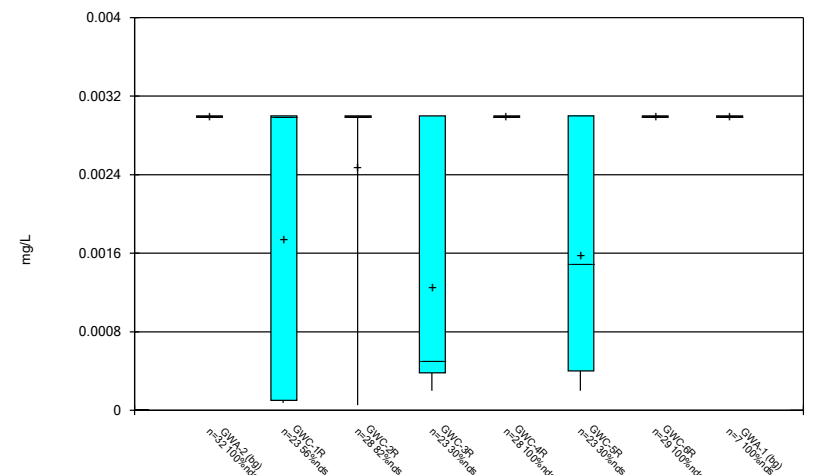
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



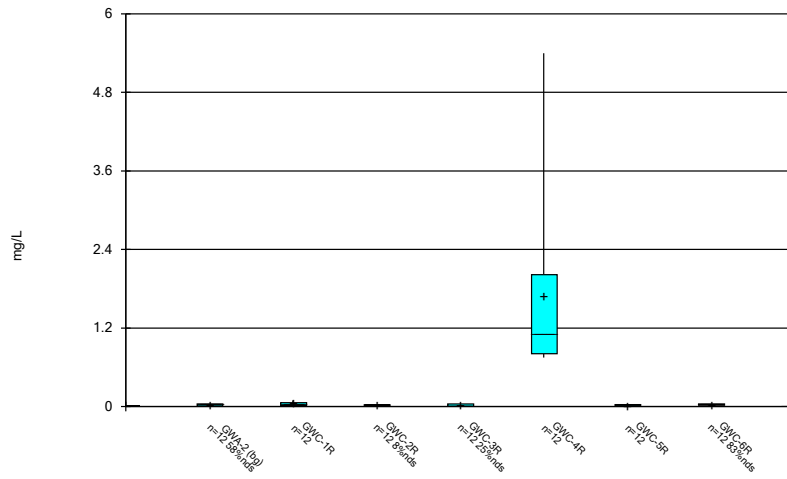
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



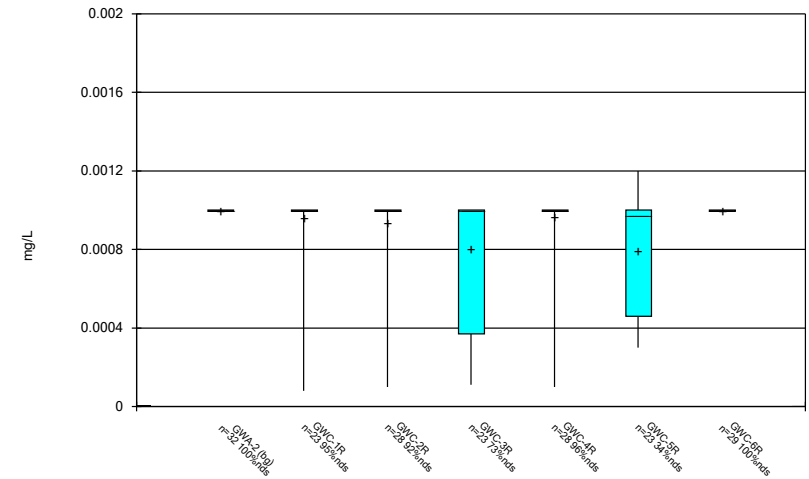
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



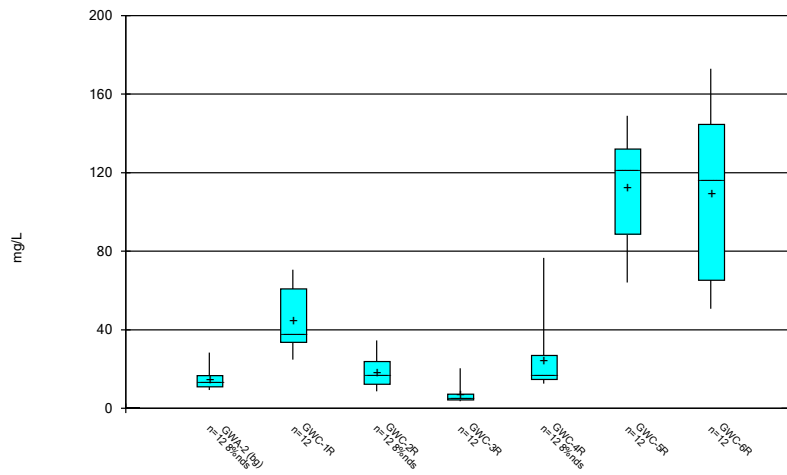
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



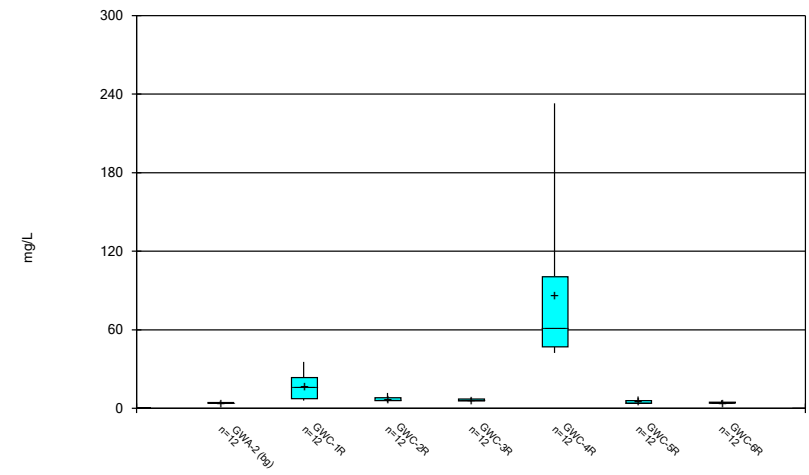
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



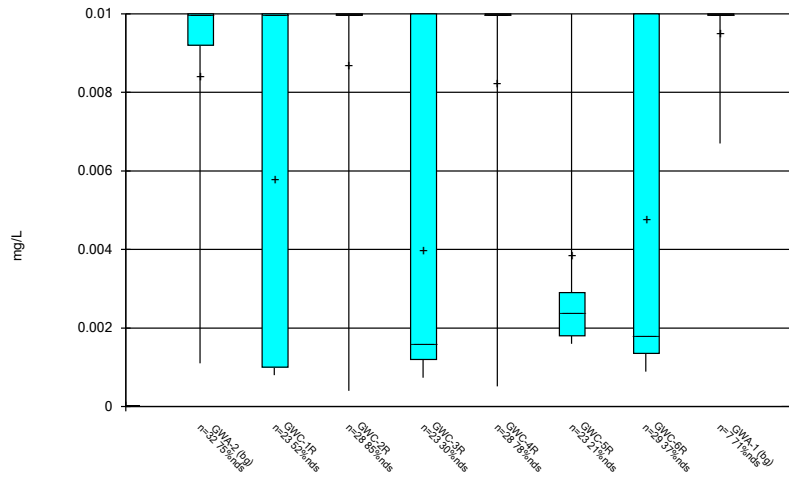
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



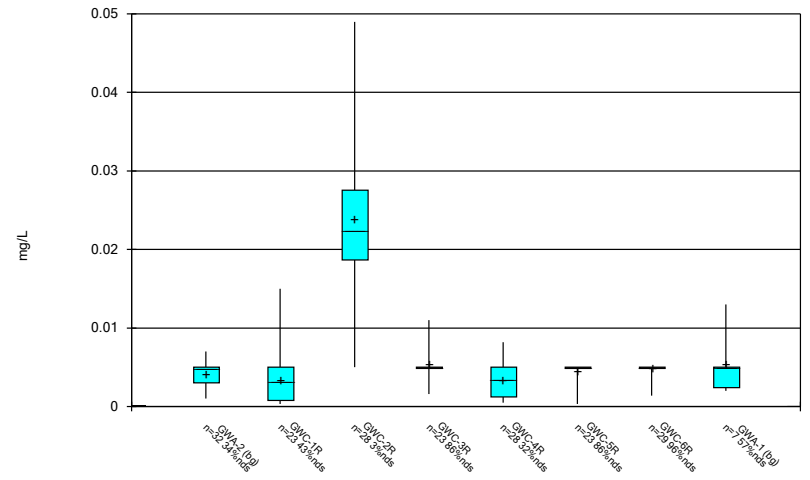
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



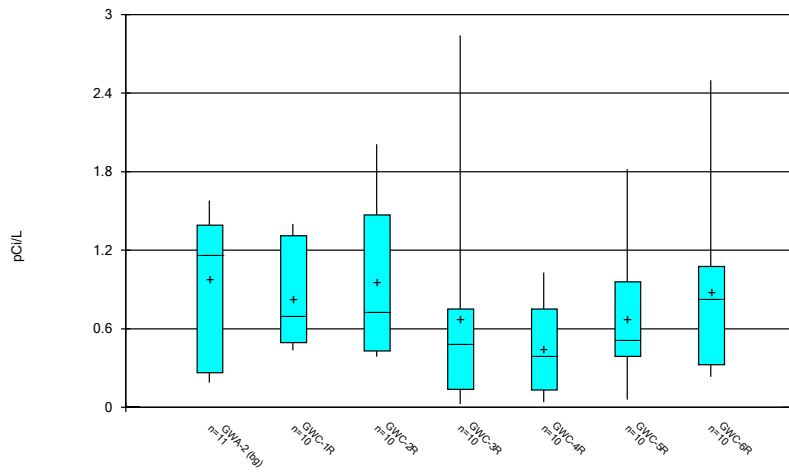
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



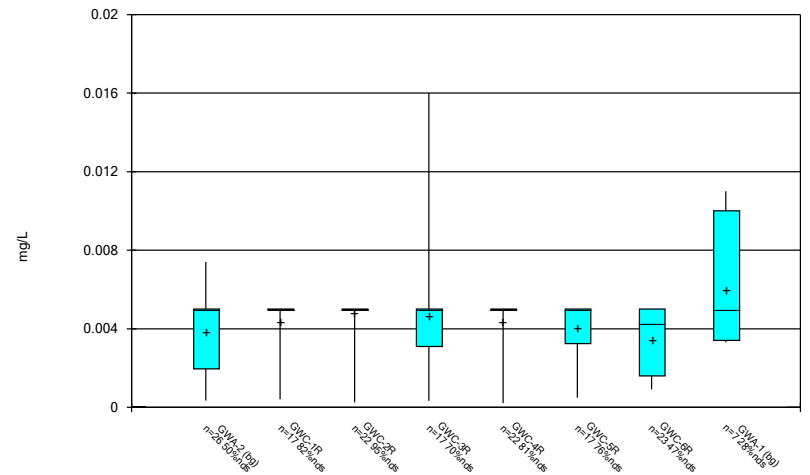
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



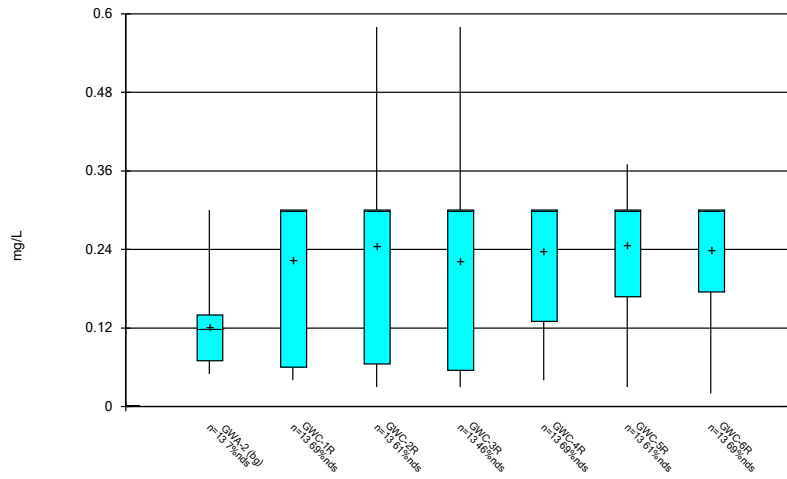
Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 1:56 PM
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



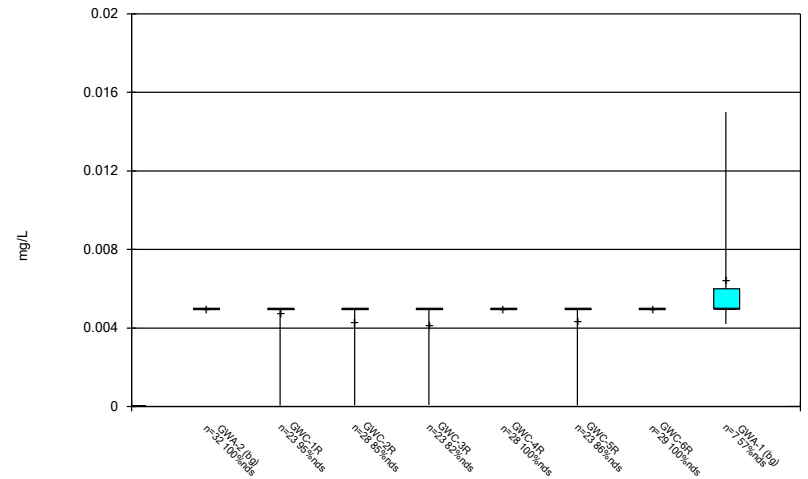
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



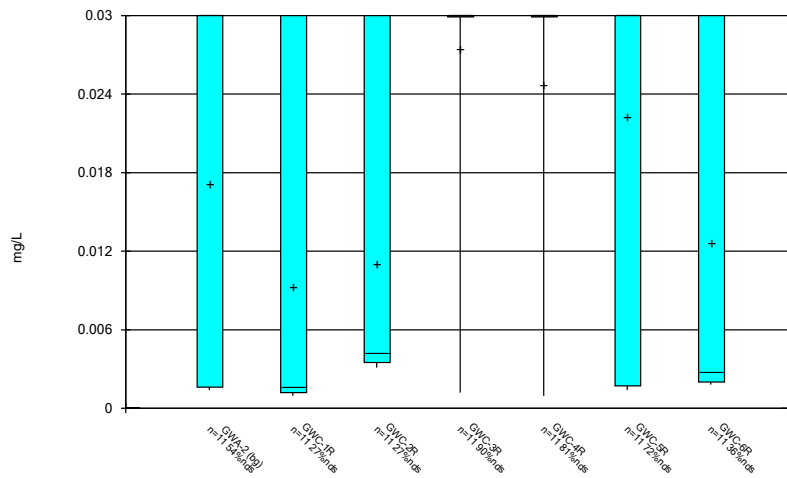
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Box & Whiskers Plot



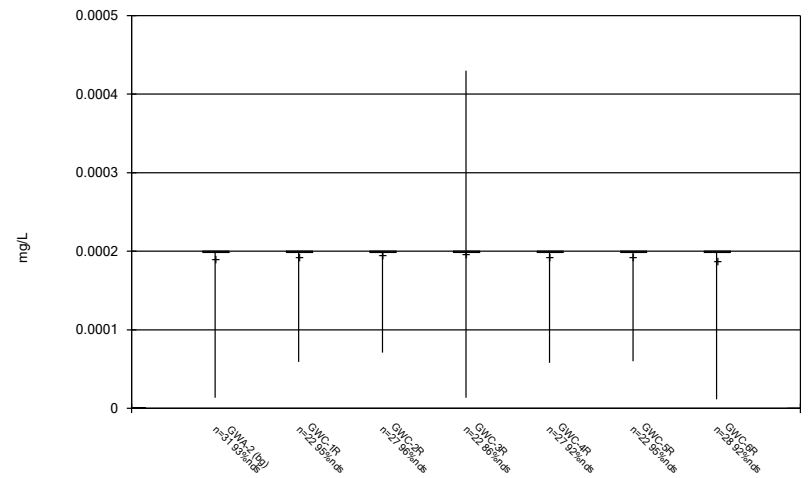
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Box & Whiskers Plot



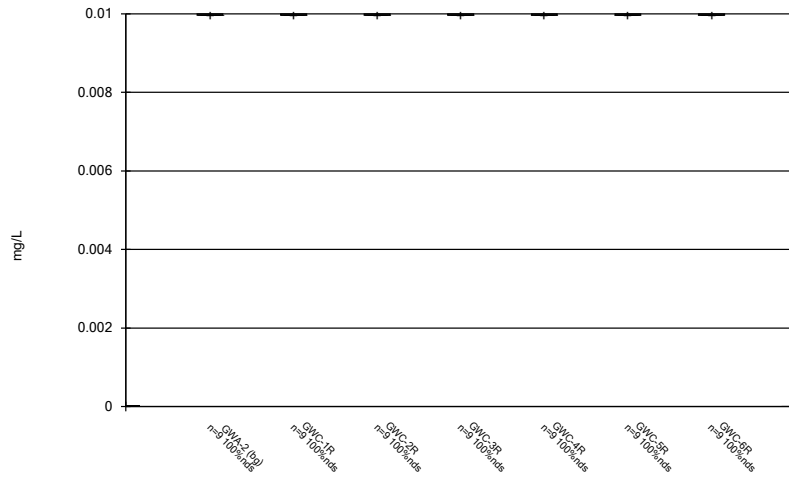
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Box & Whiskers Plot



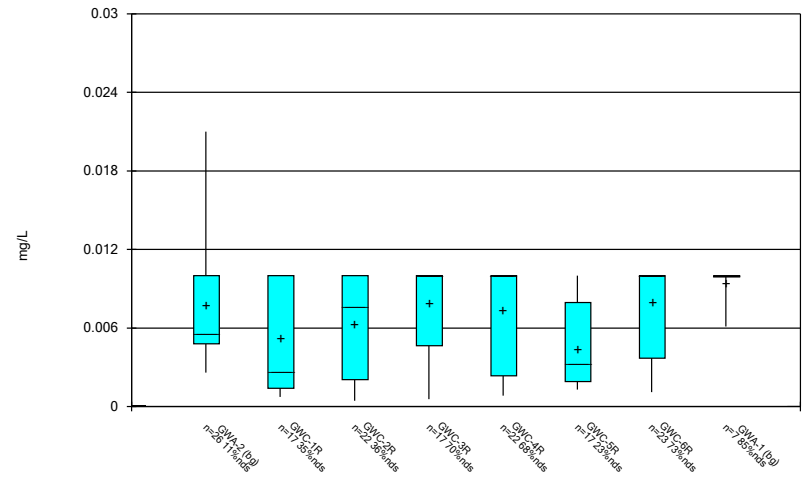
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



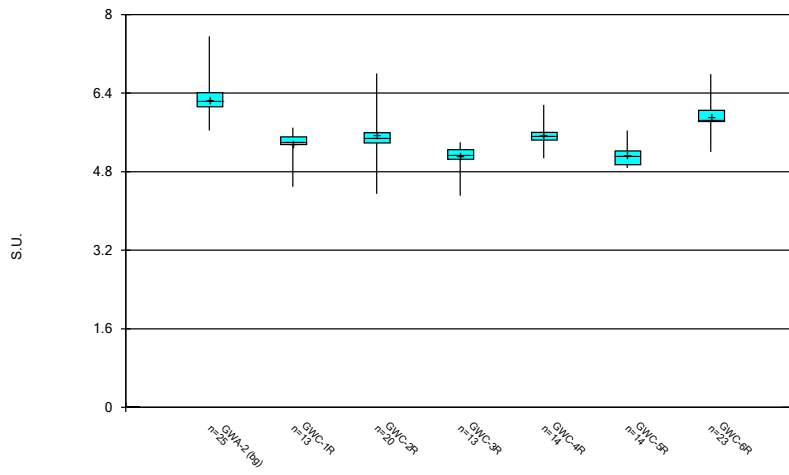
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



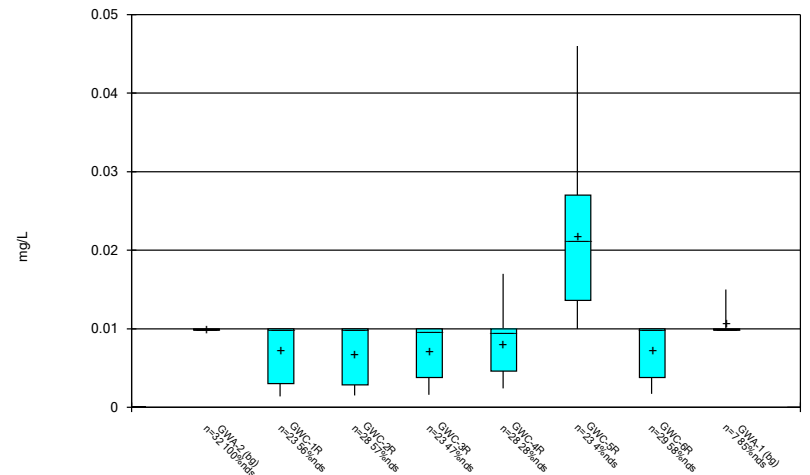
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



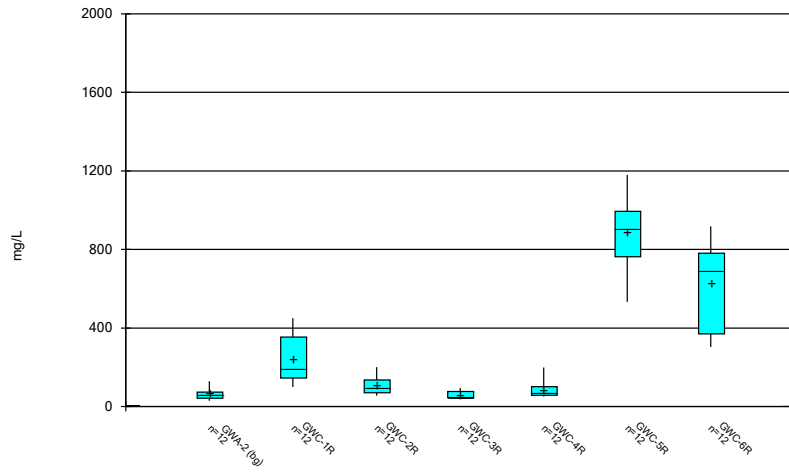
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



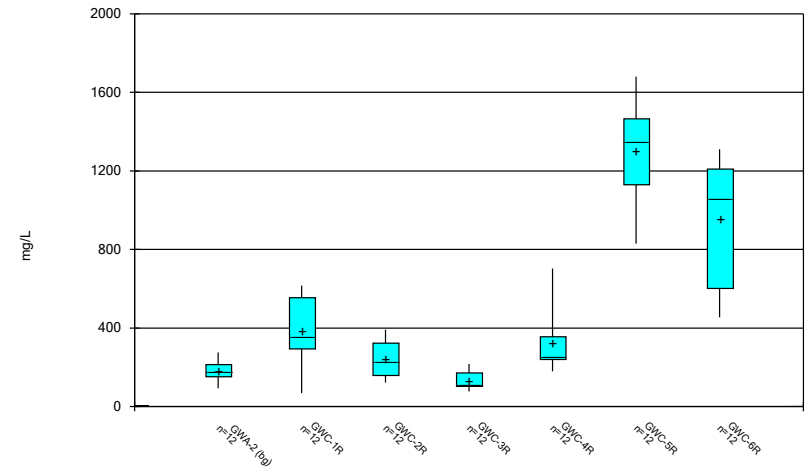
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Box & Whiskers Plot



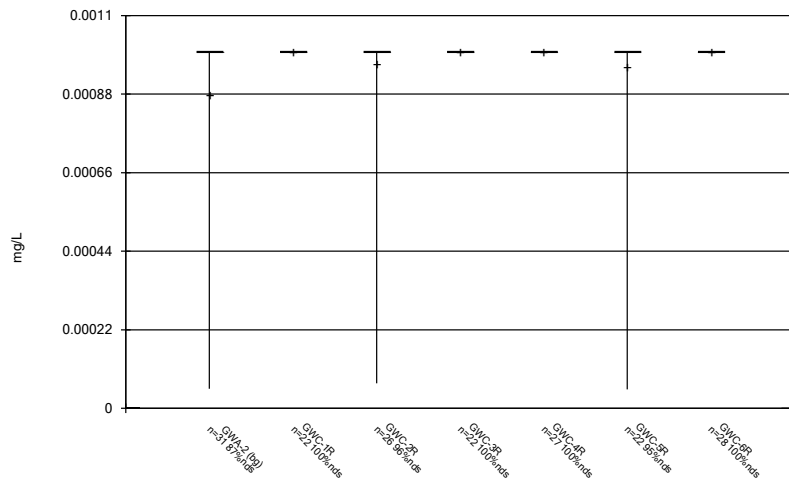
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



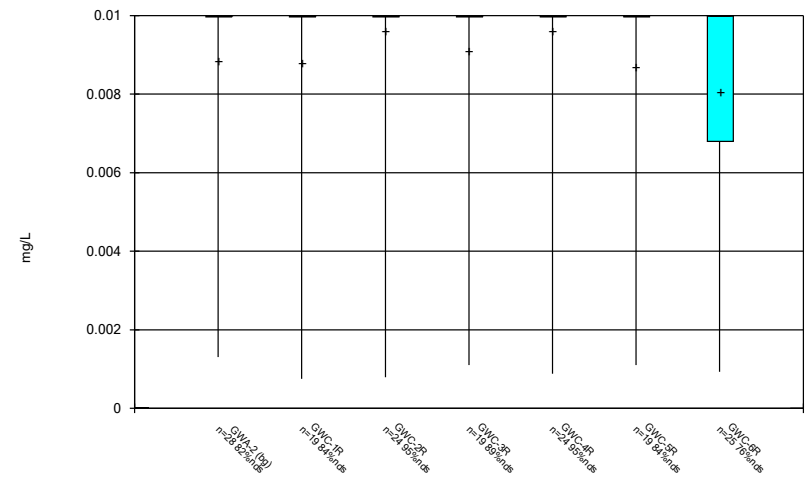
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



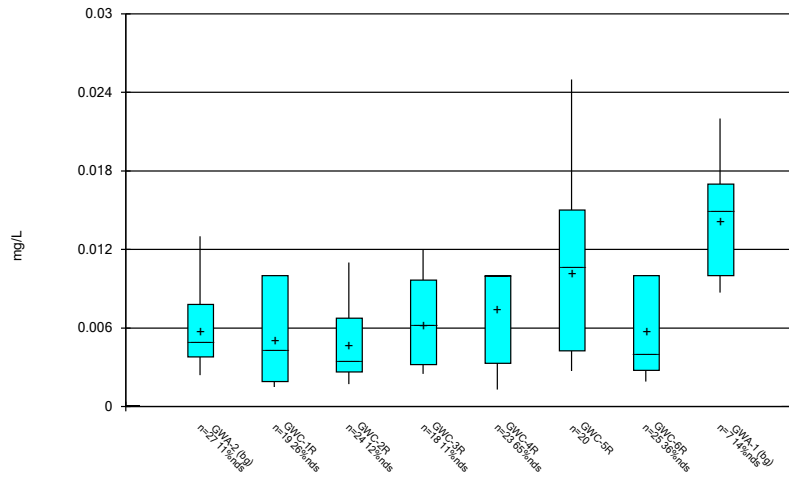
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 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



Constituent: Vanadium Analysis Run 5/12/2020 1:56 PM
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Box & Whiskers Plot



Constituent: Zinc Analysis Run 5/12/2020 1:56 PM
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

FIGURE C.

Outlier Summary

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 4/28/2020, 3:04 PM

	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)	

FIGURE D.

State Parameters Intrawell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/21/2020, 12:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	GWC-3R	0.005	n/a	3/17/2020	0.011	Yes	18	n/a	n/a	n/a	100	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Zinc (mg/L)	GWC-5R	0.01798	n/a	3/18/2020	0.023	Yes	15	0.00738	0.004189	0	None	No	0.0005852	Param Intra 1 of 2	

State Parameters Intrawell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/21/2020, 12:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWA-2	0.003	n/a	3/17/2020	0.003ND	No	27	n/a	n/a	96.3	n/a	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-4R	0.003	n/a	3/18/2020	0.003ND	No	23	n/a	n/a	95.65	n/a	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Antimony (mg/L)	GWC-5R	0.003	n/a	3/18/2020	0.003ND	No	18	n/a	n/a	100	n/a	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWA-2	0.005	n/a	3/17/2020	0.005ND	No	27	n/a	n/a	100	n/a	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-1R	0.005	n/a	3/17/2020	0.005ND	No	18	n/a	n/a	88.89	n/a	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-2R	0.005	n/a	3/18/2020	0.005ND	No	23	n/a	n/a	100	n/a	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-3R	0.005	n/a	3/17/2020	0.0016	No	18	n/a	n/a	100	n/a	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-4R	0.005	n/a	3/18/2020	0.005ND	No	23	n/a	n/a	100	n/a	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-5R	0.005	n/a	3/18/2020	0.0008	No	18	n/a	n/a	72.22	n/a	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Arsenic (mg/L)	GWC-6R	0.005	n/a	3/17/2020	0.005ND	No	24	n/a	n/a	83.33	n/a	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Barium (mg/L)	GWA-2	0.07943	n/a	3/17/2020	0.047	No	27	0.05023	0.01305	0	None	No	No	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-1R	0.09203	n/a	3/17/2020	0.031	No	18	0.04614	0.01903	0	None	No	No	0.0005852	Param Intra 1 of 2
Barium (mg/L)	GWC-2R	0.13	n/a	3/18/2020	0.04	No	23	n/a	n/a	0	n/a	n/a	n/a	0.003415	NP Intra (normality) 1 of 2
Barium (mg/L)	GWC-3R	0.1072	n/a	3/17/2020	0.024	No	18	0.1832	0.05976	0	None	sqrt(x)	0.0005852	Param Intra 1 of 2	
Barium (mg/L)	GWC-4R	0.0778	n/a	3/18/2020	0.038	No	19	0.1732	0.04443	0	None	sqrt(x)	0.0005852	Param Intra 1 of 2	
Barium (mg/L)	GWC-5R	0.06311	n/a	3/18/2020	0.015	No	14	0.03304	0.01162	0	None	No	0.0005852	Param Intra 1 of 2	
Barium (mg/L)	GWC-6R	0.1025	n/a	3/17/2020	0.031	No	24	0.04776	0.02401	0	None	No	0.0005852	Param Intra 1 of 2	
Beryllium (mg/L)	GWC-1R	0.003	n/a	3/17/2020	0.000076	No	18	n/a	n/a	66.67	n/a	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-2R	0.003	n/a	3/18/2020	0.00012	No	23	n/a	n/a	95.65	n/a	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Beryllium (mg/L)	GWC-3R	0.003	n/a	3/17/2020	0.00095	No	18	n/a	n/a	38.89	n/a	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Beryllium (mg/L)	GWC-5R	0.003	n/a	3/18/2020	0.0028	No	18	n/a	n/a	38.89	n/a	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Cadmium (mg/L)	GWC-1R	0.001	n/a	3/17/2020	0.001ND	No	18	n/a	n/a	94.44	n/a	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-2R	0.001	n/a	3/18/2020	0.001ND	No	23	n/a	n/a	91.3	n/a	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-3R	0.001	n/a	3/17/2020	0.00037	No	18	n/a	n/a	88.89	n/a	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-4R	0.001	n/a	3/18/2020	0.001ND	No	23	n/a	n/a	95.65	n/a	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Cadmium (mg/L)	GWC-5R	0.001	n/a	3/18/2020	0.0012	No	18	n/a	n/a	44.44	n/a	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWA-2	0.01	n/a	3/17/2020	0.01ND	No	27	n/a	n/a	70.37	n/a	n/a	n/a	0.002502	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-1R	0.01	n/a	3/17/2020	0.001	No	18	n/a	n/a	61.11	n/a	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-2R	0.01	n/a	3/18/2020	0.0004	No	23	n/a	n/a	91.3	n/a	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-3R	0.01	n/a	3/17/2020	0.0013	No	18	n/a	n/a	33.33	n/a	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-4R	0.01	n/a	3/18/2020	0.01ND	No	23	n/a	n/a	82.61	n/a	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Chromium (mg/L)	GWC-5R	0.01	n/a	3/18/2020	0.0023	No	18	n/a	n/a	27.78	n/a	n/a	n/a	0.005373	NP Intra (normality) 1 of 2
Chromium (mg/L)	GWC-6R	0.01	n/a	3/17/2020	0.0013	No	24	n/a	n/a	41.67	n/a	n/a	n/a	0.003124	NP Intra (normality) 1 of 2
Cobalt (mg/L)	GWA-2	0.006994	n/a	3/17/2020	0.003	No	27	0.003556	0.001537	40.74	Kaplan-Meier	No	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-1R	0.008717	n/a	3/17/2020	0.00054	No	18	-6.613	0.7756	50	Kaplan-Meier	ln(x)	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-2R	0.04742	n/a	3/18/2020	0.019	No	23	0.02477	0.009863	4.348	None	No	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-3R	0.005	n/a	3/17/2020	0.011	Yes	18	n/a	n/a	100	n/a	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-4R	0.007137	n/a	3/18/2020	0.0031	No	23	0.002697	0.001934	34.78	Kaplan-Meier	No	No	0.0005852	Param Intra 1 of 2
Cobalt (mg/L)	GWC-5R	0.005	n/a	3/18/2020	0.00044	No	18	n/a	n/a	100	n/a	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Cobalt (mg/L)	GWC-6R	0.005	n/a	3/17/2020	0.005ND	No	24	n/a	n/a	95.83	n/a	n/a	n/a	0.003124	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWA-2	0.025	n/a	3/17/2020	0.00078	No	22	n/a	n/a	54.55	n/a	n/a	n/a	0.003707	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-1R	0.025	n/a	3/17/2020	0.0004	No	13	n/a	n/a	92.31	n/a	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-2R	0.005	n/a	3/18/2020	0.005ND	No	18	n/a	n/a	100	n/a	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-3R	0.025	n/a	3/17/2020	0.00039	No	13	n/a	n/a	76.92	n/a	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-4R	0.025	n/a	3/18/2020	0.00021	No	18	n/a	n/a	88.89	n/a	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-5R	0.025	n/a	3/18/2020	0.00097	No	13	n/a	n/a	92.31	n/a	n/a	n/a	0.009692	NP Intra (NDs) 1 of 2
Copper (mg/L)	GWC-6R	0.005	n/a	3/17/2020	0.00091	No	19	n/a	n/a	57.89	n/a	n/a	n/a	0.004832	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-1R	0.005	n/a	3/17/2020	0.005ND	No	18	n/a	n/a	100	n/a	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-2R	0.005	n/a	3/18/2020	0.005ND	No	23	n/a	n/a	91.3	n/a	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-3R	0.005	n/a	3/17/2020	0.00015	No	18	n/a	n/a	88.89	n/a	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Lead (mg/L)	GWC-5R	0.005	n/a	3/18/2020	0.000079	No	18	n/a	n/a	100	n/a	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-1R	0.01	n/a	3/17/2020	0.0017	No	18	n/a	n/a	66.67	n/a	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-2R	0.01	n/a	3/18/2020	0.0032	No	23	n/a	n/a	69.57	n/a	n/a	n/a	0.003415	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-3R	0.01	n/a	3/17/2020	0.0096	No	18	n/a	n/a	61.11	n/a	n/a	n/a	0.005373	NP Intra (NDs) 1 of 2
Selenium (mg/L)	GWC-4R	0.01548	n/a	3/18/2020	0.0046	No	23	0.007285	0.003569	34.78	Kaplan-Meier	No	No	0.0005852	Param Intra 1 of 2

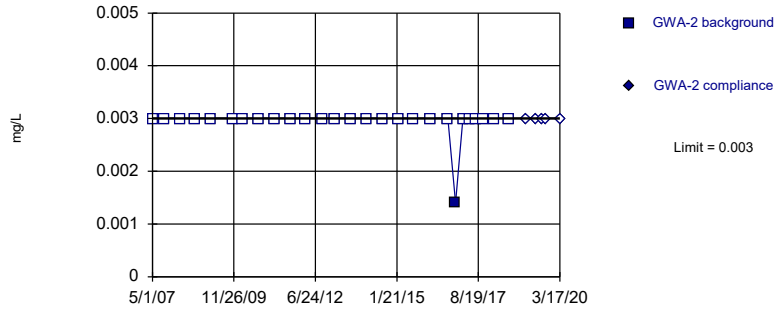
State Parameters Intrawell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/21/2020, 12:39 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg	NBg	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Selenium (mg/L)	GWC-5R	0.04273	n/a	3/18/2020	0.028	No	18	0.1371	0.02884	5.556	None	sqrt(x)	0.0005852	Param Intra	1 of 2
Selenium (mg/L)	GWC-6R	0.01	n/a	3/17/2020	0.0026	No	24	n/a	n/a	70.83	n/a	n/a	0.003124	NP Intra (NDs)	1 of 2
Thallium (mg/L)	GWA-2	0.001	n/a	3/17/2020	0.001ND	No	26	n/a	n/a	88.46	n/a	n/a	0.002667	NP Intra (NDs)	1 of 2
Thallium (mg/L)	GWC-2R	0.001	n/a	3/18/2020	0.001ND	No	21	n/a	n/a	95.24	n/a	n/a	0.003999	NP Intra (NDs)	1 of 2
Thallium (mg/L)	GWC-5R	0.001	n/a	3/18/2020	0.001ND	No	17	n/a	n/a	100	n/a	n/a	0.005914	NP Intra (NDs)	1 of 2
Zinc (mg/L)	GWA-2	0.009584	n/a	3/17/2020	0.01ND	No	23	0.004991	0.002	4.348	None	No	0.0005852	Param Intra	1 of 2
Zinc (mg/L)	GWC-1R	0.007102	n/a	3/17/2020	0.01ND	No	15	0.05264	0.0125	20	Kaplan-Meier	sqrt(x)	0.0005852	Param Intra	1 of 2
Zinc (mg/L)	GWC-2R	0.01249	n/a	3/18/2020	0.01ND	No	20	0.0653	0.01977	10	None	sqrt(x)	0.0005852	Param Intra	1 of 2
Zinc (mg/L)	GWC-3R	0.01462	n/a	3/17/2020	0.01ND	No	14	0.00605	0.003313	7.143	None	No	0.0005852	Param Intra	1 of 2
Zinc (mg/L)	GWC-4R	0.01	n/a	3/18/2020	0.01ND	No	19	n/a	n/a	63.16	n/a	n/a	0.004832	NP Intra (NDs)	1 of 2
Zinc (mg/L)	GWC-5R	0.01798	n/a	3/18/2020	0.023	Yes	15	0.00738	0.004189	0	None	No	0.0005852	Param Intra	1 of 2
Zinc (mg/L)	GWC-6R	0.01	n/a	3/17/2020	0.01ND	No	21	n/a	n/a	33.33	n/a	n/a	0.003999	NP Intra (normality)	1 of 2

Within Limit

Prediction Limit
Intrawell Non-parametric

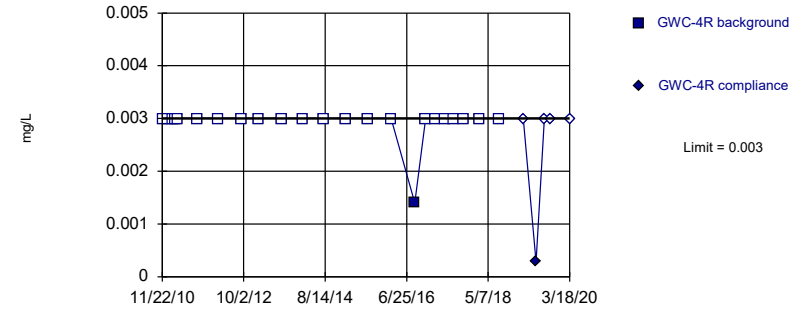


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Antimony Analysis Run 5/21/2020 12:36 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

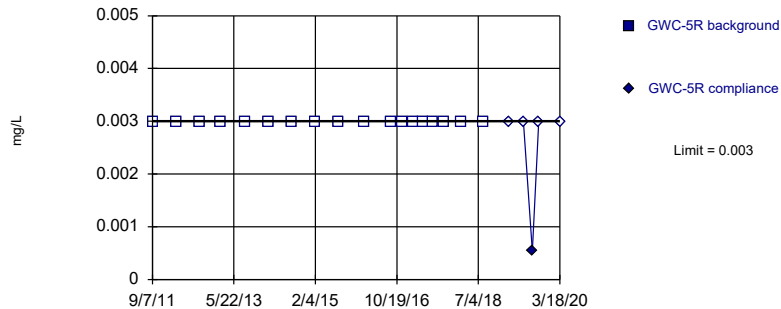


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Antimony Analysis Run 5/21/2020 12:36 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

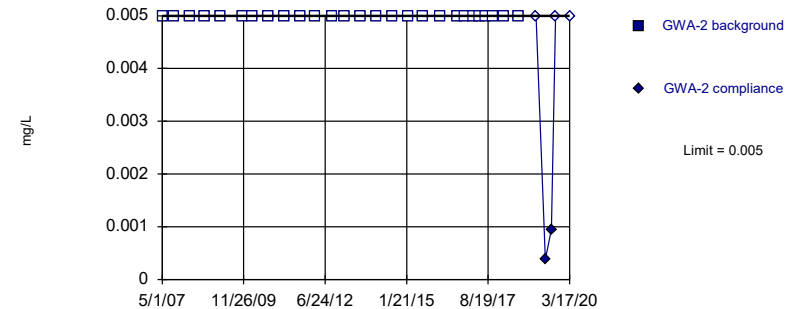


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Antimony Analysis Run 5/21/2020 12:36 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

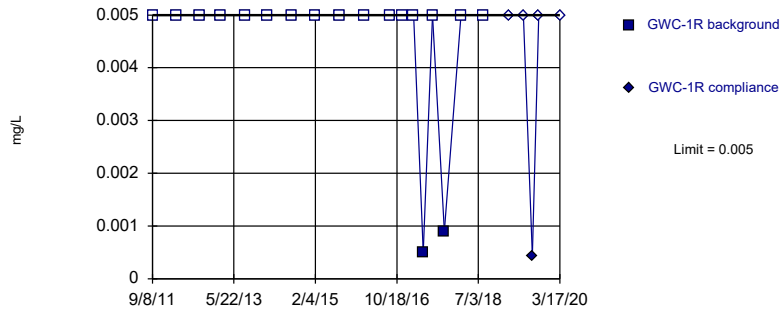


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 27) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Arsenic Analysis Run 5/21/2020 12:36 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

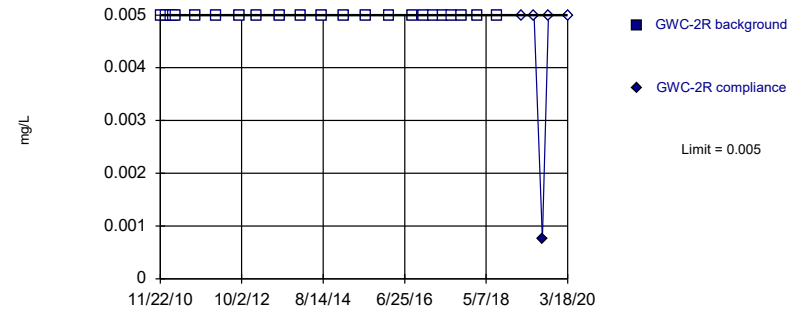


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Arsenic Analysis Run 5/21/2020 12:36 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

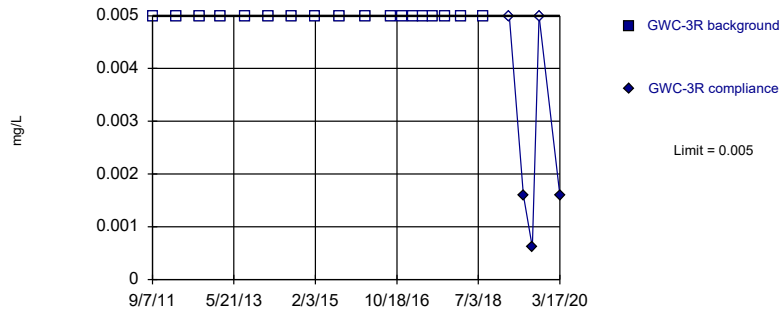


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Arsenic Analysis Run 5/21/2020 12:36 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

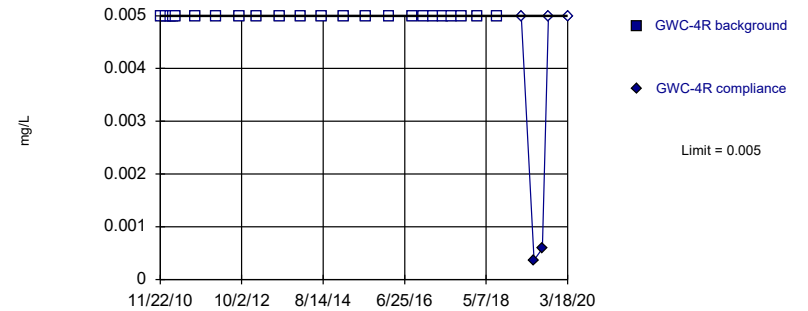


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Arsenic Analysis Run 5/21/2020 12:36 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

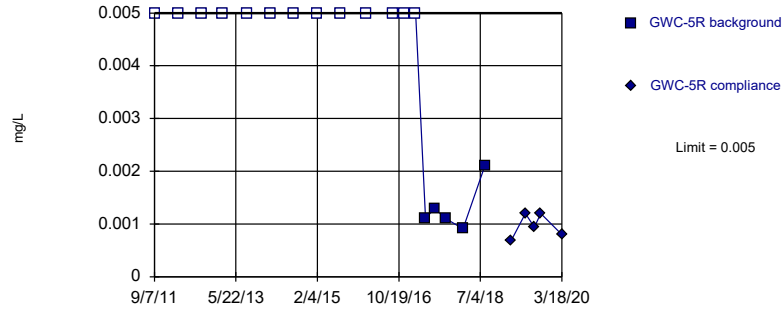


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Arsenic Analysis Run 5/21/2020 12:36 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

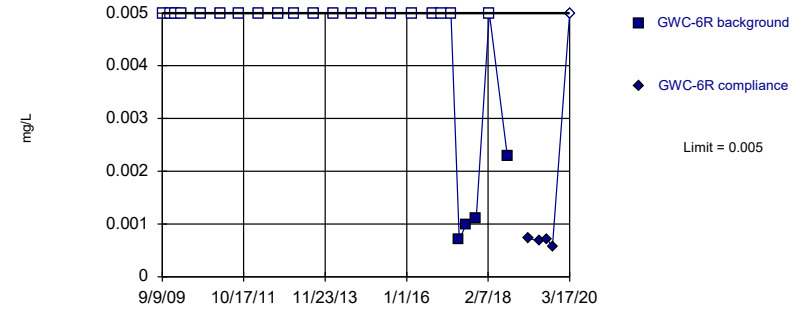


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 72.22% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Arsenic Analysis Run 5/21/2020 12:36 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

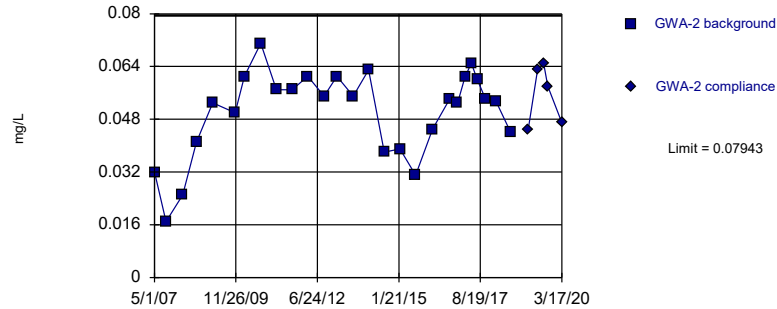


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Arsenic Analysis Run 5/21/2020 12:36 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

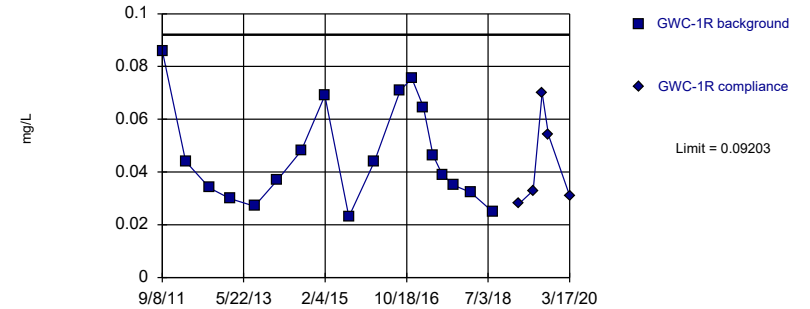


Background Data Summary: Mean=0.05023, Std. Dev.=0.01305, n=27. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.924, critical = 0.894. Kappa = 2.237 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Barium Analysis Run 5/21/2020 12:36 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

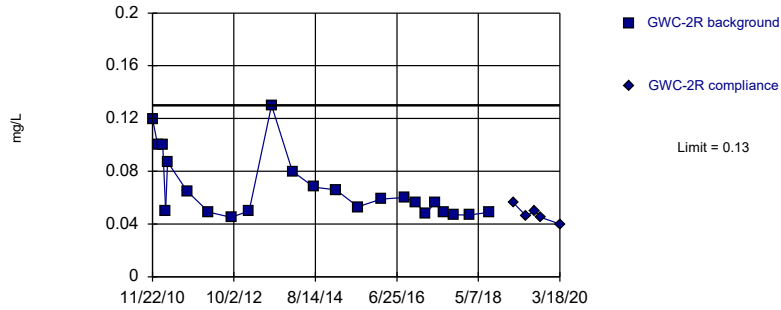


Background Data Summary: Mean=0.04614, Std. Dev.=0.01903, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9026, critical = 0.858. Kappa = 2.412 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Barium Analysis Run 5/21/2020 12:36 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

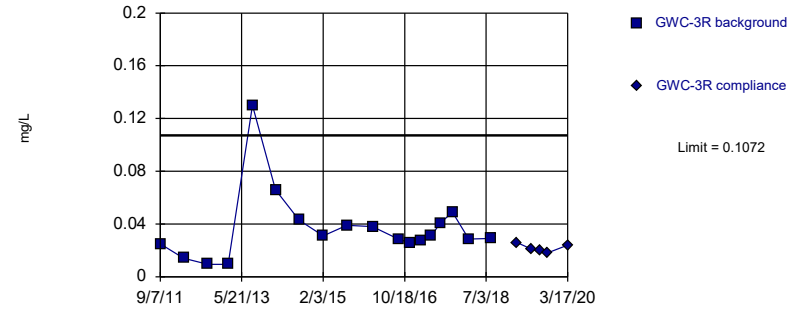


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 23 background values. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Barium Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

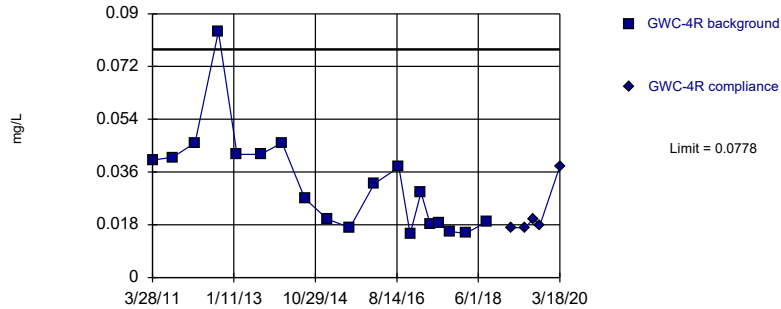


Background Data Summary (based on square root transformation): Mean=0.1832, Std. Dev.=0.05976, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8697, critical = 0.858. Kappa = 2.412 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Barium Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

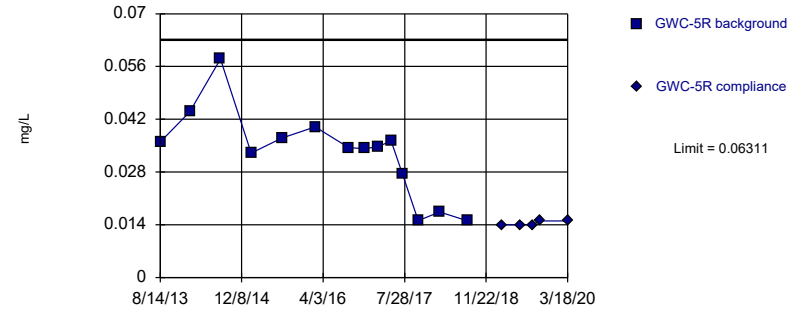


Background Data Summary (based on square root transformation): Mean=0.1732, Std. Dev.=0.04443, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8913, critical = 0.863. Kappa = 2.381 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Barium Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

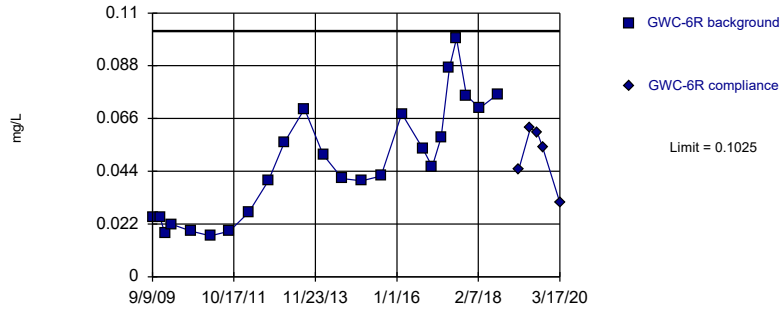


Background Data Summary: Mean=0.03304, Std. Dev.=0.01162, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.911, critical = 0.825. Kappa = 2.587 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Barium Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

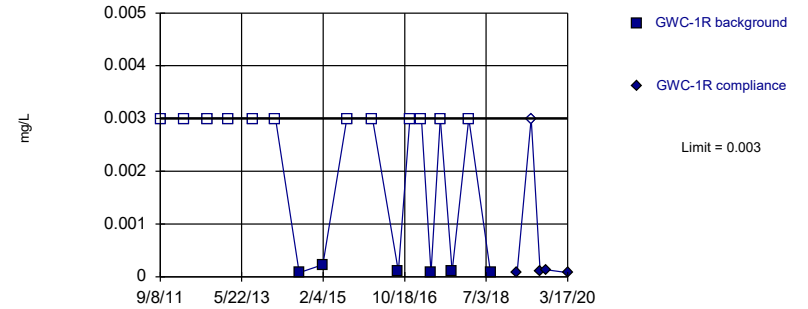


Background Data Summary: Mean=0.04776, Std. Dev.=0.02401, n=24. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9379, critical = 0.884. Kappa = 2.278 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Barium Analysis Run 5/21/2020 12:37 PM View: State Parameters
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

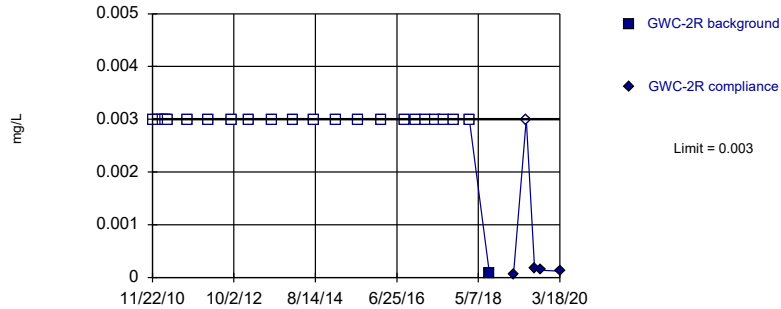


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Beryllium Analysis Run 5/21/2020 12:37 PM View: State Parameters
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

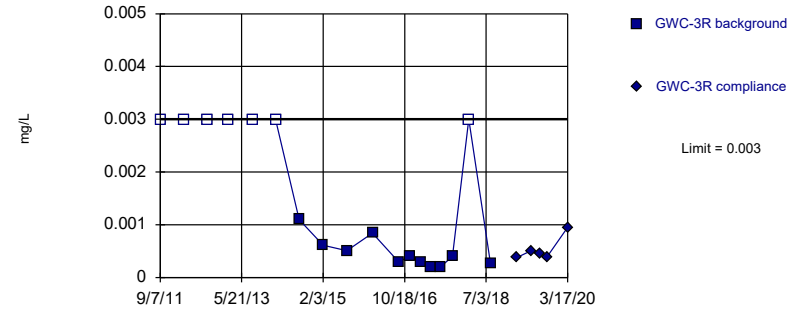


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Beryllium Analysis Run 5/21/2020 12:37 PM View: State Parameters
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

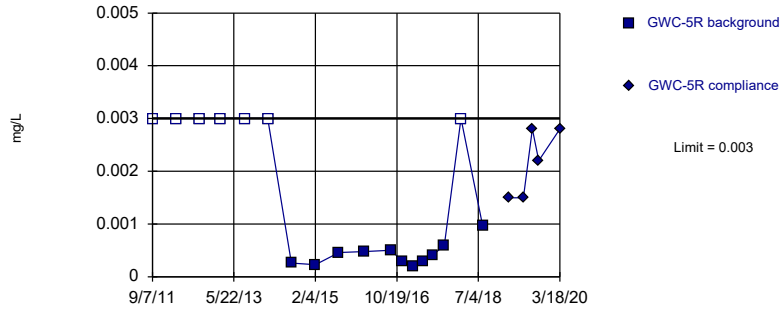


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 18 background values. 38.89% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Beryllium Analysis Run 5/21/2020 12:37 PM View: State Parameters
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

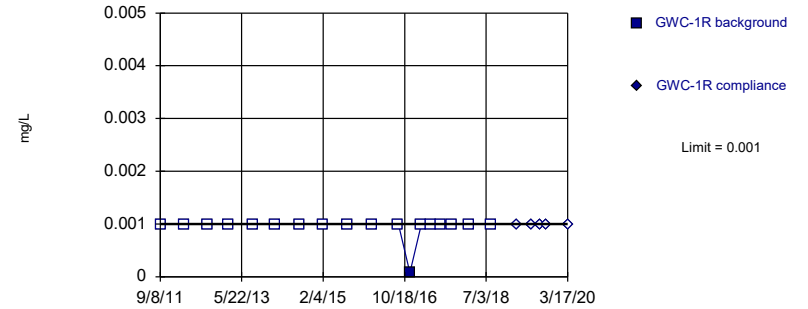


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 18 background values. 38.89% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Beryllium Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

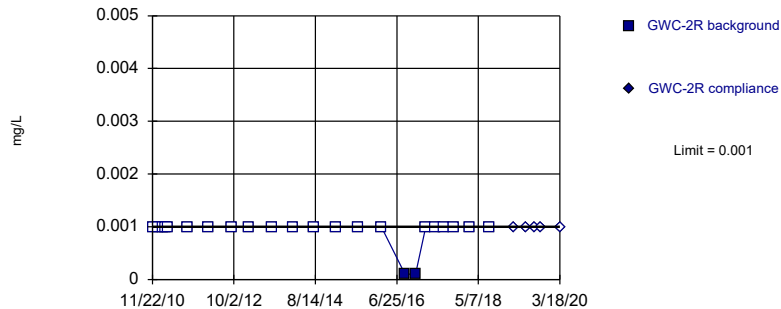


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 94.44% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Cadmium Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

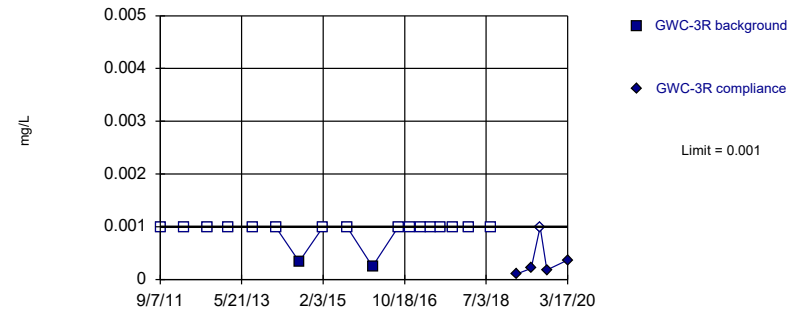


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Cadmium Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

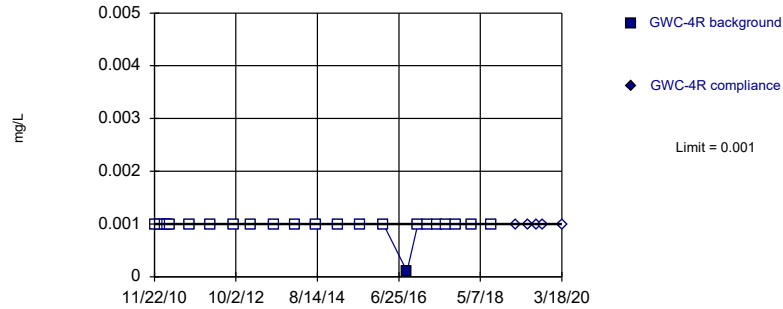


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Cadmium Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

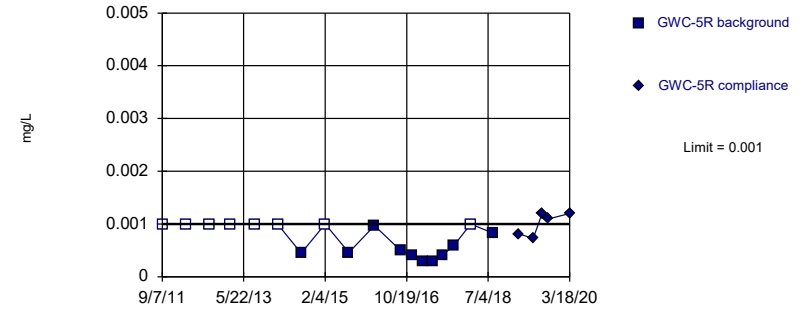


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Cadmium Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

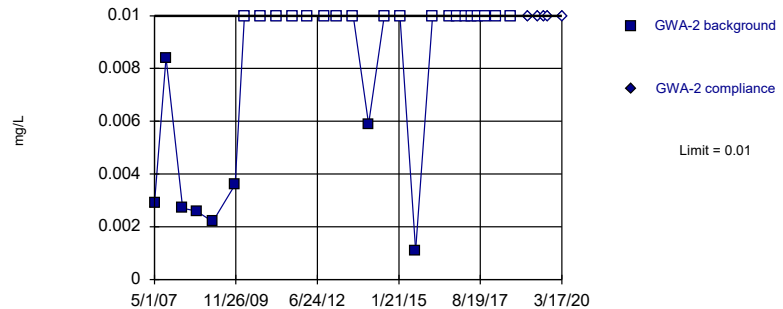


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 18 background values. 44.44% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Cadmium Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

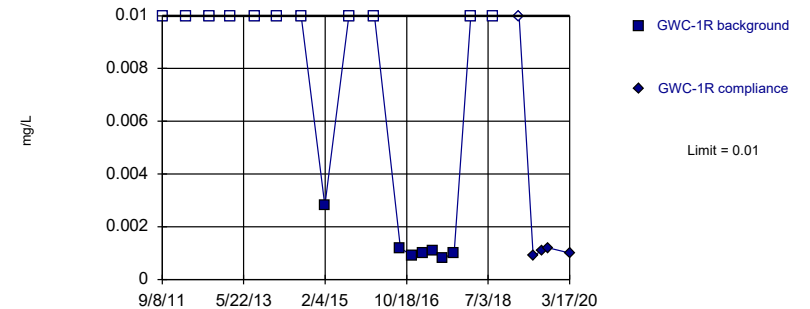


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 70.37% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Chromium Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

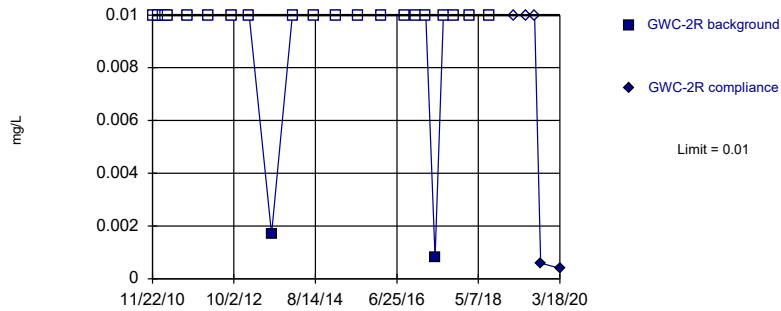


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 61.11% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Chromium Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

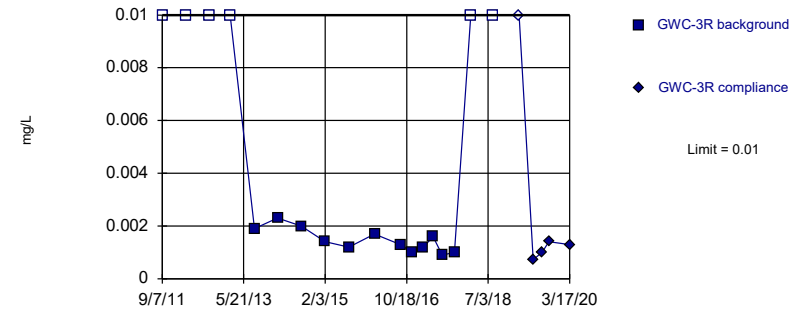


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Chromium Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

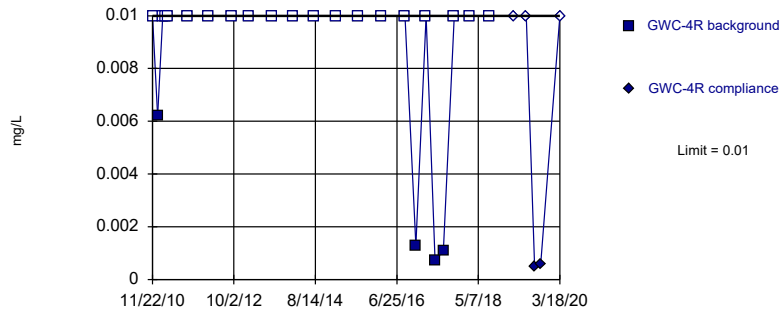


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 18 background values. 33.33% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Chromium Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

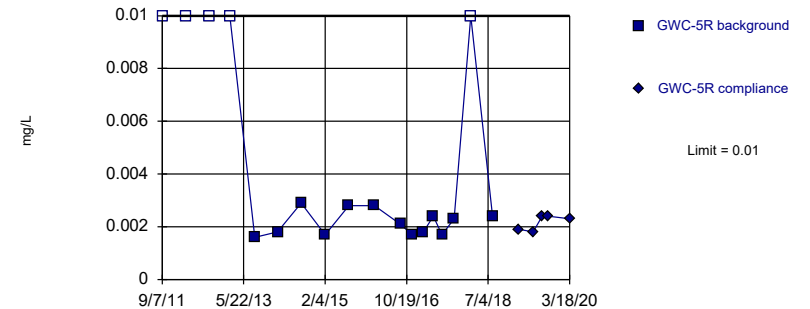


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 82.61% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Chromium Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

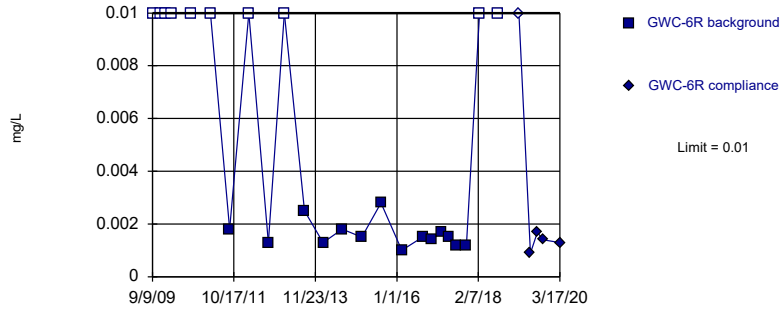


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 18 background values. 27.78% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Chromium Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

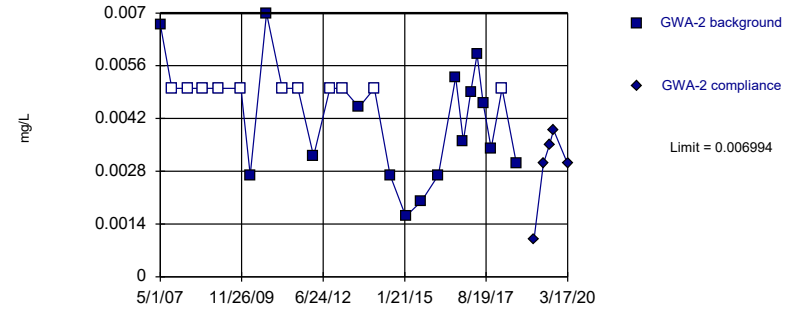


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 24 background values. 41.67% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Chromium Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

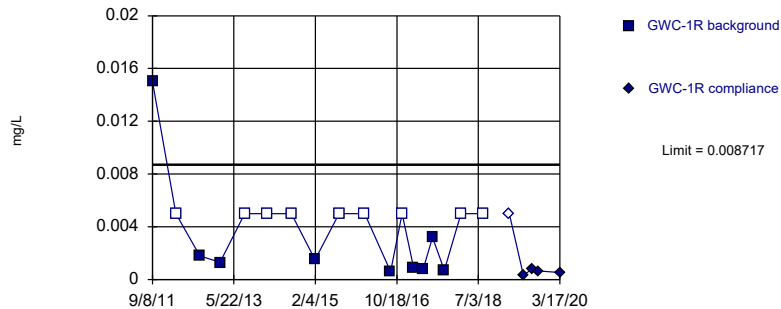


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.003556, Std. Dev.=0.001537, n=27, 40.74% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9046, critical = 0.894. Kappa = 2.237 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Cobalt Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

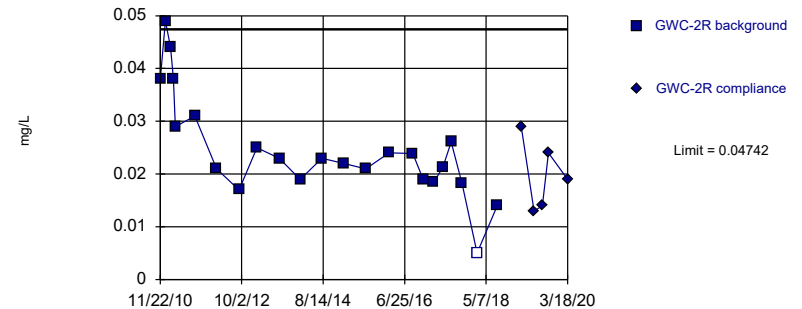


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-6.613, Std. Dev.=0.7756, n=18, 50% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8602, critical = 0.858. Kappa = 2.412 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Cobalt Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

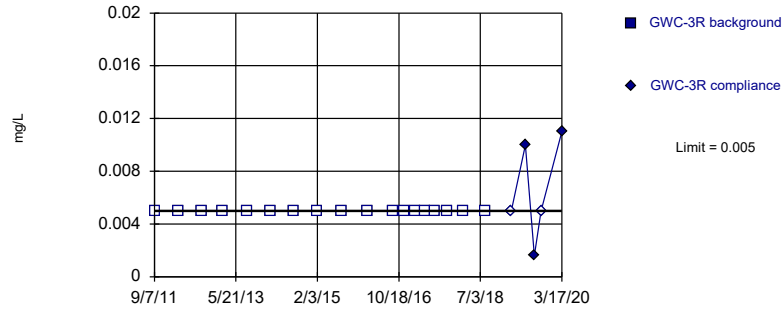


Background Data Summary: Mean=0.02477, Std. Dev.=0.009863, n=23, 4.348% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9174, critical = 0.881. Kappa = 2.296 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Cobalt Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Exceeds Limit

Prediction Limit
Intrawell Non-parametric

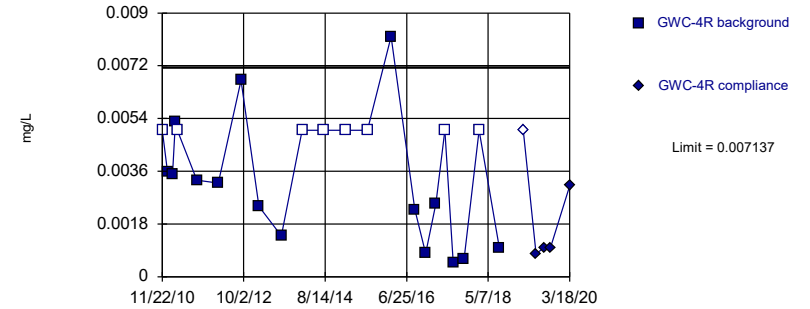


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Cobalt Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

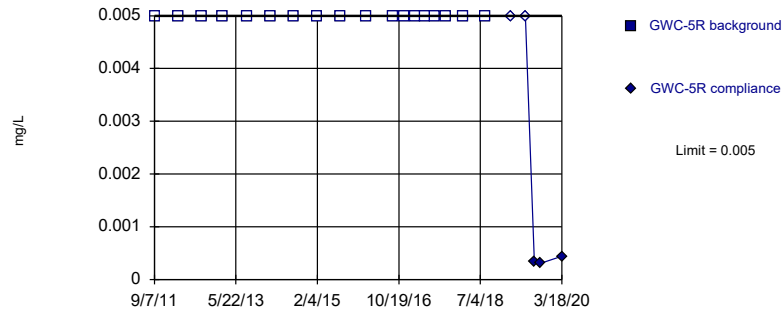


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002697, Std. Dev.=0.001934, n=23, 34.78% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9311, critical = 0.881. Kappa = 2.296 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Cobalt Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

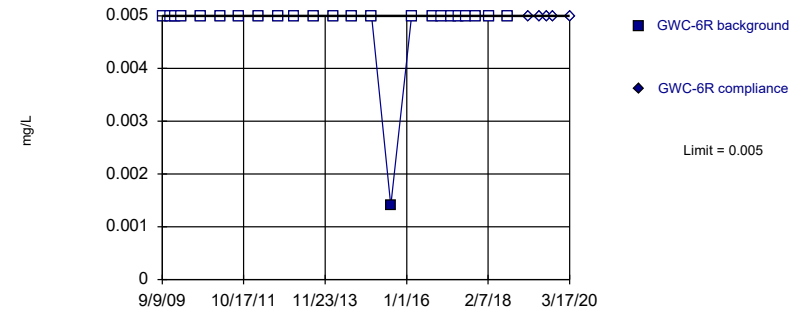


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Cobalt Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

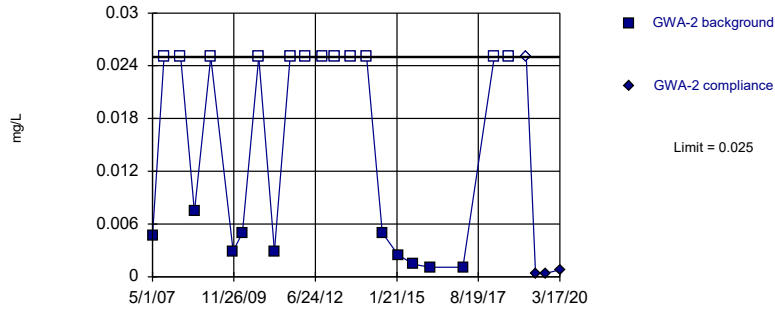


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cobalt Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

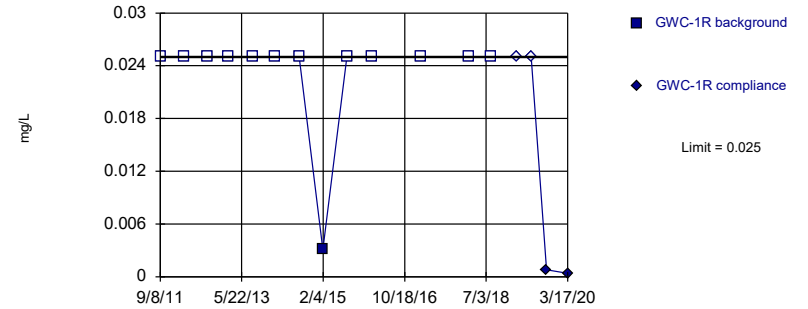


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 54.55% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Copper Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

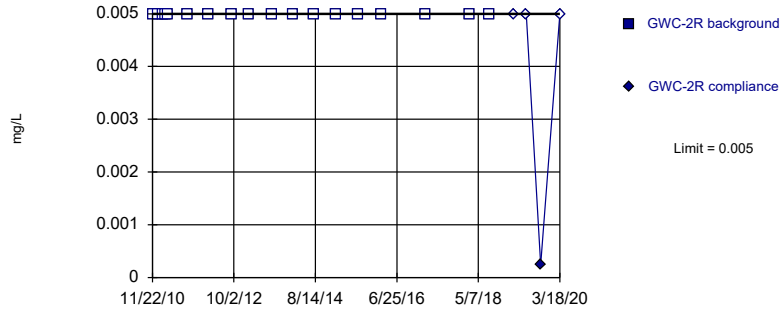


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 92.31% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Copper Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

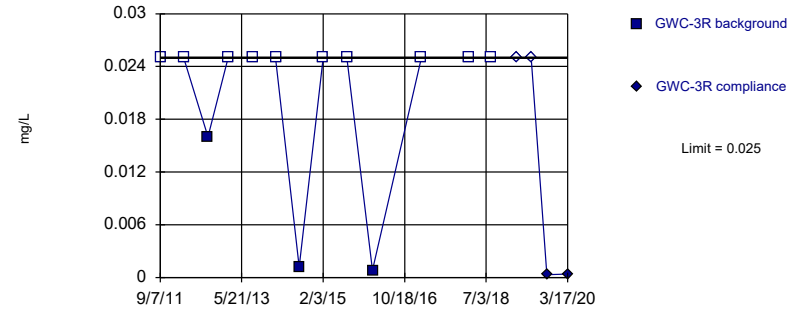


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Copper Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

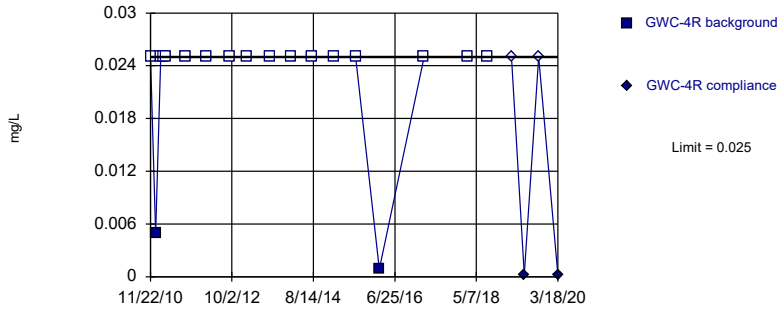


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 76.92% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Copper Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

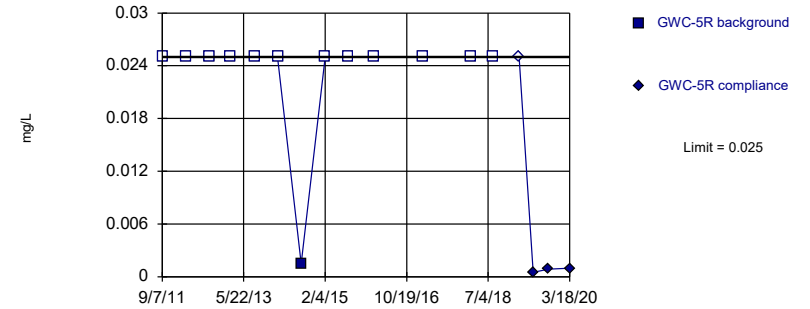


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Copper Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

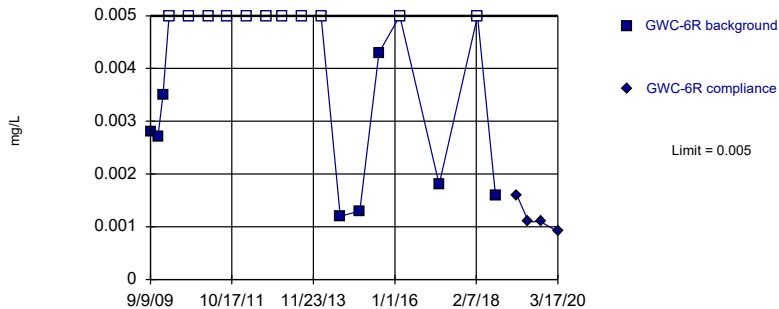


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 92.31% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Copper Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

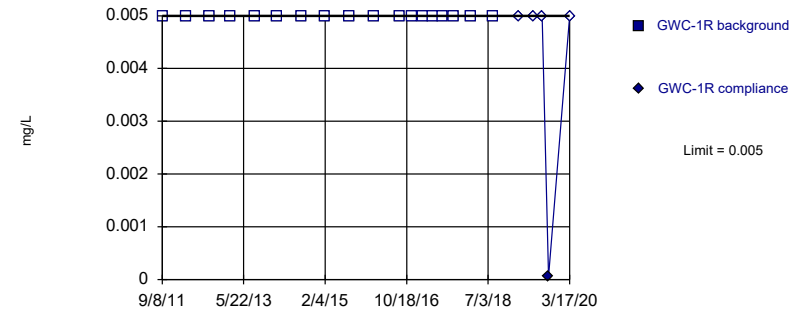


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 57.89% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Copper Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

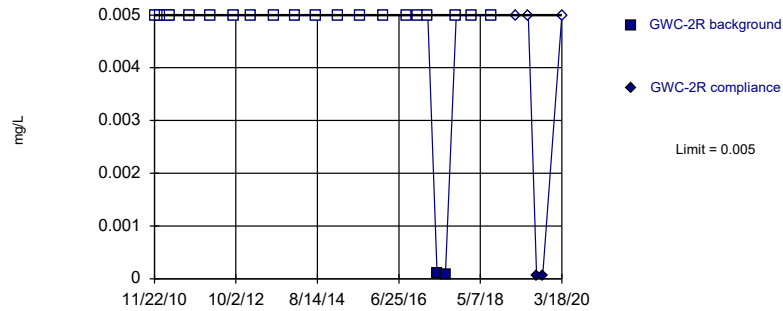


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Lead Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
 Intrawell Non-parametric

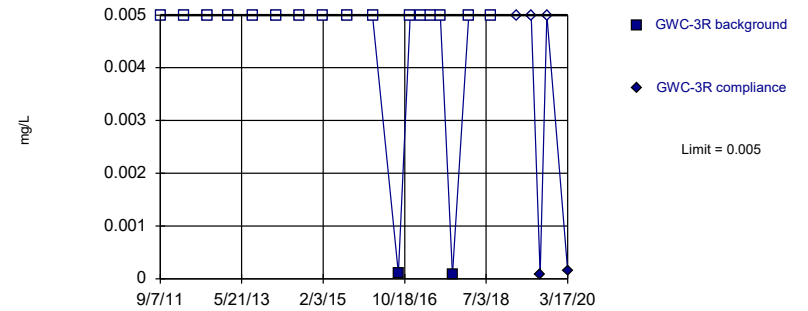


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Lead Analysis Run 5/21/2020 12:37 PM View: State Parameters
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
 Intrawell Non-parametric

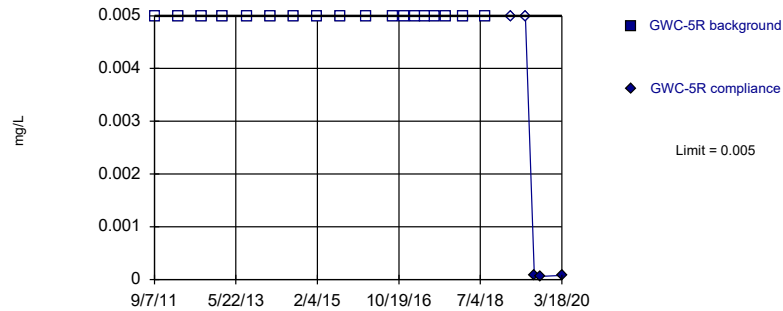


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Lead Analysis Run 5/21/2020 12:37 PM View: State Parameters
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
 Intrawell Non-parametric

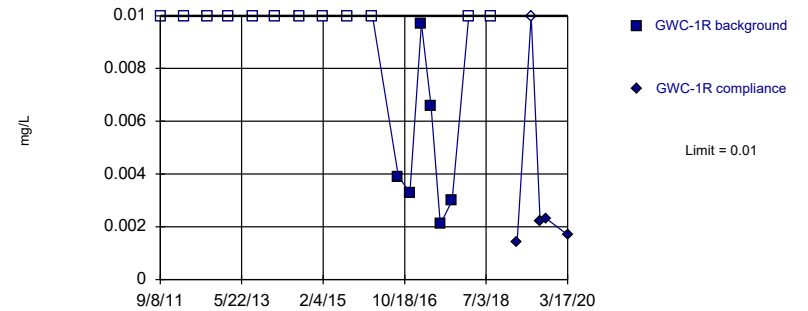


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Lead Analysis Run 5/21/2020 12:37 PM View: State Parameters
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
 Intrawell Non-parametric

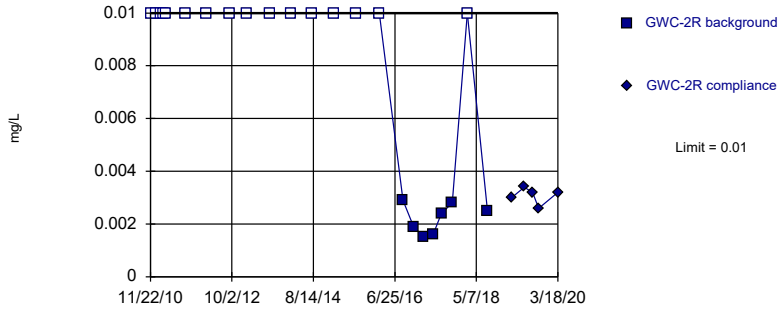


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Selenium Analysis Run 5/21/2020 12:37 PM View: State Parameters
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

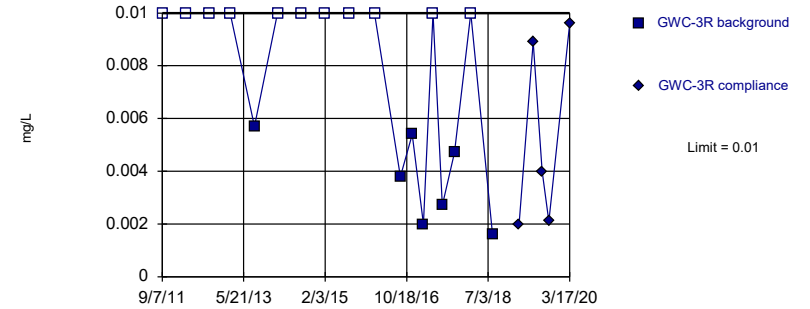


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 69.57% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Selenium Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

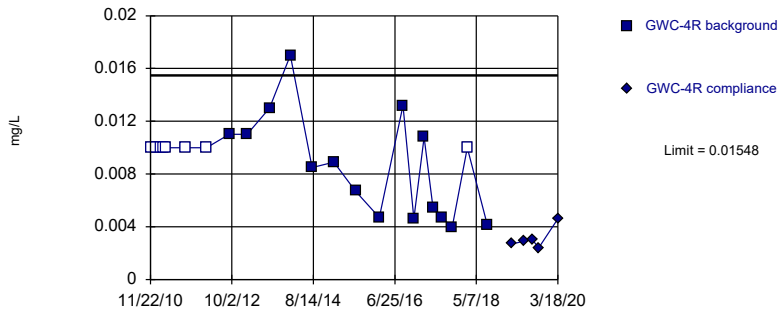


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 61.11% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Selenium Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

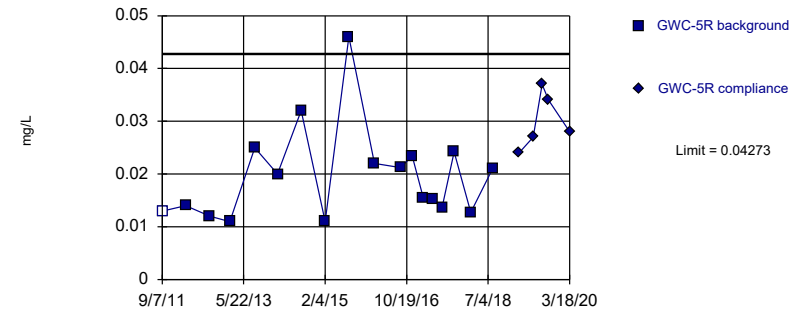


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.007285, Std. Dev.=0.003569, n=23, 34.78% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9085, critical = 0.881. Kappa = 2.296 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Selenium Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

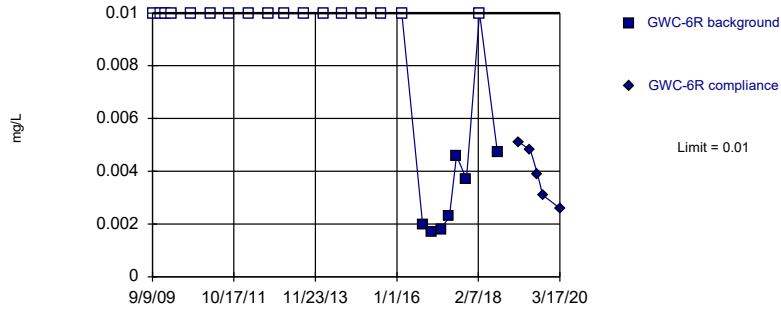


Background Data Summary (based on square root transformation): Mean=0.1371, Std. Dev.=0.02884, n=18, 5.556% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8922, critical = 0.858. Kappa = 2.412 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Selenium Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

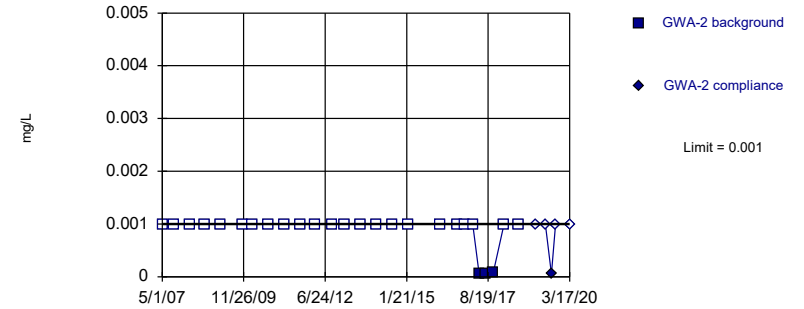


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 70.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Selenium Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

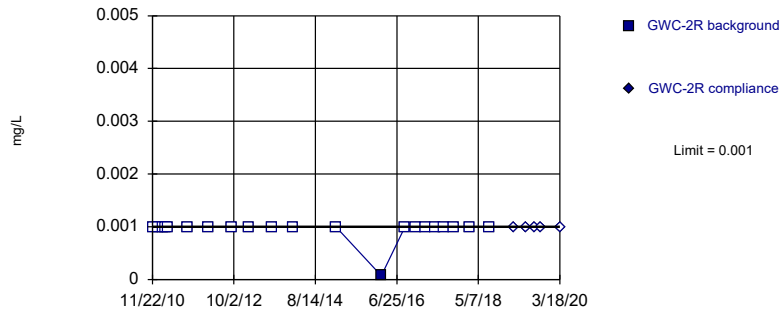


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 88.46% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Thallium Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

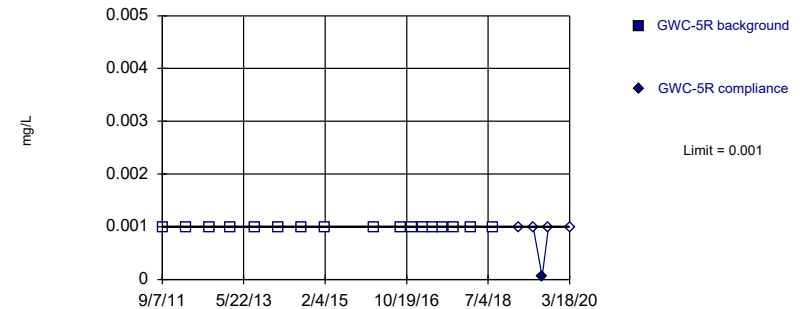


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 95.24% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Constituent: Thallium Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

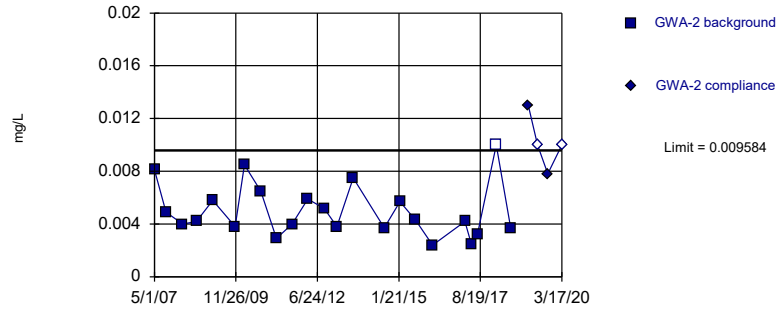


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 17) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Thallium Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

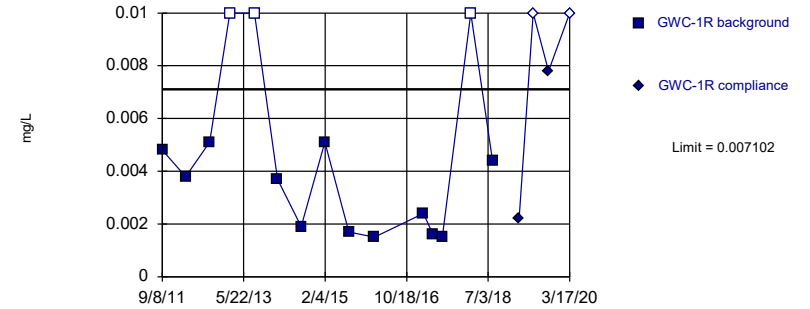


Background Data Summary: Mean=0.004991, Std. Dev.=0.002, n=23, 4.348% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9103, critical = 0.881. Kappa = 2.296 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Zinc Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

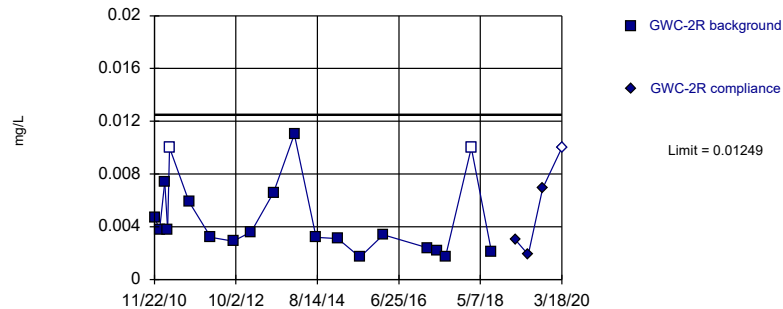


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.05264, Std. Dev.=0.0125, n=15, 20% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8675, critical = 0.835. Kappa = 2.53 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Zinc Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

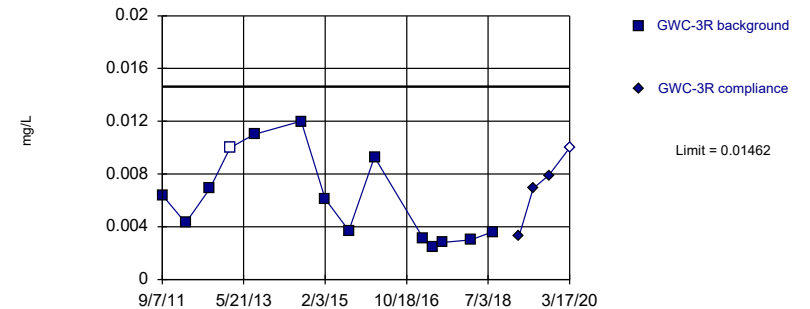


Background Data Summary (based on square root transformation): Mean=0.0653, Std. Dev.=0.01977, n=20, 10% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8938, critical = 0.868. Kappa = 2.35 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Zinc Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

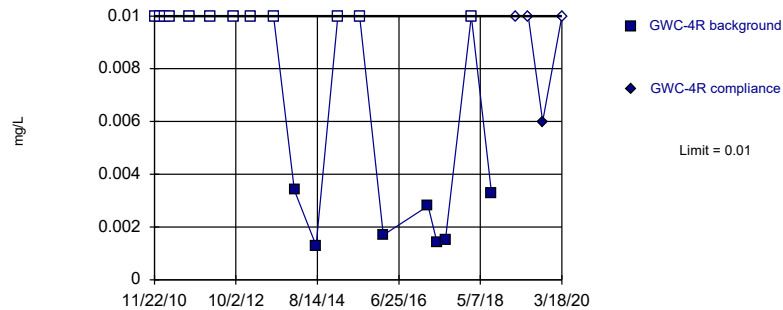


Background Data Summary: Mean=0.00605, Std. Dev.=0.003313, n=14, 7.143% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8788, critical = 0.825. Kappa = 2.587 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Zinc Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

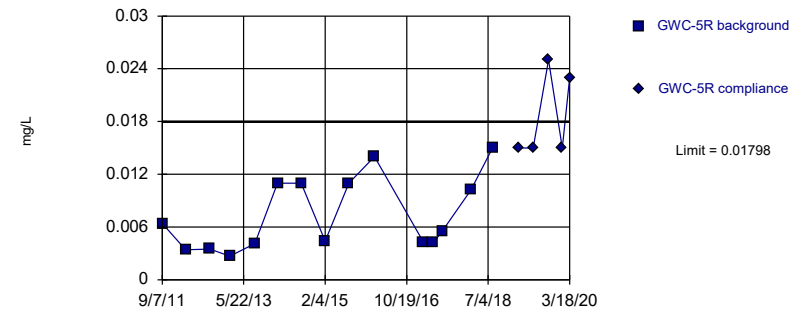


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 63.16% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Exceeds Limit

Prediction Limit
Intrawell Parametric

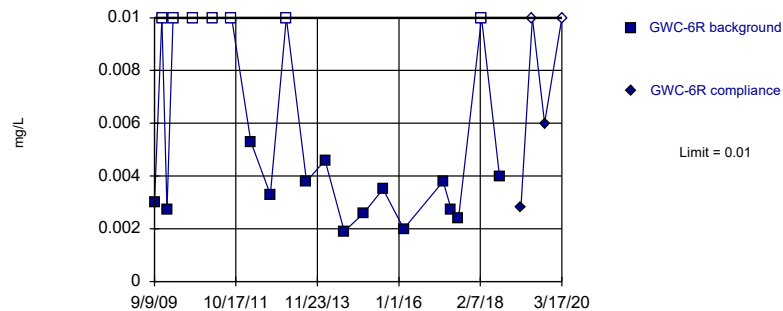


Background Data Summary: Mean=0.00738, Std. Dev.=0.004189, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8595, critical = 0.835. Kappa = 2.53 (c=15, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005852.

Constituent: Zinc Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 21 background values. 33.33% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Constituent: Zinc Analysis Run 5/21/2020 12:37 PM View: State Parameters
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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

Prediction Limit

Constituent: Antimony (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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)

Prediction Limit

Constituent: Arsenic (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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

Prediction Limit

Constituent: Barium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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)

Prediction Limit

Constituent: Beryllium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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	8E-05 (J)	
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		<0.001
3/17/2020		<0.001

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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	0.0001 (J)	
11/28/2016	0.0001 (J)	
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

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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	0.00034 (J)	
2/3/2015	<0.001	
8/3/2015	<0.001 (D)	
2/16/2016	0.00025 (J)	
8/31/2016	<0.001	
11/30/2016	<0.001	
2/23/2017	<0.001	
5/9/2017	<0.001	
7/18/2017	<0.001	
10/18/2017	<0.001	
2/21/2018	<0.001	
8/7/2018	<0.001	
2/26/2019		0.00011 (J)
6/13/2019		0.00021 (J)
8/21/2019		<0.001
10/10/2019		0.00018 (J)
3/17/2020		0.00037 (J)

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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	0.0001 (J)	
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

Prediction Limit

Constituent: Cadmium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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	<0.01	
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	0.0059	
8/5/2014	<0.01	
2/4/2015	<0.01	
8/3/2015	0.0011 (J)	
2/16/2016	<0.01	
8/31/2016	<0.01	
11/28/2016	<0.01	
2/22/2017	<0.01	
5/8/2017	<0.01	
7/17/2017	<0.01	
10/16/2017	<0.01	
2/19/2018	<0.01	
8/6/2018	<0.01	
2/25/2019		<0.01
6/12/2019		<0.01
8/19/2019		<0.01
10/8/2019		<0.01
3/17/2020		<0.01

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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	0.0017	
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	<0.01	
11/28/2016	<0.01	
2/22/2017	<0.01	
5/10/2017	0.0008 (J)	
7/18/2017	<0.01	
10/17/2017	<0.01	
2/20/2018	<0.01	
8/8/2018	<0.01	
2/26/2019		<0.01
6/12/2019		<0.01
8/20/2019		<0.01
10/9/2019		0.00059 (J)
3/18/2020		0.0004 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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	0.0019	
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	<0.01	
8/7/2018	<0.01	
2/26/2019		<0.01
6/13/2019		0.00073 (J)
8/21/2019		0.001 (J)
10/10/2019		0.0014 (J)
3/17/2020		0.0013 (J)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.01	
1/4/2011	0.0062	
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	
9/1/2016	<0.01	
11/30/2016	0.0013 (J)	
2/24/2017	<0.01	
5/10/2017	0.0007 (J)	
7/18/2017	0.0011 (J)	
10/17/2017	<0.01	
2/20/2018	<0.01	
8/8/2018	<0.01	
2/26/2019		<0.01
6/12/2019		<0.01
8/19/2019		0.00051 (J)
10/10/2019		0.00057 (J)
3/18/2020		<0.01

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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)

Prediction Limit

Constituent: Chromium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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)

Prediction Limit

Constituent: Cobalt (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2
5/1/2007	0.0047	
9/11/2007	<0.025	
3/20/2008	<0.025	
8/27/2008	0.0074	
3/3/2009	<0.025	
11/18/2009	0.0029	
3/3/2010	0.005	
9/8/2010	<0.025	
3/10/2011	0.0029	
9/8/2011	<0.025	
3/5/2012	<0.025	
9/10/2012	<0.025	
2/6/2013	<0.025	
8/12/2013	<0.025	
2/5/2014	<0.025	
8/5/2014	0.005	
2/4/2015	0.0025 (J)	
8/3/2015	0.0014 (J)	
2/16/2016	0.0011 (J)	
2/22/2017	0.0011 (J)	
2/19/2018	<0.025	
8/6/2018	<0.025	
2/25/2019		<0.025
6/12/2019		0.00034 (J)
10/8/2019		0.00041 (J)
3/17/2020		0.00078 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R
9/8/2011	<0.025	
3/5/2012	<0.025	
9/5/2012	<0.025	
2/5/2013	<0.025	
8/13/2013	<0.025	
2/4/2014	<0.025	
8/5/2014	<0.025	
2/2/2015	0.0031 (J)	
8/4/2015	<0.025 (D)	
2/16/2016	<0.025	
2/23/2017	<0.025	
2/21/2018	<0.025	
8/7/2018	<0.025	
2/26/2019		<0.025
6/13/2019		<0.025
10/9/2019		0.00079 (J)
3/17/2020		0.0004 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R
9/7/2011	<0.025	
3/5/2012	<0.025	
9/5/2012	0.016	
2/6/2013	<0.025	
8/13/2013	<0.025	
2/5/2014	<0.025	
8/4/2014	0.0012 (J)	
2/3/2015	<0.025	
8/3/2015	<0.025 (D)	
2/16/2016	0.00082 (J)	
2/23/2017	<0.025	
2/21/2018	<0.025	
8/7/2018	<0.025	
2/26/2019		<0.025
6/13/2019		<0.025
10/10/2019		0.00033 (J)
3/17/2020		0.00039 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R
11/22/2010	<0.025	
1/4/2011	0.0049	
2/17/2011	<0.025	
3/11/2011	<0.025	
3/28/2011	<0.025	
9/7/2011	<0.025	
3/4/2012	<0.025	
9/10/2012	<0.025	
2/6/2013	<0.025	
8/14/2013	<0.025	
2/4/2014	<0.025	
8/4/2014	<0.025	
2/2/2015	<0.025	
8/3/2015	<0.025 (D)	
2/16/2016	0.00088 (J)	
2/24/2017	<0.025	
2/20/2018	<0.025	
8/8/2018	<0.025	
2/26/2019		<0.025
6/12/2019		0.00025 (J)
10/10/2019		<0.025
3/18/2020		0.00021 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R
9/7/2011	<0.025	
3/5/2012	<0.025	
9/5/2012	<0.025	
2/5/2013	<0.025	
8/14/2013	<0.025	
2/5/2014	<0.025	
8/4/2014	0.0015 (J)	
2/3/2015	<0.025	
8/3/2015	<0.025 (D)	
2/16/2016	<0.025	
2/24/2017	<0.025	
2/21/2018	<0.025	
8/7/2018	<0.025	
2/26/2019		<0.025
6/13/2019		0.00049 (J)
10/9/2019		0.00087 (J)
3/18/2020		0.00097 (J)

Prediction Limit

Constituent: Copper (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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	<0.005	
7/18/2017	<0.005	
10/17/2017	<0.005	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019		<0.005
6/13/2019		<0.005
8/20/2019		<0.005
10/9/2019		5.2E-05 (J)
3/17/2020		<0.005

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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	0.0001 (J)	
7/18/2017	7E-05 (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
8/20/2019		6.1E-05 (J)
10/9/2019		5.7E-05 (J)
3/18/2020		<0.005

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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	0.0001 (J)	
11/30/2016	<0.005	
2/23/2017	<0.005	
5/9/2017	<0.005	
7/18/2017	<0.005	
10/18/2017	8E-05 (J)	
2/21/2018	<0.005	
8/7/2018	<0.005	
2/26/2019		<0.005
6/13/2019		<0.005
8/21/2019		8.2E-05 (J)
10/10/2019		<0.005
3/17/2020		0.00015 (J)

Prediction Limit

Constituent: Lead (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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		7E-05 (J)
10/9/2019		5.9E-05 (J)
3/18/2020		7.9E-05 (J)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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)

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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

Prediction Limit

Constituent: Selenium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R
9/9/2009	<0.01	
11/18/2009	<0.01	
1/5/2010	<0.01	
3/3/2010	<0.01	
9/7/2010	<0.01	
3/10/2011	<0.01	
9/8/2011	<0.01	
3/5/2012	<0.01	
9/5/2012	<0.01	
2/5/2013	<0.01	
8/13/2013	<0.01	
2/4/2014	<0.01	
8/5/2014	<0.01	
2/3/2015	<0.01	
8/4/2015	<0.01	
2/16/2016	<0.01	
9/1/2016	0.002 (J)	
11/29/2016	0.0017 (J)	
2/23/2017	0.0018 (J)	
5/10/2017	0.0023 (J)	
7/18/2017	0.0046 (J)	
10/18/2017	0.0037 (J)	
2/19/2018	<0.01	
8/6/2018	0.0047 (J)	
2/25/2019		0.0051 (J)
6/13/2019		0.0048 (J)
8/20/2019		0.0039 (J)
10/8/2019		0.0031 (J)
3/17/2020		0.0026 (J)

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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

Prediction Limit

Constituent: Thallium (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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	
2/5/2014	0.018 (o)	
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

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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

Prediction Limit

Constituent: Zinc (mg/L) Analysis Run 5/21/2020 12:39 PM View: State Parameters

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

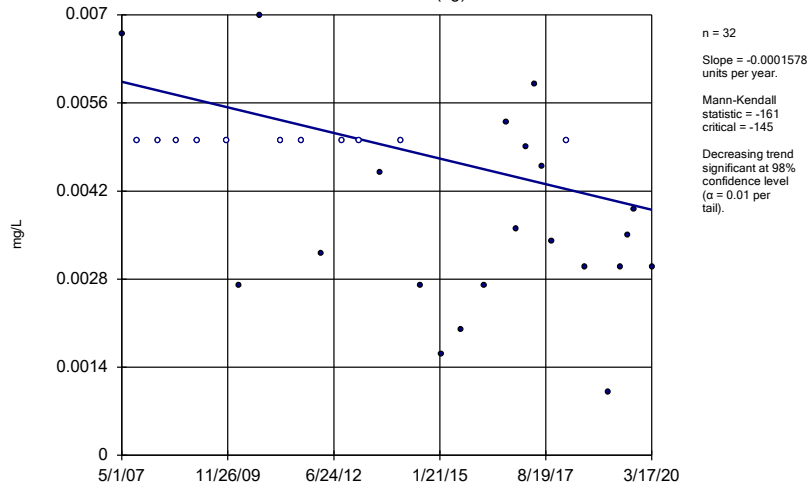
FIGURE E.

State Parameters Trend Tests - PL Exceedances - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/7/2020, 4:51 PM

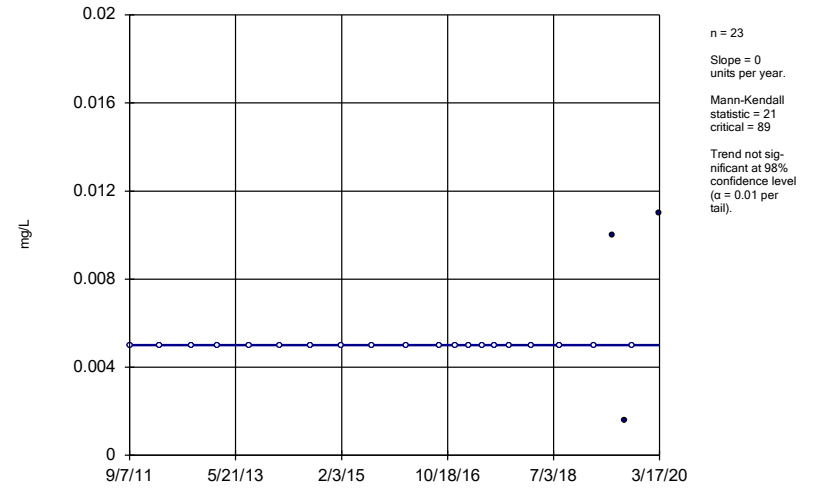
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Cobalt (mg/L)	GWA-2 (bg)	-0.0001578	-161	-145	Yes	32	34.38	n/a	n/a	0.02	NP
Cobalt (mg/L)	GWC-3R	0	21	89	No	23	86.96	n/a	n/a	0.02	NP
Zinc (mg/L)	GWA-2 (bg)	-0.00003672	-24	-112	No	27	11.11	n/a	n/a	0.02	NP
Zinc (mg/L)	GWC-5R	0.001695	115	73	Yes	20	0	n/a	n/a	0.02	NP

Sen's Slope Estimator
GWA-2 (bg)



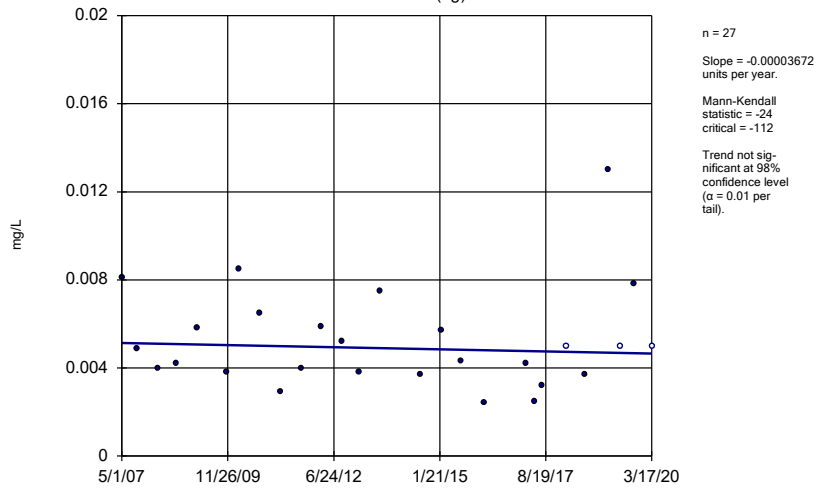
Constituent: Cobalt Analysis Run 5/7/2020 4:50 PM View: State Parameters - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
GWC-3R



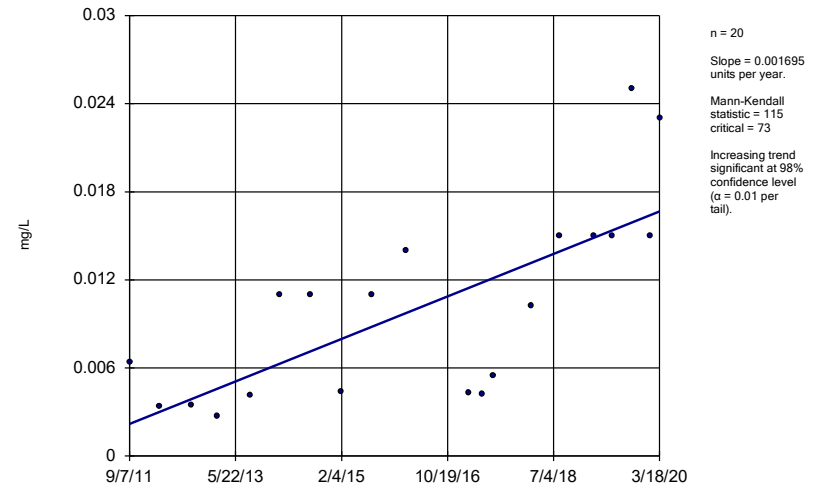
Constituent: Cobalt Analysis Run 5/7/2020 4:50 PM View: State Parameters - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
GWA-2 (bg)



Constituent: Zinc Analysis Run 5/7/2020 4:50 PM View: State Parameters - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
GWC-5R



Constituent: Zinc Analysis Run 5/7/2020 4:50 PM View: State Parameters - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

FIGURE F.

Appendix III Intrawell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/7/2020, 2:14 PM

Constituent	Well	Upper Lim.	Lower Lim	Date	Observ.	Sig.	Bg	NBq	Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
pH (S.U.)	GWC-1R	5.52	4.49	3/17/2020	5.7	Yes	9	n/a	n/a	n/a	0	n/a	0.03619	NP (normality) 1 of 2

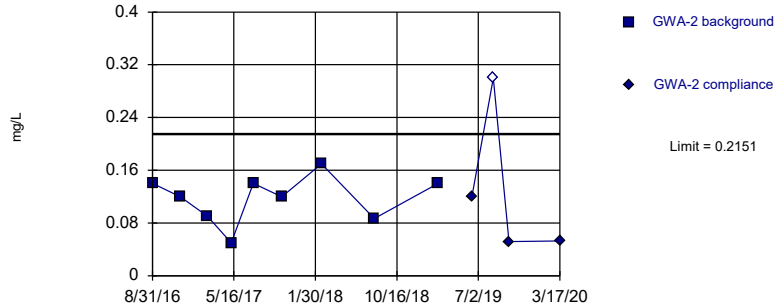
Appendix III Intrawell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/7/2020, 2:14 PM

Constituent	Well	Upper Lim.	Lower Lim	Date	Observ.	Sig.	Bg	NB	Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Fluoride (mg/L)	GWA-2	0.2151	n/a	3/17/2020	0.053	No	9	0.1174	0.03628	0	None	0.001254	Param 1 of 2	
Fluoride (mg/L)	GWC-1R	0.3	n/a	3/17/2020	0.3ND	No	9	n/a	n/a	55.56	n/a	0.01809	NP (NDs) 1 of 2	
Fluoride (mg/L)	GWC-2R	0.3	n/a	3/18/2020	0.3ND	No	9	n/a	n/a	55.56	n/a	0.01809	NP (NDs) 1 of 2	
Fluoride (mg/L)	GWC-3R	0.3	n/a	3/17/2020	0.1	No	9	n/a	n/a	55.56	n/a	0.01809	NP (NDs) 1 of 2	
Fluoride (mg/L)	GWC-4R	0.3	n/a	3/18/2020	0.3ND	No	9	n/a	n/a	55.56	n/a	0.01809	NP (NDs) 1 of 2	
Fluoride (mg/L)	GWC-5R	0.37	n/a	3/18/2020	0.3ND	No	9	n/a	n/a	55.56	n/a	0.01809	NP (NDs) 1 of 2	
Fluoride (mg/L)	GWC-6R	0.3	n/a	3/17/2020	0.3ND	No	9	n/a	n/a	55.56	n/a	0.01809	NP (NDs) 1 of 2	
pH (S.U.)	GWA-2	7.106	5.427	3/17/2020	6.14	No	21	6.266	0.401	0	None	0.0006268	Param 1 of 2	
pH (S.U.)	GWC-1R	5.52	4.49	3/17/2020	5.7	Yes	9	n/a	n/a	0	n/a	0.03619	NP (normality) 1 of 2	
pH (S.U.)	GWC-2R	6.8	4.35	3/18/2020	5.38	No	16	n/a	n/a	0	n/a	0.01291	NP (normality) 1 of 2	
pH (S.U.)	GWC-3R	5.28	4.31	3/17/2020	5.03	No	9	n/a	n/a	0	n/a	0.03619	NP (normality) 1 of 2	
pH (S.U.)	GWC-4R	6.245	4.827	3/18/2020	5.58	No	10	5.536	0.2783	0	None	0.0006268	Param 1 of 2	
pH (S.U.)	GWC-5R	5.711	4.765	3/18/2020	4.88	No	9	5.238	0.1758	0	None	0.0006268	Param 1 of 2	
pH (S.U.)	GWC-6R	6.687	5.169	3/17/2020	5.97	No	19	5.928	0.3559	0	None	0.0006268	Param 1 of 2	

Within Limit

Prediction Limit
Intrawell Parametric

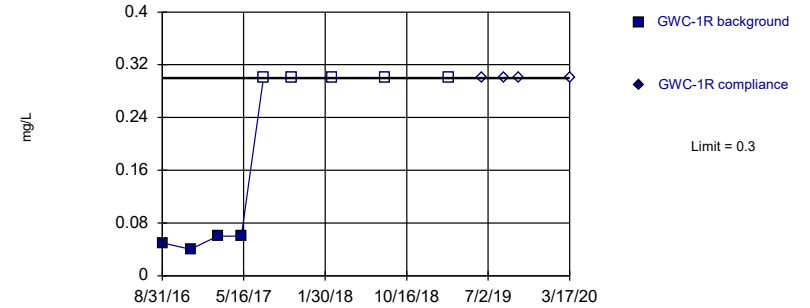


Background Data Summary: Mean=0.1174, Std. Dev.=0.03628, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9425, critical = 0.764. Kappa = 2.69 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: Fluoride Analysis Run 5/7/2020 2:11 PM View: Appendix III - Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

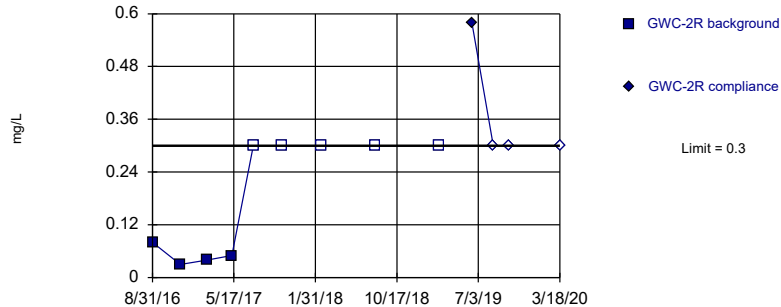


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.03586. Individual comparison alpha = 0.01809 (1 of 2).

Constituent: Fluoride Analysis Run 5/7/2020 2:11 PM View: Appendix III - Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

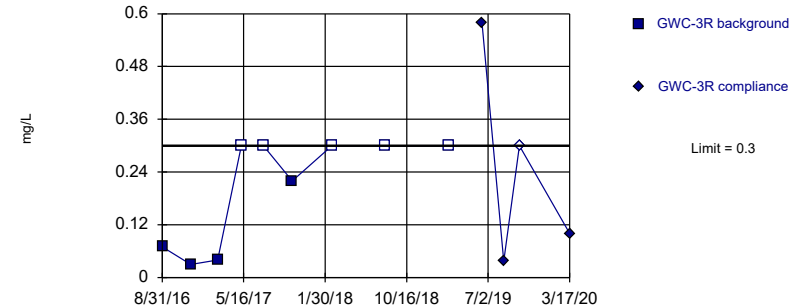


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.03586. Individual comparison alpha = 0.01809 (1 of 2).

Constituent: Fluoride Analysis Run 5/7/2020 2:11 PM View: Appendix III - Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

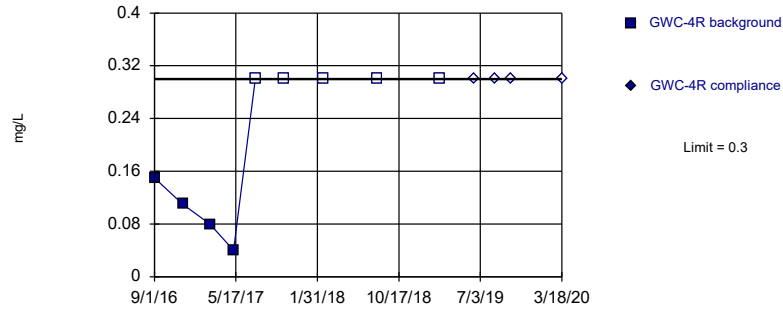


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.03586. Individual comparison alpha = 0.01809 (1 of 2).

Constituent: Fluoride Analysis Run 5/7/2020 2:11 PM View: Appendix III - Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

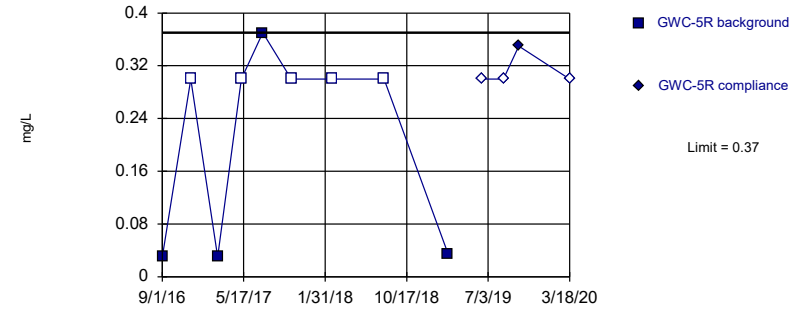


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.03586. Individual comparison alpha = 0.01809 (1 of 2).

Constituent: Fluoride Analysis Run 5/7/2020 2:11 PM View: Appendix III - Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

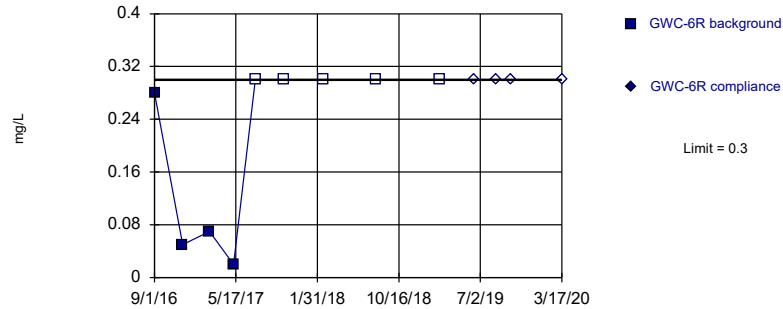


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.03586. Individual comparison alpha = 0.01809 (1 of 2).

Constituent: Fluoride Analysis Run 5/7/2020 2:11 PM View: Appendix III - Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

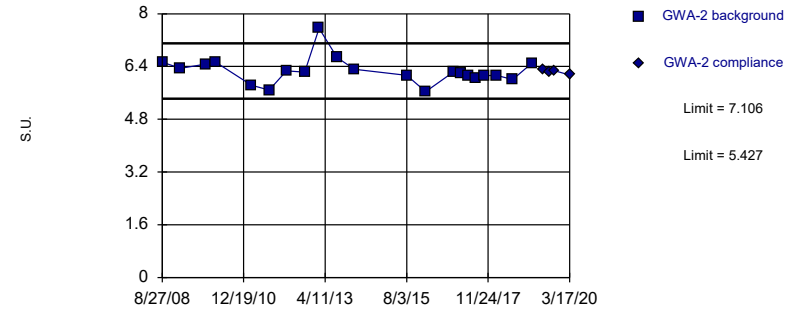


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 9 background values. 55.56% NDs. Well-constituent pair annual alpha = 0.03586. Individual comparison alpha = 0.01809 (1 of 2).

Constituent: Fluoride Analysis Run 5/7/2020 2:11 PM View: Appendix III - Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limits

Prediction Limit
Intrawell Parametric

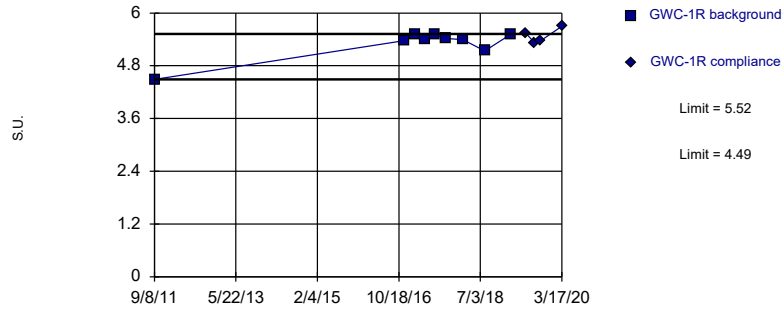


Background Data Summary: Mean=6.266, Std. Dev.=0.401, n=21. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8754, critical = 0.873. Kappa = 2.094 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: pH Analysis Run 5/7/2020 2:11 PM View: Appendix III - Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Exceeds Limits

Prediction Limit
Intrawell Non-parametric

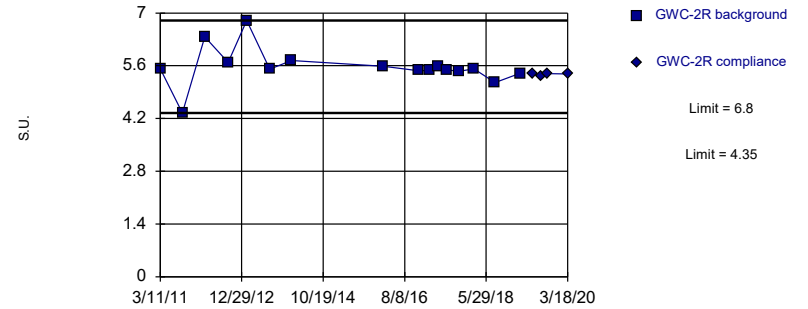


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 9 background values. Well-constituent pair annual alpha = 0.07172. Individual comparison alpha = 0.03619 (1 of 2).

Constituent: pH Analysis Run 5/7/2020 2:11 PM View: Appendix III - Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limits

Prediction Limit
Intrawell Non-parametric

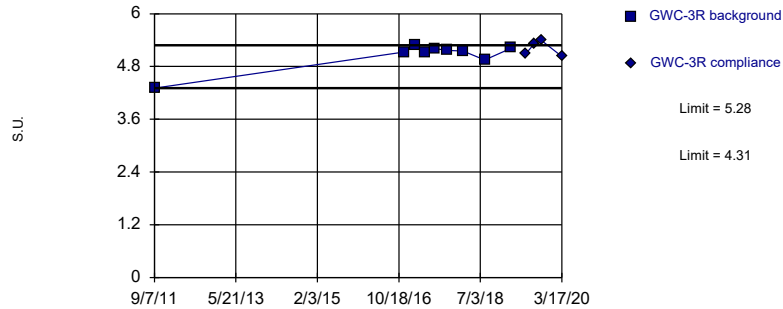


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 16 background values. Well-constituent pair annual alpha = 0.02574. Individual comparison alpha = 0.01291 (1 of 2).

Constituent: pH Analysis Run 5/7/2020 2:11 PM View: Appendix III - Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limits

Prediction Limit
Intrawell Non-parametric

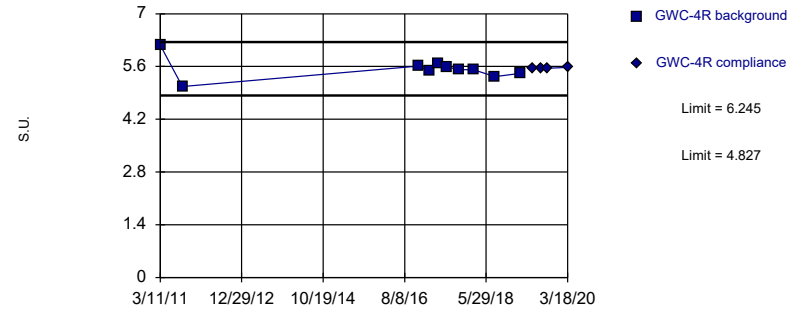


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 9 background values. Well-constituent pair annual alpha = 0.07172. Individual comparison alpha = 0.03619 (1 of 2).

Constituent: pH Analysis Run 5/7/2020 2:11 PM View: Appendix III - Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limits

Prediction Limit
Intrawell Parametric

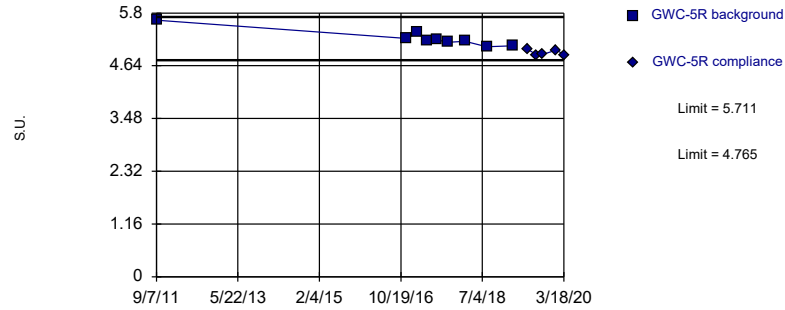


Background Data Summary: Mean=5.536, Std. Dev.=0.2783, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9104, critical = 0.781. Kappa = 2.549 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: pH Analysis Run 5/7/2020 2:11 PM View: Appendix III - Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limits

Prediction Limit
Intrawell Parametric

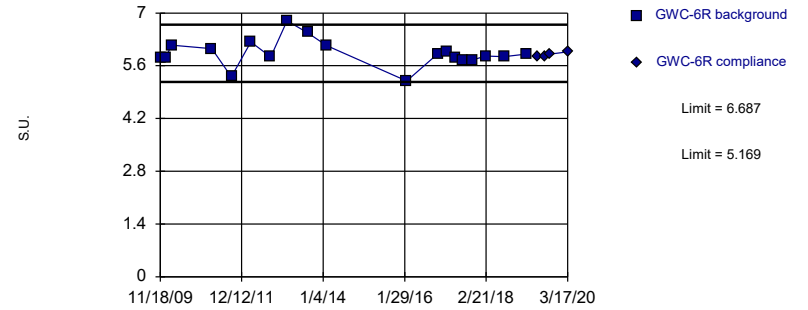


Background Data Summary: Mean=5.238, Std. Dev.=0.1758, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8341, critical = 0.764. Kappa = 2.69 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: pH Analysis Run 5/7/2020 2:11 PM View: Appendix III - Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limits

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=5.928, Std. Dev.=0.3559, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9219, critical = 0.863. Kappa = 2.132 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: pH Analysis Run 5/7/2020 2:11 PM View: Appendix III - Intrawell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/7/2020 2:14 PM 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)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/7/2020 2:14 PM 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	<0.3	
10/17/2017	<0.3	
2/21/2018	<0.3	
8/7/2018	<0.3	
2/26/2019	<0.3	
6/13/2019		<0.3
8/20/2019		<0.3
10/9/2019		<0.3
3/17/2020		<0.3

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/7/2020 2:14 PM 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	<0.3	
10/17/2017	<0.3	
2/20/2018	<0.3	
8/8/2018	<0.3	
2/26/2019	<0.3	
6/12/2019		0.58
8/20/2019		<0.3
10/9/2019		<0.3
3/18/2020		<0.3

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/7/2020 2:14 PM 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	<0.3	
7/18/2017	<0.3	
10/18/2017	0.22 (J)	
2/21/2018	<0.3	
8/7/2018	<0.3	
2/26/2019	<0.3	
6/13/2019		0.58
8/21/2019		0.037 (J)
10/10/2019		<0.3
3/17/2020		0.1 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/7/2020 2:14 PM 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	<0.3	
10/17/2017	<0.3	
2/20/2018	<0.3	
8/8/2018	<0.3	
2/26/2019	<0.3	
6/12/2019		<0.3
8/19/2019		<0.3
10/10/2019		<0.3
3/18/2020		<0.3

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/7/2020 2:14 PM 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	<0.3	
2/24/2017	0.03 (J)	
5/10/2017	<0.3	
7/17/2017	0.37	
10/16/2017	<0.3	
2/21/2018	<0.3	
8/7/2018	<0.3	
2/26/2019	0.035 (J)	
6/13/2019		<0.3
8/21/2019		<0.3
10/9/2019		0.35
3/18/2020		<0.3

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/7/2020 2:14 PM 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	<0.3	
10/18/2017	<0.3	
2/19/2018	<0.3	
8/6/2018	<0.3	
2/25/2019	<0.3	
6/13/2019		<0.3
8/20/2019		<0.3
10/8/2019		<0.3
3/17/2020		<0.3

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/7/2020 2:14 PM 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

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/7/2020 2:14 PM 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

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/7/2020 2:14 PM 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

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/7/2020 2:14 PM 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

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/7/2020 2:14 PM 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

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/7/2020 2:14 PM 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

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/7/2020 2:14 PM 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

FIGURE G.

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/7/2020, 10:35 AM

Constituent	Well	Upper Lim.	Lower Lim	Date	Observ.	Sig.	Bg	NBq	Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Boron (mg/L)	GWC-4R	0.04	n/a	3/18/2020	5.4	Yes	12	n/a	n/a	58.33	n/a	0.009156	NP (NDs) 1 of 2	
Calcium (mg/L)	GWC-1R	28.94	n/a	3/17/2020	36.7	Yes	12	14.93	5.959	8.333	None	0.001254	Param 1 of 2	
Calcium (mg/L)	GWC-2R	28.94	n/a	3/18/2020	34.5	Yes	12	14.93	5.959	8.333	None	0.001254	Param 1 of 2	
Calcium (mg/L)	GWC-4R	28.94	n/a	3/18/2020	76.6	Yes	12	14.93	5.959	8.333	None	0.001254	Param 1 of 2	
Calcium (mg/L)	GWC-5R	28.94	n/a	3/18/2020	149	Yes	12	14.93	5.959	8.333	None	0.001254	Param 1 of 2	
Calcium (mg/L)	GWC-6R	28.94	n/a	3/17/2020	66.8	Yes	12	14.93	5.959	8.333	None	0.001254	Param 1 of 2	
Chloride (mg/L)	GWC-1R	5.252	n/a	3/17/2020	15.5	Yes	12	4.242	0.4295	0	None	0.001254	Param 1 of 2	
Chloride (mg/L)	GWC-2R	5.252	n/a	3/18/2020	11.7	Yes	12	4.242	0.4295	0	None	0.001254	Param 1 of 2	
Chloride (mg/L)	GWC-4R	5.252	n/a	3/18/2020	233	Yes	12	4.242	0.4295	0	None	0.001254	Param 1 of 2	
Sulfate (mg/L)	GWC-1R	130.2	n/a	3/17/2020	145	Yes	12	62.65	28.73	0	None	0.001254	Param 1 of 2	
Sulfate (mg/L)	GWC-2R	130.2	n/a	3/18/2020	200	Yes	12	62.65	28.73	0	None	0.001254	Param 1 of 2	
Sulfate (mg/L)	GWC-4R	130.2	n/a	3/18/2020	199	Yes	12	62.65	28.73	0	None	0.001254	Param 1 of 2	
Sulfate (mg/L)	GWC-5R	130.2	n/a	3/18/2020	960	Yes	12	62.65	28.73	0	None	0.001254	Param 1 of 2	
Sulfate (mg/L)	GWC-6R	130.2	n/a	3/17/2020	303	Yes	12	62.65	28.73	0	None	0.001254	Param 1 of 2	
TDS (mg/L)	GWC-1R	299.4	n/a	3/17/2020	306	Yes	12	177.8	51.74	0	None	0.001254	Param 1 of 2	
TDS (mg/L)	GWC-2R	299.4	n/a	3/18/2020	351	Yes	12	177.8	51.74	0	None	0.001254	Param 1 of 2	
TDS (mg/L)	GWC-4R	299.4	n/a	3/18/2020	703	Yes	12	177.8	51.74	0	None	0.001254	Param 1 of 2	
TDS (mg/L)	GWC-5R	299.4	n/a	3/18/2020	1520	Yes	12	177.8	51.74	0	None	0.001254	Param 1 of 2	
TDS (mg/L)	GWC-6R	299.4	n/a	3/17/2020	588	Yes	12	177.8	51.74	0	None	0.001254	Param 1 of 2	

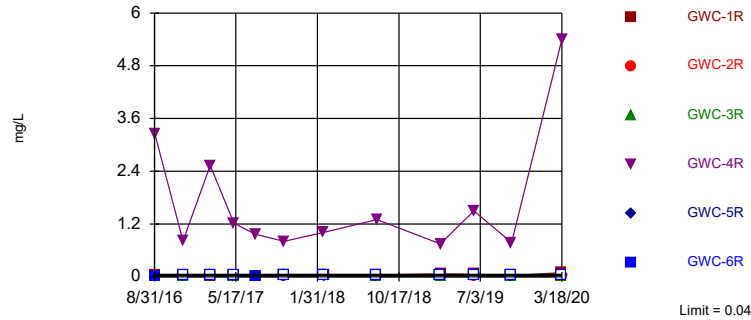
Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/7/2020, 10:35 AM

Constituent	Well	Upper Lim.	Lower Lim	Date	Observ.	Sig.	Bg	NBq	Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Boron (mg/L)	GWC-1R	0.04	n/a	3/17/2020	0.092	No	12	n/a	n/a	n/a	58.33	n/a	0.009156	NP (NDs) 1 of 2
Boron (mg/L)	GWC-2R	0.04	n/a	3/18/2020	0.026	No	12	n/a	n/a	n/a	58.33	n/a	0.009156	NP (NDs) 1 of 2
Boron (mg/L)	GWC-3R	0.04	n/a	3/17/2020	0.0099	No	12	n/a	n/a	n/a	58.33	n/a	0.009156	NP (NDs) 1 of 2
Boron (mg/L)	GWC-4R	0.04	n/a	3/18/2020	5.4	Yes	12	n/a	n/a	n/a	58.33	n/a	0.009156	NP (NDs) 1 of 2
Boron (mg/L)	GWC-5R	0.04	n/a	3/18/2020	0.034	No	12	n/a	n/a	n/a	58.33	n/a	0.009156	NP (NDs) 1 of 2
Boron (mg/L)	GWC-6R	0.04	n/a	3/17/2020	0.04ND	No	12	n/a	n/a	n/a	58.33	n/a	0.009156	NP (NDs) 1 of 2
Calcium (mg/L)	GWC-1R	28.94	n/a	3/17/2020	36.7	Yes	12	14.93	5.959	8.333	None	None	0.001254	Param 1 of 2
Calcium (mg/L)	GWC-2R	28.94	n/a	3/18/2020	34.5	Yes	12	14.93	5.959	8.333	None	None	0.001254	Param 1 of 2
Calcium (mg/L)	GWC-3R	28.94	n/a	3/17/2020	20.3	No	12	14.93	5.959	8.333	None	None	0.001254	Param 1 of 2
Calcium (mg/L)	GWC-4R	28.94	n/a	3/18/2020	76.6	Yes	12	14.93	5.959	8.333	None	None	0.001254	Param 1 of 2
Calcium (mg/L)	GWC-5R	28.94	n/a	3/18/2020	149	Yes	12	14.93	5.959	8.333	None	None	0.001254	Param 1 of 2
Calcium (mg/L)	GWC-6R	28.94	n/a	3/17/2020	66.8	Yes	12	14.93	5.959	8.333	None	None	0.001254	Param 1 of 2
Chloride (mg/L)	GWC-1R	5.252	n/a	3/17/2020	15.5	Yes	12	4.242	0.4295	0	None	None	0.001254	Param 1 of 2
Chloride (mg/L)	GWC-2R	5.252	n/a	3/18/2020	11.7	Yes	12	4.242	0.4295	0	None	None	0.001254	Param 1 of 2
Chloride (mg/L)	GWC-3R	5.252	n/a	3/17/2020	5.2	No	12	4.242	0.4295	0	None	None	0.001254	Param 1 of 2
Chloride (mg/L)	GWC-4R	5.252	n/a	3/18/2020	233	Yes	12	4.242	0.4295	0	None	None	0.001254	Param 1 of 2
Chloride (mg/L)	GWC-5R	5.252	n/a	3/18/2020	3.8	No	12	4.242	0.4295	0	None	None	0.001254	Param 1 of 2
Chloride (mg/L)	GWC-6R	5.252	n/a	3/17/2020	4.4	No	12	4.242	0.4295	0	None	None	0.001254	Param 1 of 2
Sulfate (mg/L)	GWC-1R	130.2	n/a	3/17/2020	145	Yes	12	62.65	28.73	0	None	None	0.001254	Param 1 of 2
Sulfate (mg/L)	GWC-2R	130.2	n/a	3/18/2020	200	Yes	12	62.65	28.73	0	None	None	0.001254	Param 1 of 2
Sulfate (mg/L)	GWC-3R	130.2	n/a	3/17/2020	95.2	No	12	62.65	28.73	0	None	None	0.001254	Param 1 of 2
Sulfate (mg/L)	GWC-4R	130.2	n/a	3/18/2020	199	Yes	12	62.65	28.73	0	None	None	0.001254	Param 1 of 2
Sulfate (mg/L)	GWC-5R	130.2	n/a	3/18/2020	960	Yes	12	62.65	28.73	0	None	None	0.001254	Param 1 of 2
Sulfate (mg/L)	GWC-6R	130.2	n/a	3/17/2020	303	Yes	12	62.65	28.73	0	None	None	0.001254	Param 1 of 2
TDS (mg/L)	GWC-1R	299.4	n/a	3/17/2020	306	Yes	12	177.8	51.74	0	None	None	0.001254	Param 1 of 2
TDS (mg/L)	GWC-2R	299.4	n/a	3/18/2020	351	Yes	12	177.8	51.74	0	None	None	0.001254	Param 1 of 2
TDS (mg/L)	GWC-3R	299.4	n/a	3/17/2020	175	No	12	177.8	51.74	0	None	None	0.001254	Param 1 of 2
TDS (mg/L)	GWC-4R	299.4	n/a	3/18/2020	703	Yes	12	177.8	51.74	0	None	None	0.001254	Param 1 of 2
TDS (mg/L)	GWC-5R	299.4	n/a	3/18/2020	1520	Yes	12	177.8	51.74	0	None	None	0.001254	Param 1 of 2
TDS (mg/L)	GWC-6R	299.4	n/a	3/17/2020	588	Yes	12	177.8	51.74	0	None	None	0.001254	Param 1 of 2

Exceeds Limit: GWC-4R

Prediction Limit
Interwell Non-parametric

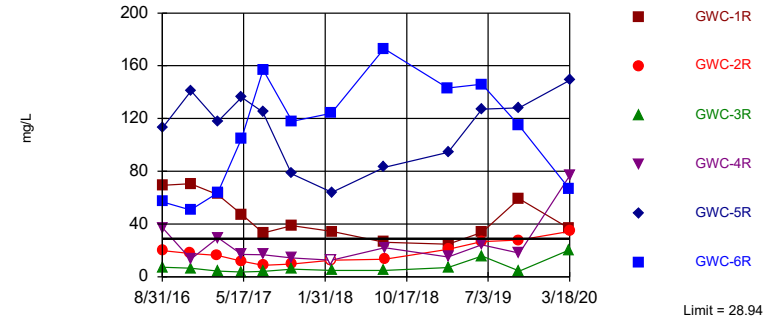


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 12 background values. 58.33% NDs. Annual per-constituent alpha = 0.1045. Individual comparison alpha = 0.009156 (1 of 2). Comparing 6 points to limit.

Constituent: Boron Analysis Run 5/7/2020 10:33 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

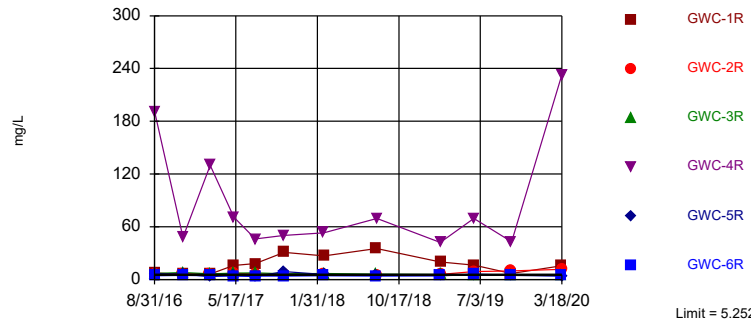


Background Data Summary: Mean=14.93, Std. Dev.=5.959, n=12, 8.333% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8242, critical = 0.805. Kappa = 2.351 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001254. Comparing 6 points to limit.

Constituent: Calcium Analysis Run 5/7/2020 10:33 AM View: Appendix III - Interwell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Exceeds Limit: GWC-1R, GWC-2R, GWC-4R

Prediction Limit
Interwell Parametric

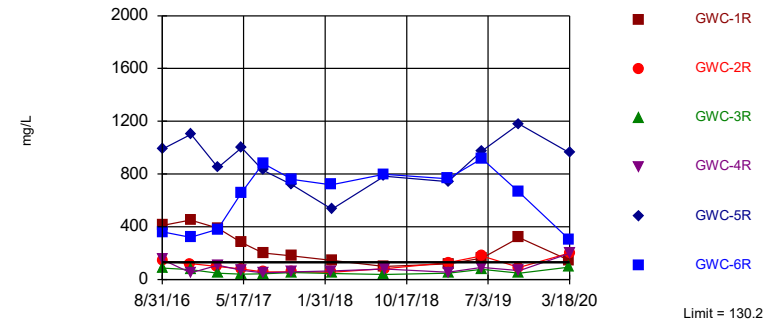


Background Data Summary: Mean=4.242, Std. Dev.=0.4295, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.921, critical = 0.805. Kappa = 2.351 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001254. Comparing 6 points to limit.

Constituent: Chloride Analysis Run 5/7/2020 10:33 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

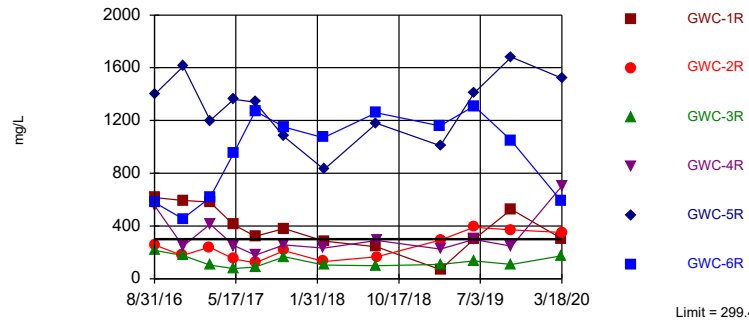


Background Data Summary: Mean=62.65, Std. Dev.=28.73, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8959, critical = 0.805. Kappa = 2.351 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001254. Comparing 6 points to limit.

Constituent: Sulfate Analysis Run 5/7/2020 10:33 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: Mean=177.8, Std. Dev.=51.74, n=12. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9755, critical = 0.805. Kappa = 2.351 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001254. Comparing 6 points to limit.

Constituent: TDS Analysis Run 5/7/2020 10:33 AM View: Appendix III - Interwell
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/7/2020 10:35 AM View: Appendix III - Interwell
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-2R	GWC-3R	GWC-1R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	0.0315 (J)	0.0305 (J)	0.0315 (J)	0.0553 (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			<0.04	0.0082 (J)			<0.04
2/24/2017					2.53	0.0067 (J)	
5/8/2017	0.0084 (J)						
5/9/2017			0.0077 (J)	0.0097 (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		0.0169 (J)	0.0073 (J)	0.0123 (J)	0.97		0.0061 (J)
10/16/2017	<0.04					0.0066 (J)	
10/17/2017		0.0168 (J)		0.0513	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			0.0399 (J)	0.0378 (J)		0.0268 (J)	
8/6/2018	<0.04						<0.04
8/7/2018			0.0049 (J)	0.043		0.012 (J)	
8/8/2018		0.017 (J)			1.3		
2/25/2019	<0.04						<0.04
2/26/2019		0.017 (J)	0.0053 (J)	0.062	0.75	0.033 (J)	
6/12/2019	<0.04	0.013 (J)			1.5		
6/13/2019			<0.04	0.057		0.03 (J)	<0.04
10/8/2019	<0.04						<0.04
10/9/2019		0.018 (J)		0.029 (J)		0.013 (J)	
10/10/2019			0.0061 (J)		0.78		
3/17/2020	0.0051 (J)		0.0099 (J)	0.092 (J)			<0.04
3/18/2020		0.026 (J)			5.4	0.034 (J)	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/7/2020 10:35 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-2R	GWC-3R	GWC-1R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	9.31	19.9	7.23	69.4			
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			4.25	62.4			63.5
2/24/2017					29.5	118	
5/8/2017	14.2						
5/9/2017			3.56	47.4			
5/10/2017		11.8			17	136	105
7/17/2017	14.1					125	
7/18/2017		8.69	4.16	33.2	16.8		157
10/16/2017	13.6					78.2	
10/17/2017		9.77		38.7	14.3		
10/18/2017			5.67				118
2/19/2018	<25						124
2/20/2018		<25			<25		
2/21/2018			4.76	34.3		64	
8/6/2018	11.4 (J)						173
8/7/2018			4.7	26.2		83	
8/8/2018		13.4 (J)			22.1 (J)		
2/25/2019	12.7 (J)						143
2/26/2019		20.9 (J)	7.1	24.7 (J)	15.1 (J)	94.4	
6/12/2019	18.9	26.6			24.2		
6/13/2019			15.7	33.8		127	146
10/8/2019	28.3						115
10/9/2019		27.8		59.1		128	
10/10/2019			4.3		18		
3/17/2020	24.3		20.3	36.7			66.8
3/18/2020		34.5			76.6	149	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/7/2020 10:35 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-2R	GWC-3R	GWC-1R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	4	6.3	6.7	7.6			
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			6.5	6.2			4.4
2/24/2017					130	3.4	
5/8/2017	4.2						
5/9/2017			7.2	16			
5/10/2017		7.1			71	4.5	3.9
7/17/2017	3.8					3.2	
7/18/2017		6	7.7	18	46		4
10/16/2017	4.2					9	
10/17/2017		6.1		31	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			6.7	27		5.6	
8/6/2018	3.8						3.9
8/7/2018			6.3	35.4		4.7	
8/8/2018		4.7			69.3		
2/25/2019	4.1						4.4
2/26/2019		5.7	5.7	20	42.2	4.2	
6/12/2019	4.7	9.1			69.5		
6/13/2019			5	16.4		5.5	6.2
10/8/2019	5.1						4.9
10/9/2019		9.8		6.9		4.5	
10/10/2019			5.3		42.8		
3/17/2020	4.8		5.2	15.5			4.4
3/18/2020		11.7			233	3.8	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/7/2020 10:35 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-2R	GWC-3R	GWC-1R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	29	140	87	410			
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			47	390			380
2/24/2017					110	850	
5/8/2017	60						
5/9/2017			41	280			
5/10/2017		80			70	1000	660
7/17/2017	63					830	
7/18/2017		57	44	200	50		880
10/16/2017	62					720	
10/17/2017		59		180	58		
10/18/2017			53				760
2/19/2018	64.6						718
2/20/2018		55.9			64.6		
2/21/2018			46.7	146		533	
8/6/2018	42.1						797
8/7/2018			38.8	100		784	
8/8/2018		81.1			79.5		
2/25/2019	42.1						763
2/26/2019		129	49.3	118	55.8	742	
6/12/2019	83.4	180			92.8		
6/13/2019			77.1	163		976	918
10/8/2019	128						664
10/9/2019		91.2		318		1180	
10/10/2019			48		68.7		
3/17/2020	98.6		95.2	145			303
3/18/2020		200			199	960	

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 5/7/2020 10:35 AM View: Appendix III - Interwell

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-2R	GWC-3R	GWC-1R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	209	257	216	616			
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			105	581			614
2/24/2017					414	1200	
5/8/2017	145						
5/9/2017			77	410			
5/10/2017		149			251	1360	955
7/17/2017	185					1340	
7/18/2017		122	89	322	179		1270
10/16/2017	218					1080	
10/17/2017		214		381	256		
10/18/2017			166				1150
2/19/2018	173						1070
2/20/2018		131			233		
2/21/2018			105	285		830	
8/6/2018	158						1260
8/7/2018			99	242		1180	
8/8/2018		166			292		
2/25/2019	92						1160
2/26/2019		293	109	69	226	1010	
6/12/2019	226	391			298		
6/13/2019			136	301		1410	1310
10/8/2019	276						1050
10/9/2019		372		526		1680	
10/10/2019			109		247		
3/17/2020	185		175	306			588
3/18/2020		351			703	1520	

FIGURE H.

Appendix III Trend Tests - PL Exceedances - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/7/2020, 10:53 AM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Calcium (mg/L)	GWA-2 (bg)	3.705	38	35	Yes	12	8.333	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-2 (bg)	18.82	41	35	Yes	12	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWC-1R	-89.3	-38	-35	Yes	12	0	n/a	n/a	0.02	NP
TDS (mg/L)	GWC-1R	-91.88	-36	-35	Yes	12	0	n/a	n/a	0.02	NP

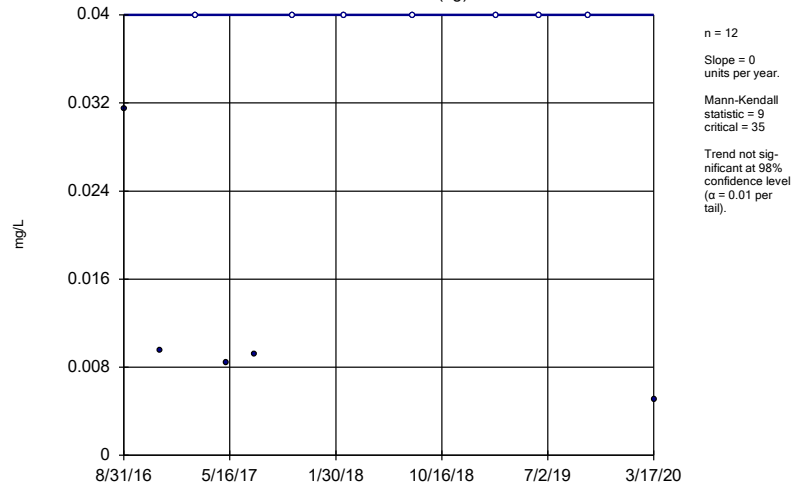
Appendix III Trend Tests - PL Exceedances - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/7/2020, 10:53 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	GWA-2 (bg)	0	9	35	No	12	58.33	n/a	n/a	0.02	NP
Boron (mg/L)	GWC-4R	-0.02011	-6	-35	No	12	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWA-2 (bg)	3.705	38	35	Yes	12	8.333	n/a	n/a	0.02	NP
Calcium (mg/L)	GWC-1R	-10.28	-30	-35	No	12	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWC-2R	4.373	26	35	No	12	8.333	n/a	n/a	0.02	NP
Calcium (mg/L)	GWC-4R	0.673	6	35	No	12	8.333	n/a	n/a	0.02	NP
Calcium (mg/L)	GWC-5R	3.454	8	35	No	12	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWC-6R	18.73	24	35	No	12	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWA-2 (bg)	0.2398	32	35	No	12	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWC-1R	2.584	14	35	No	12	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWC-2R	0.9514	13	35	No	12	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWC-4R	-2.088	-8	-35	No	12	0	n/a	n/a	0.02	NP
pH (S.U.)	GWA-2 (bg)	-0.02143	-58	-101	No	25	0	n/a	n/a	0.02	NP
pH (S.U.)	GWC-1R	0.06605	20	39	No	13	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWA-2 (bg)	18.82	41	35	Yes	12	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWC-1R	-89.3	-38	-35	Yes	12	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWC-2R	8.328	8	35	No	12	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWC-4R	5.97	9	35	No	12	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWC-5R	-17.46	-8	-35	No	12	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWC-6R	96.83	18	35	No	12	0	n/a	n/a	0.02	NP
TDS (mg/L)	GWA-2 (bg)	12.21	15	35	No	12	0	n/a	n/a	0.02	NP
TDS (mg/L)	GWC-1R	-91.88	-36	-35	Yes	12	0	n/a	n/a	0.02	NP
TDS (mg/L)	GWC-2R	49.21	20	35	No	12	0	n/a	n/a	0.02	NP
TDS (mg/L)	GWC-4R	3.555	1	35	No	12	0	n/a	n/a	0.02	NP
TDS (mg/L)	GWC-5R	-5.102	0	35	No	12	0	n/a	n/a	0.02	NP
TDS (mg/L)	GWC-6R	142.4	22	35	No	12	0	n/a	n/a	0.02	NP

Sen's Slope Estimator

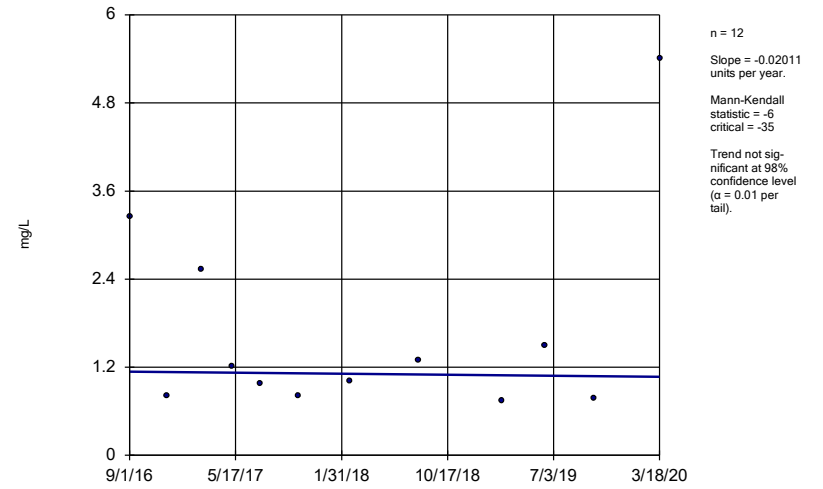
GWA-2 (bg)



Constituent: Boron Analysis Run 5/7/2020 10:51 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

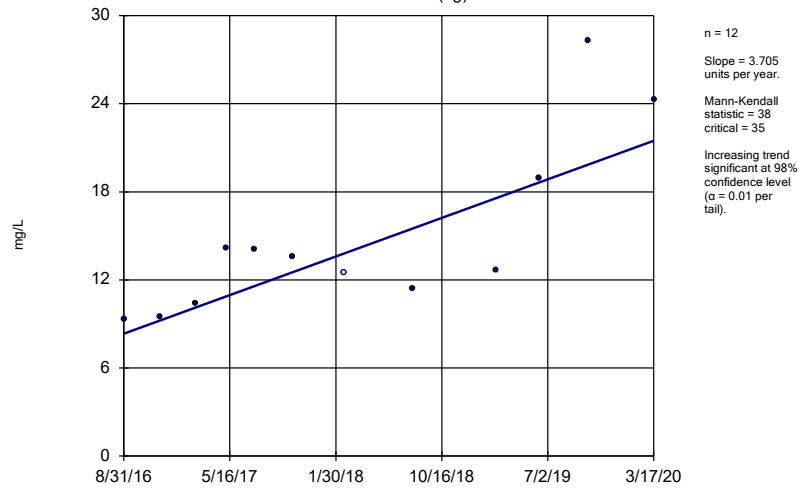
GWC-4R



Constituent: Boron Analysis Run 5/7/2020 10:51 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

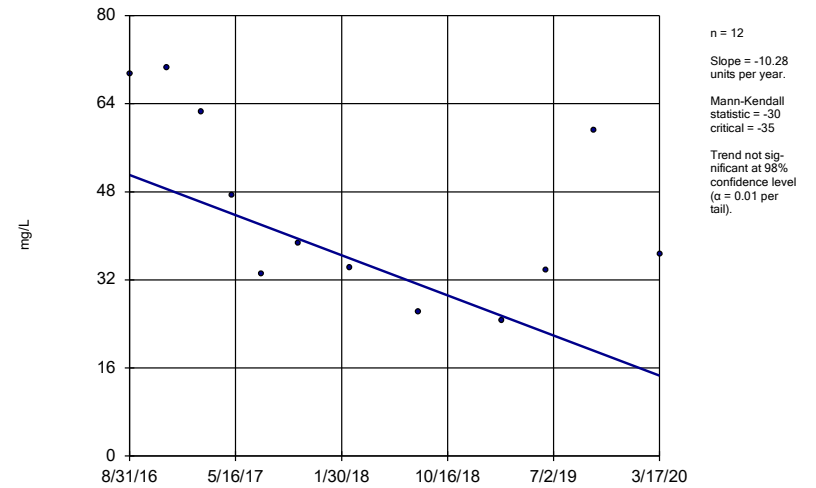
GWA-2 (bg)



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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

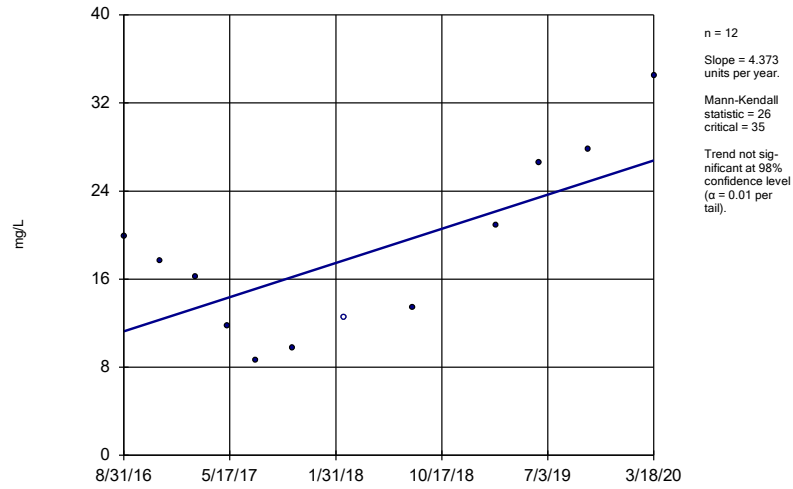
Sen's Slope Estimator

GWC-1R



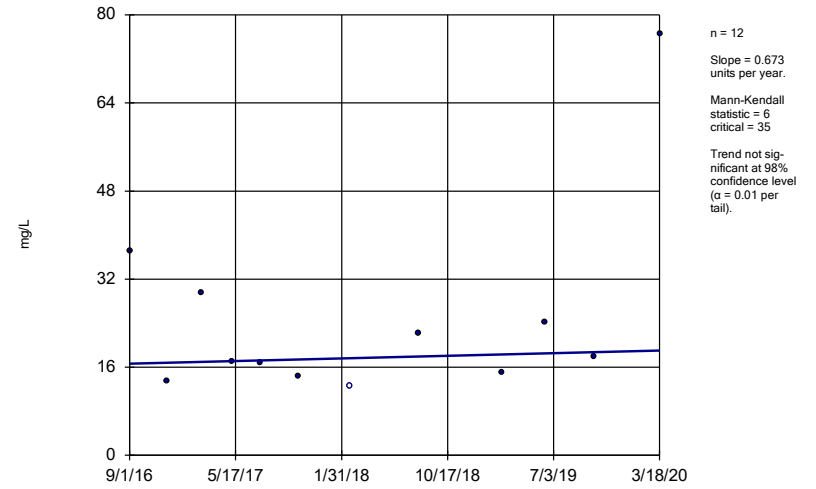
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
GWC-2R



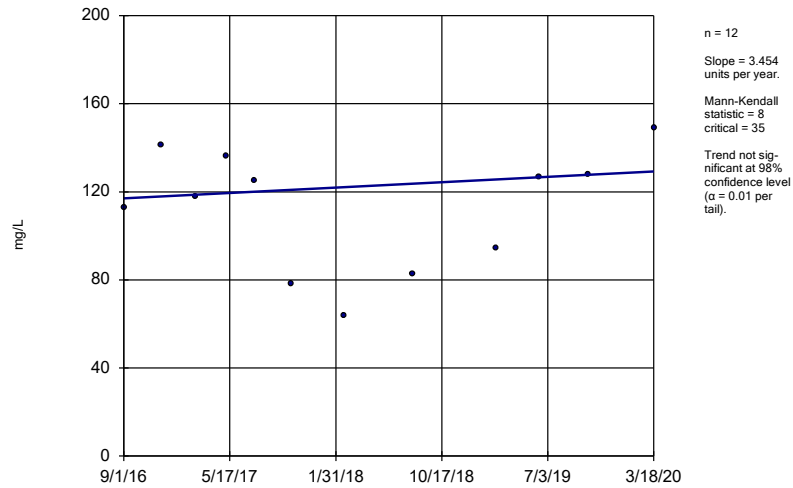
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
GWC-4R



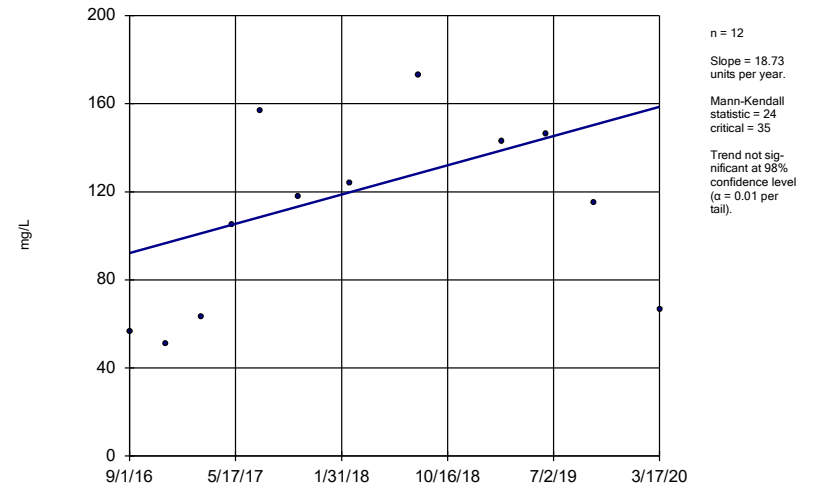
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
GWC-5R



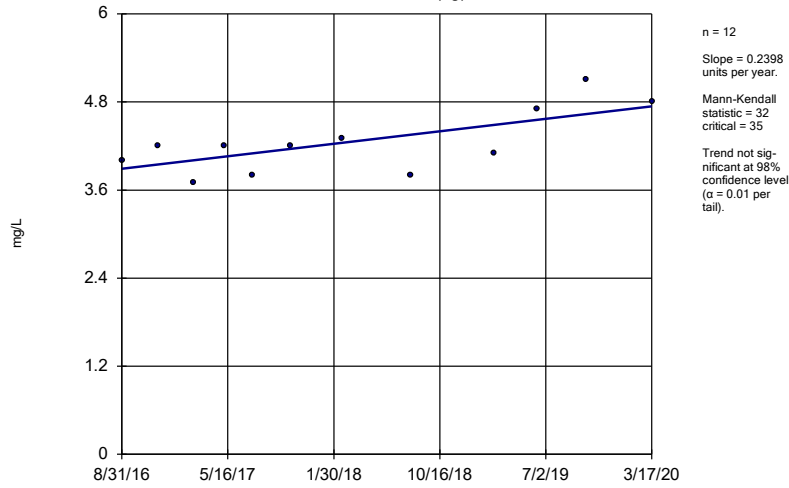
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
GWC-6R



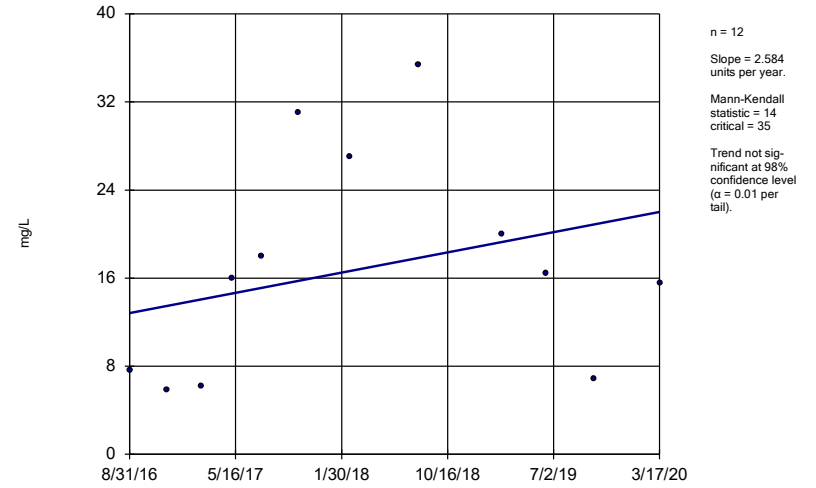
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
GWA-2 (bg)



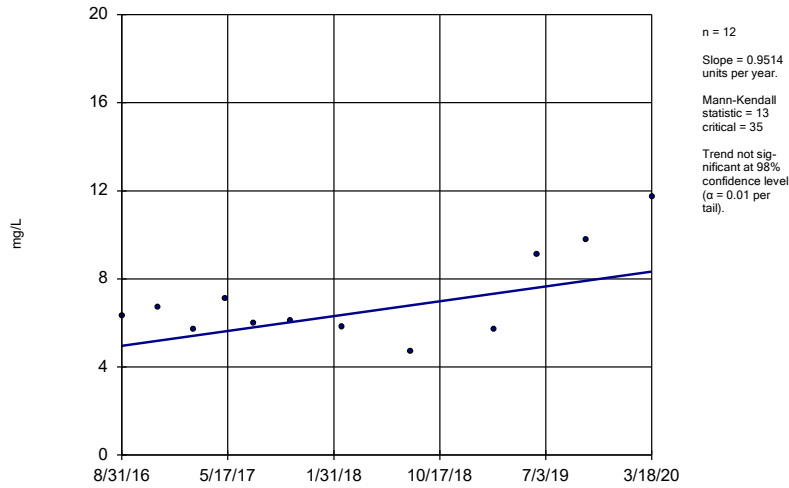
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
GWC-1R



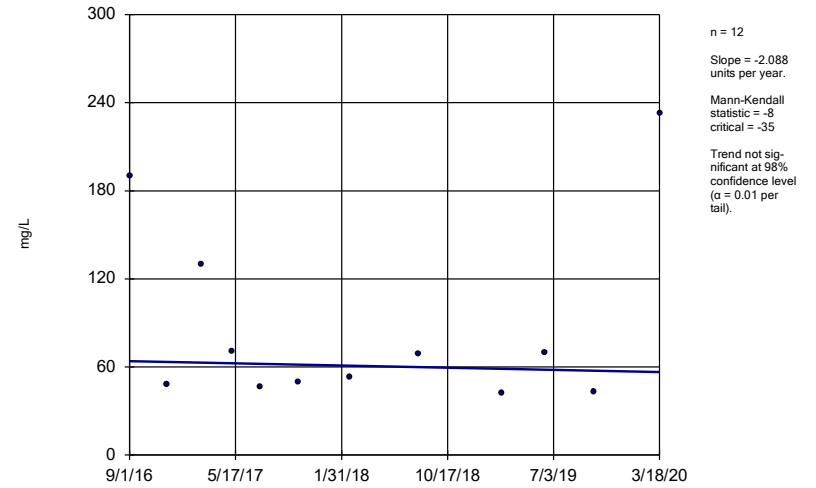
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
GWC-2R



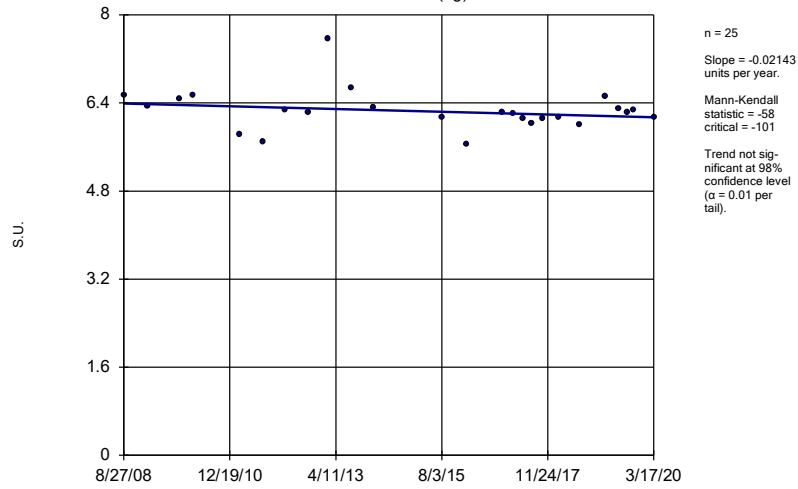
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
GWC-4R



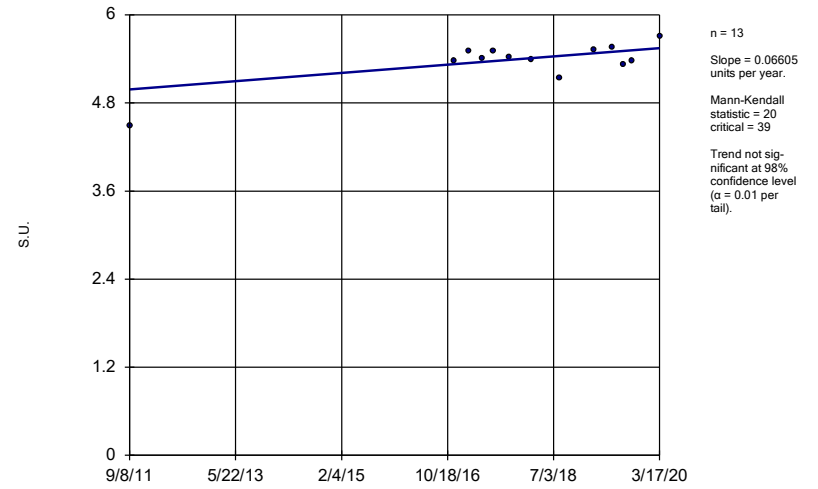
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
GWA-2 (bg)



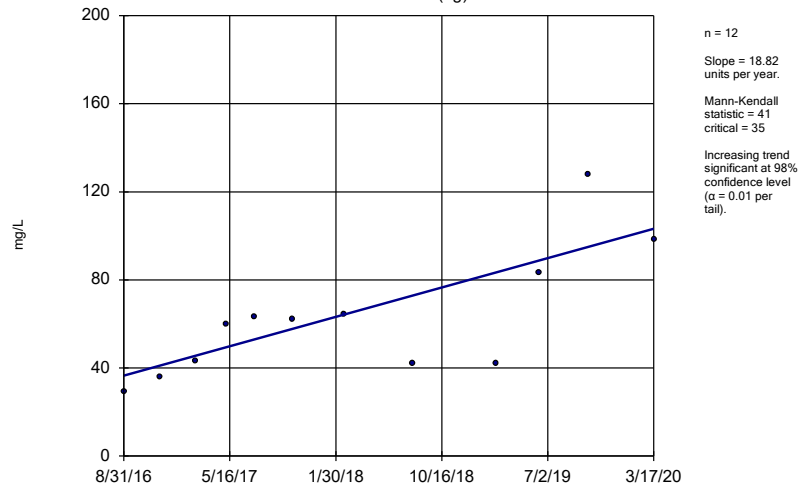
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
GWC-1R



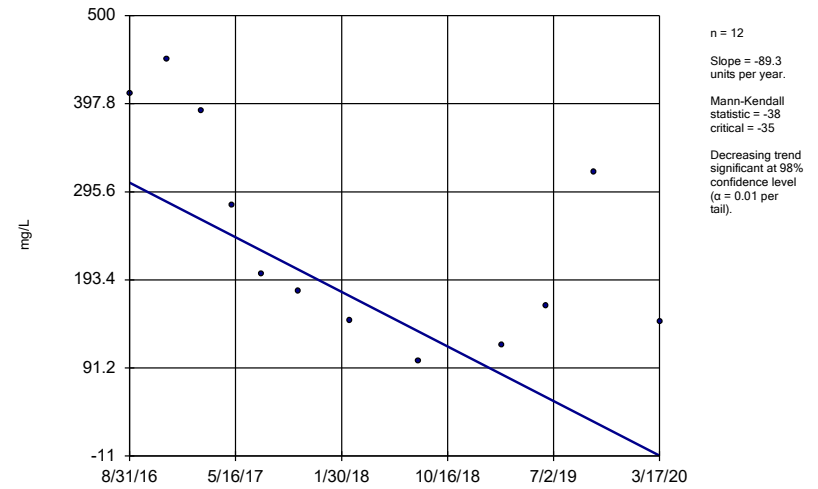
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
GWA-2 (bg)



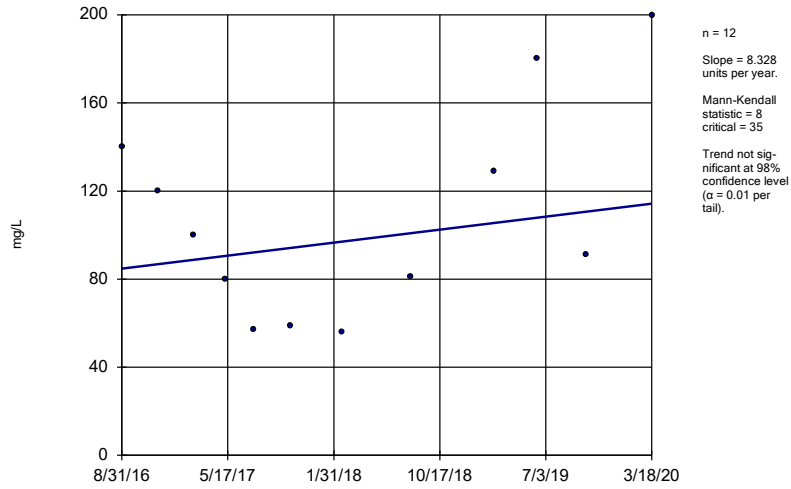
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
GWC-1R



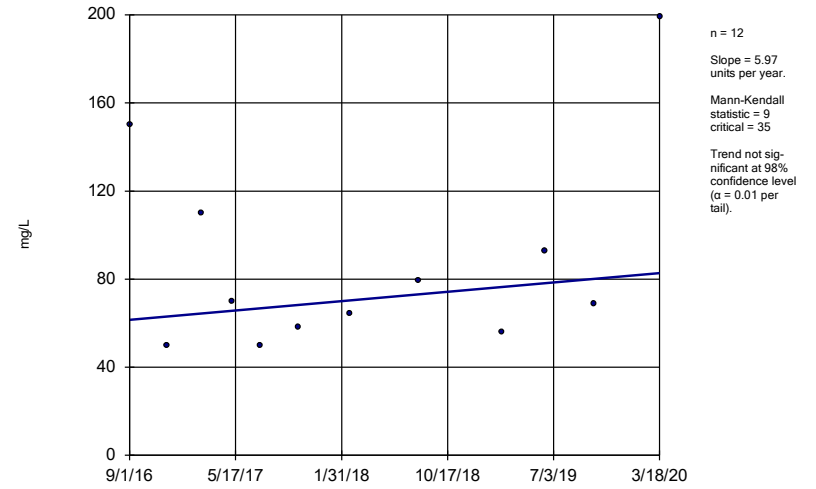
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator GWC-2R



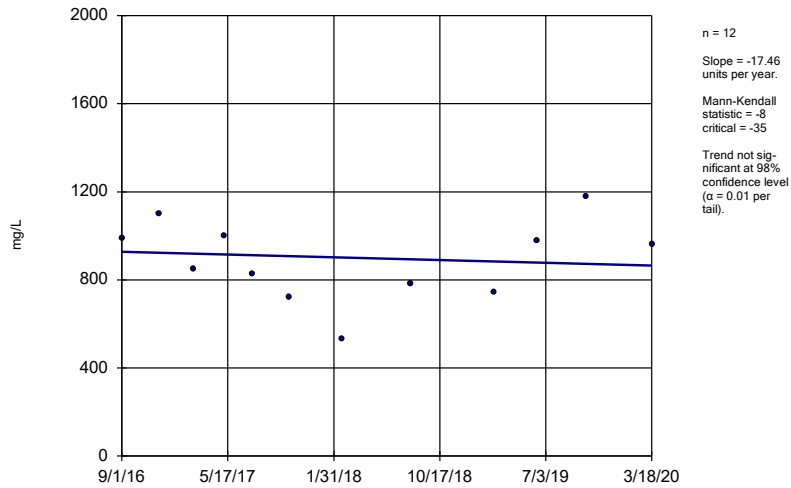
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator GWC-4R



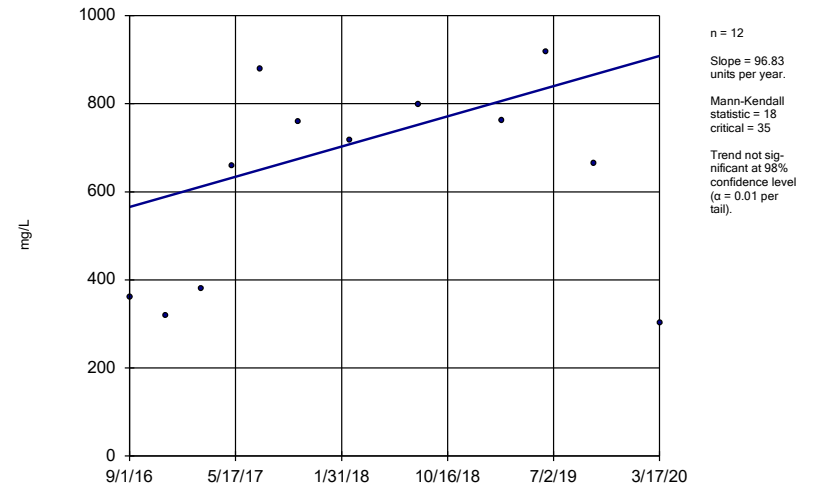
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator GWC-5R



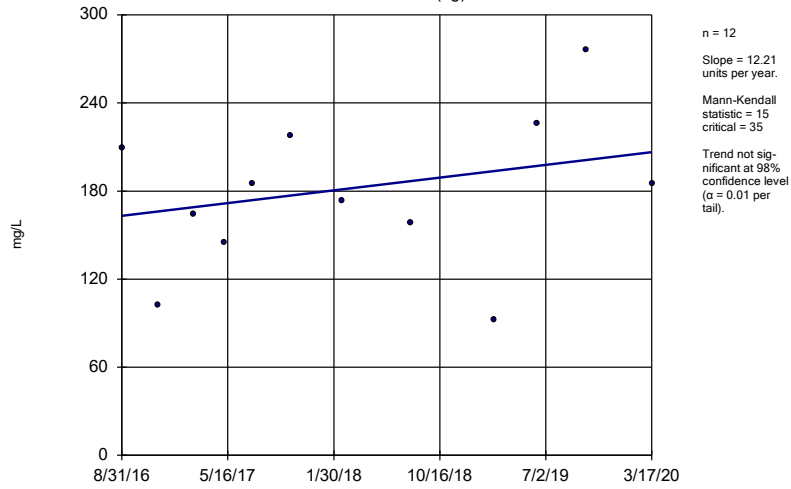
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator GWC-6R



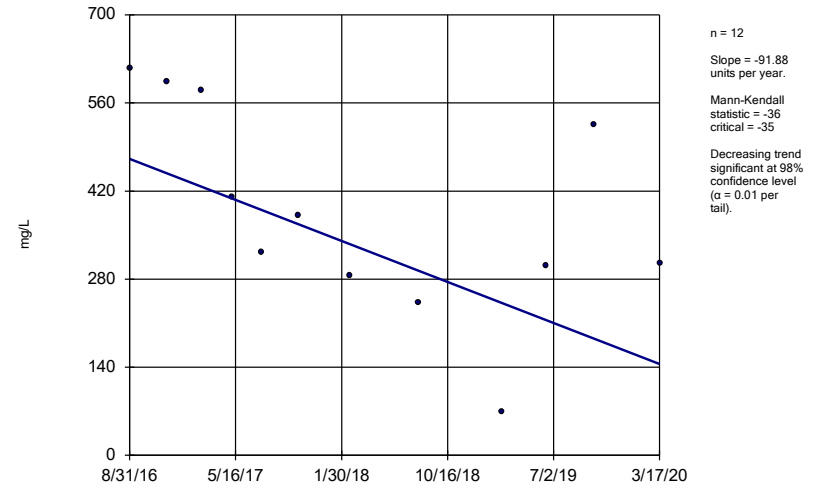
Constituent: Sulfate Analysis Run 5/7/2020 10:52 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
GWA-2 (bg)



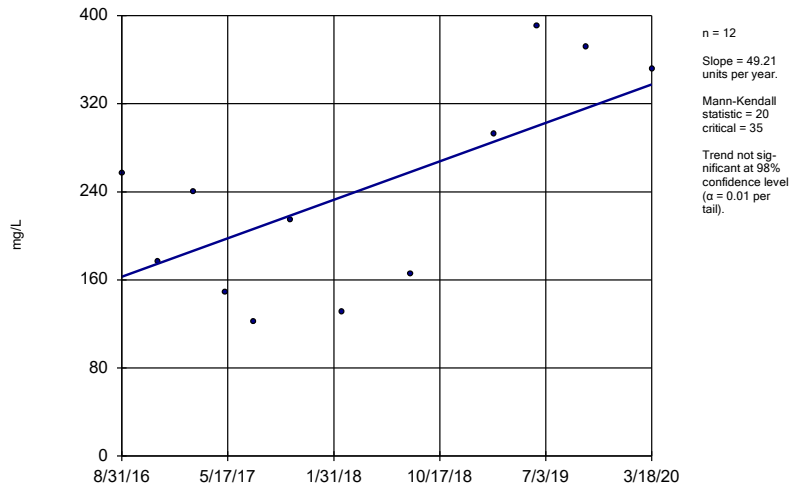
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
GWC-1R



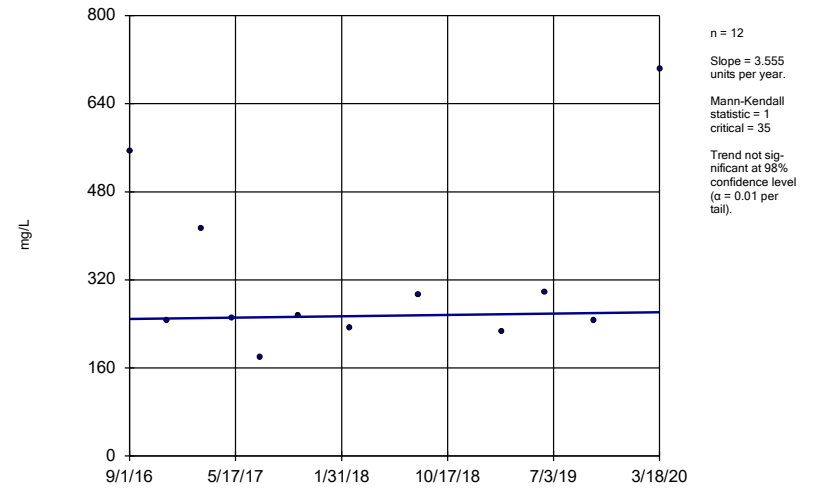
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
GWC-2R



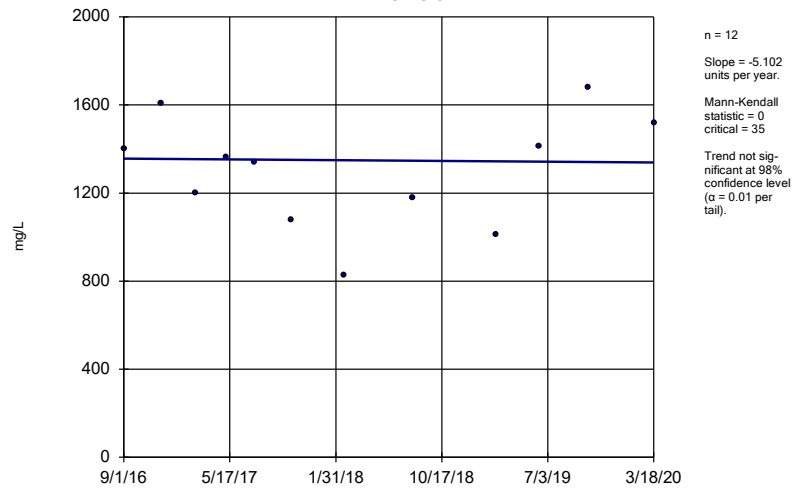
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator
GWC-4R



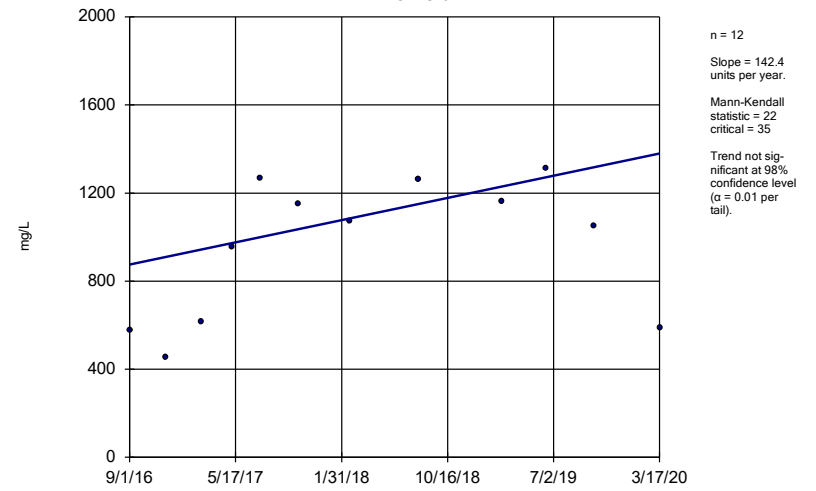
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Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator GWC-5R



Constituent: TDS Analysis Run 5/7/2020 10:52 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator GWC-6R



Constituent: TDS Analysis Run 5/7/2020 10:52 AM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

FIGURE I.

Tolerance Limit Summary Table

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/12/2020, 7:22 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	0.0030	n/a	n/a	n/a	n/a	32	n/a	n/a	96.88	n/a	n/a	0.1937	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0050	n/a	n/a	n/a	n/a	32	n/a	n/a	93.75	n/a	n/a	0.1937	NP Inter(NDs)
Barium (mg/L)	n/a	0.079	n/a	n/a	n/a	n/a	32	0.05107	0.01255	0	None	No	0.05	Inter
Beryllium (mg/L)	n/a	0.0030	n/a	n/a	n/a	n/a	32	n/a	n/a	100	n/a	n/a	0.1937	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0010	n/a	n/a	n/a	n/a	32	n/a	n/a	100	n/a	n/a	0.1937	NP Inter(NDs)
Chromium (mg/L)	n/a	0.010	n/a	n/a	n/a	n/a	32	n/a	n/a	75	n/a	n/a	0.1937	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.0068	n/a	n/a	n/a	n/a	32	0.00327	0.001613	34.38	Kaplan-Meier	No	0.05	Inter
Combined Radium 226 + 228 (pCi/L)	n/a	2.4	n/a	n/a	n/a	n/a	11	0.9806	0.5181	0	None	No	0.05	Inter
Fluoride (mg/L)	n/a	0.22	n/a	n/a	n/a	n/a	13	0.1102	0.04015	7.692	None	No	0.05	Inter
Lead (mg/L)	n/a	0.0050	n/a	n/a	n/a	n/a	32	n/a	n/a	100	n/a	n/a	0.1937	NP Inter(NDs)
Lithium (mg/L)	n/a	0.030	n/a	n/a	n/a	n/a	11	n/a	n/a	54.55	n/a	n/a	0.5688	NP Inter(NDs)
Mercury (mg/L)	n/a	0.00020	n/a	n/a	n/a	n/a	31	n/a	n/a	93.55	n/a	n/a	0.2039	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.010	n/a	n/a	n/a	n/a	9	n/a	n/a	100	n/a	n/a	0.6302	NP Inter(NDs)
Selenium (mg/L)	n/a	0.010	n/a	n/a	n/a	n/a	32	n/a	n/a	100	n/a	n/a	0.1937	NP Inter(NDs)
Thallium (mg/L)	n/a	0.0010	n/a	n/a	n/a	n/a	31	n/a	n/a	87.1	n/a	n/a	0.2039	NP Inter(NDs)

FIGURE J.

YATES LANDFILL GYPSUM STACK GWPS - FEDERAL				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.079	2
Beryllium, Total (mg/L)	0.004		0.003	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005
Chromium, Total (mg/L)	0.1		0.01	0.1
Cobalt, Total (mg/L)		0.006	0.0068	0.0068
Combined Radium, Total (pCi/L)	5		2.4	5
Fluoride, Total (mg/L)	4		0.22	4
Lead, Total (mg/L)		0.015	0.005	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)		0.1	0.01	0.1
Selenium, Total (mg/L)	0.05		0.01	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Grey cell indicates Background Limit is higher than MCL or CCR-Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

FIGURE K.

YATES LANDFILL GYPSUM STACK GWPS - STATE				
Constituent Name	MCL	CCR-Rule Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.079	2
Beryllium, Total (mg/L)	0.004		0.003	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005
Chromium, Total (mg/L)	0.1		0.01	0.1
Cobalt, Total (mg/L)		0.006	0.0068	0.0068
Combined Radium, Total (pCi/L)	5		2.4	5
Fluoride, Total (mg/L)	4		0.22	4
Lead, Total (mg/L)		0.015	0.005	0.005
Lithium, Total (mg/L)		0.04	0.03	0.03
Mercury, Total (mg/L)	0.002		0.0002	0.002
Molybdenum, Total (mg/L)		0.1	0.01	0.01
Selenium, Total (mg/L)	0.05		0.01	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Grey cell indicates Background Limit is higher than MCL. or CCR-Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residuals*

**GWPS = Groundwater Protection Standard*

FIGURE L.

Federal Confidence Intervals - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/12/2020, 2:14 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	GWC-2R	0.02831	0.01946	0.0068	Yes 28	0.02389	0.009476	3.571	None	No	0.01	Param.

Federal Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/12/2020, 2:14 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWC-4R	0.003	0.0014	0.006	No	28	0.002846	0.0005866	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-5R	0.003	0.00054	0.006	No	23	0.002893	0.0005129	95.65	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-1R	0.005	0.0009	0.01	No	23	0.004428	0.001512	86.96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-2R	0.005	0.00075	0.01	No	28	0.004848	0.0008032	96.43	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-3R	0.005	0.0016	0.01	No	23	0.004513	0.001296	86.96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-4R	0.005	0.00059	0.01	No	28	0.004677	0.001186	92.86	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-5R	0.005	0.0011	0.01	No	23	0.003319	0.001975	56.52	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-6R	0.005	0.0023	0.01	No	29	0.003889	0.001853	72.41	None	No	0.01	NP (NDs)
Barium (mg/L)	GWC-1R	0.05516	0.03584	2	No	23	0.0455	0.01847	0	None	No	0.01	Param.
Barium (mg/L)	GWC-2R	0.066	0.0481	2	No	28	0.06326	0.02353	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-3R	0.04038	0.02146	2	No	23	0.03366	0.0246	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	GWC-4R	0.03964	0.02393	2	No	28	0.03347	0.01837	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-5R	0.0392	0.0222	2	No	23	0.0322	0.01714	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-6R	0.05844	0.038	2	No	29	0.04822	0.02231	0	None	No	0.01	Param.
Beryllium (mg/L)	GWC-1R	0.003	0.00008	0.004	No	23	0.001741	0.001468	56.52	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-2R	0.003	0.00017	0.004	No	28	0.002484	0.001127	82.14	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-3R	0.003	0.00038	0.004	No	23	0.001253	0.001202	30.43	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-5R	0.003	0.0004	0.004	No	23	0.001587	0.001217	30.43	None	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-1R	0.001	0.00008	0.005	No	23	0.00096	0.0001918	95.65	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-2R	0.001	0.0001	0.005	No	28	0.0009357	0.000236	92.86	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-3R	0.001	0.00037	0.005	No	23	0.0008026	0.0003429	73.91	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-4R	0.001	0.0001	0.005	No	28	0.0009679	0.0001701	96.43	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-5R	0.0008002	0.0004938	0.005	No	23	0.0007935	0.0002979	34.78	Kaplan-Meier	x^2	0.01	Param.
Chromium (mg/L)	GWC-1R	0.01	0.001	0.1	No	23	0.005783	0.004519	52.17	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-2R	0.01	0.0017	0.1	No	28	0.008696	0.003258	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-3R	0.01	0.0012	0.1	No	23	0.003997	0.004076	30.43	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-4R	0.01	0.0062	0.1	No	28	0.008228	0.003584	78.57	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-5R	0.0029	0.0018	0.1	No	23	0.003861	0.003329	21.74	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-6R	0.01	0.0014	0.1	No	29	0.004751	0.004192	37.93	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-1R	0.005	0.00079	0.0068	No	23	0.003396	0.00324	43.48	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-2R	0.02831	0.01946	0.0068	Yes	28	0.02389	0.009476	3.571	None	No	0.01	Param.
Cobalt (mg/L)	GWC-3R	0.01	0.0016	0.0068	No	23	0.00533	0.001784	86.96	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-4R	0.003312	0.001558	0.0068	No	28	0.003435	0.002063	32.14	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	GWC-5R	0.005	0.00044	0.0068	No	23	0.004395	0.001597	86.96	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-6R	0.005	0.0014	0.0068	No	29	0.004876	0.0006685	96.55	Kaplan-Meier	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GWC-1R	1.175	0.4893	5	No	10	0.8323	0.3844	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2R	1.456	0.4584	5	No	10	0.9574	0.5592	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-3R	1.192	0.1061	5	No	10	0.668	0.8093	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-4R	0.7375	0.1498	5	No	10	0.4437	0.3293	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-5R	1.107	0.2268	5	No	10	0.6667	0.4931	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-6R	1.373	0.3586	5	No	10	0.8764	0.6526	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GWC-1R	0.3	0.05	4	No	13	0.2238	0.119	69.23	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-2R	0.58	0.04	4	No	13	0.2446	0.1554	61.54	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-3R	0.58	0.037	4	No	13	0.2213	0.1599	46.15	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-4R	0.3	0.08	4	No	13	0.2369	0.1012	69.23	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-5R	0.35	0.035	4	No	13	0.2473	0.1249	61.54	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-6R	0.3	0.05	4	No	13	0.24	0.1108	69.23	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-1R	0.005	0.000052	0.015	No	23	0.004785	0.001032	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-2R	0.005	0.0001	0.015	No	28	0.004296	0.001756	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-3R	0.005	0.00015	0.015	No	23	0.004148	0.001898	82.61	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-5R	0.005	0.000079	0.015	No	23	0.004357	0.001698	86.96	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-1R	0.03	0.001	0.04	No	11	0.009258	0.01333	27.27	None	No	0.006	NP (normality)
Lithium (mg/L)	GWC-2R	0.03	0.0035	0.04	No	11	0.01105	0.01219	27.27	None	No	0.006	NP (normality)
Lithium (mg/L)	GWC-3R	0.03	0.03	0.04	No	11	0.02738	0.008684	90.91	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-4R	0.03	0.0013	0.04	No	11	0.02475	0.01168	81.82	None	No	0.006	NP (NDs)

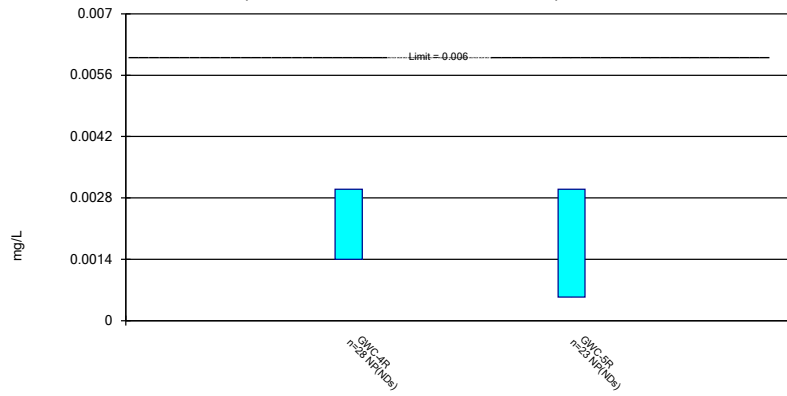
Federal Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/12/2020, 2:14 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	GWC-5R	0.03	0.0015	0.04	No 11	0.02224	0.0133	72.73	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-6R	0.03	0.002	0.04	No 11	0.01261	0.01382	36.36	None	No	0.006	NP (normality)
Selenium (mg/L)	GWC-1R	0.01	0.003	0.05	No 23	0.007226	0.003638	56.52	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-2R	0.01	0.0029	0.05	No 28	0.006821	0.003759	57.14	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-3R	0.01	0.0038	0.05	No 23	0.007065	0.003436	47.83	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-4R	0.008241	0.004554	0.05	No 28	0.007971	0.003786	28.57	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	GWC-5R	0.02662	0.01683	0.05	No 23	0.02173	0.009358	4.348	None	No	0.01	Param.
Selenium (mg/L)	GWC-6R	0.01	0.0039	0.05	No 29	0.007252	0.003422	58.62	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-2R	0.001	0.00007	0.002	No 26	0.0009642	0.0001824	96.15	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-5R	0.001	0.000053	0.002	No 22	0.000957	0.0002019	95.45	None	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

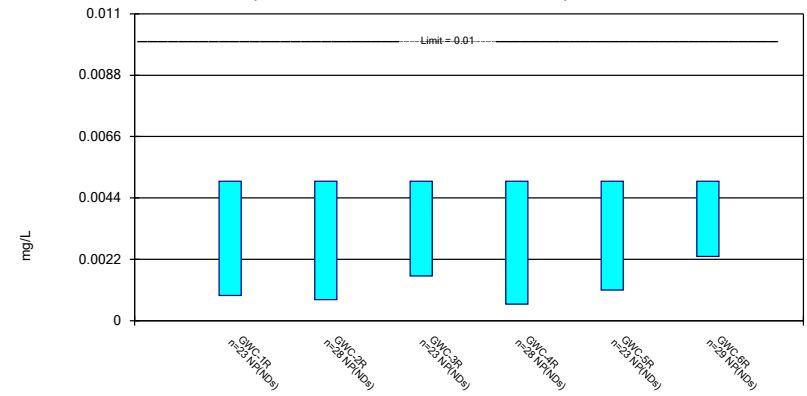
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 5/12/2020 2:11 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

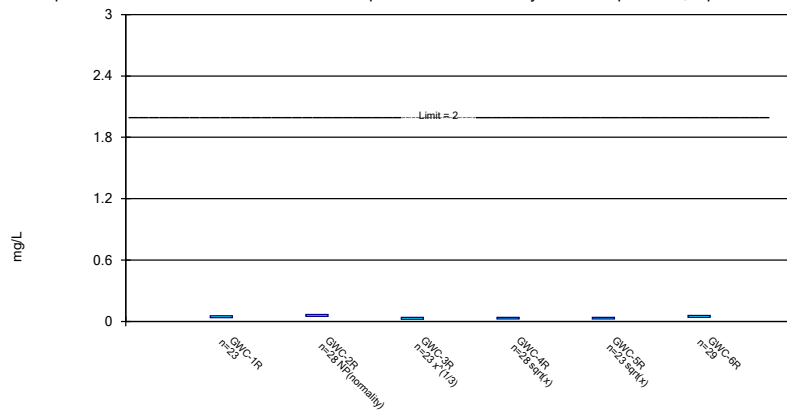
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Arsenic Analysis Run 5/12/2020 2:12 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

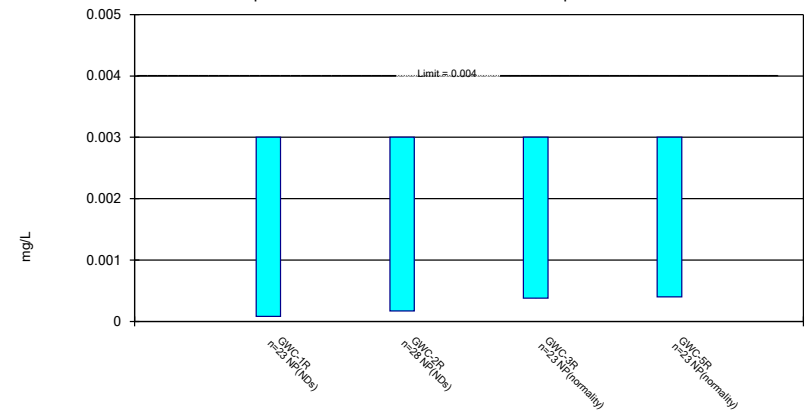
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 5/12/2020 2:12 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

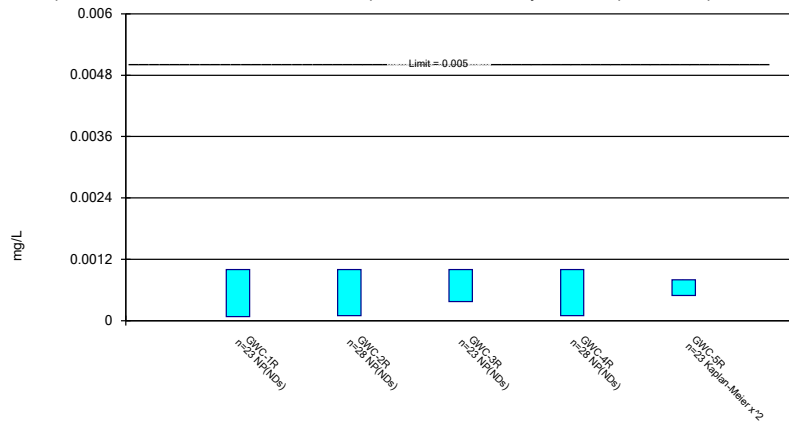
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 5/12/2020 2:12 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

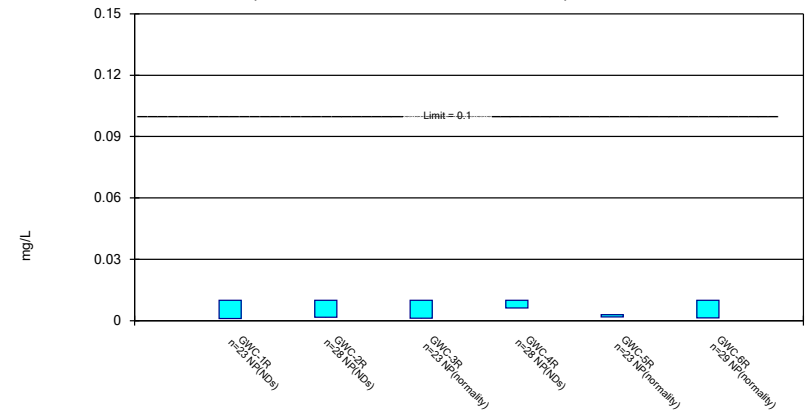
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 5/12/2020 2:12 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

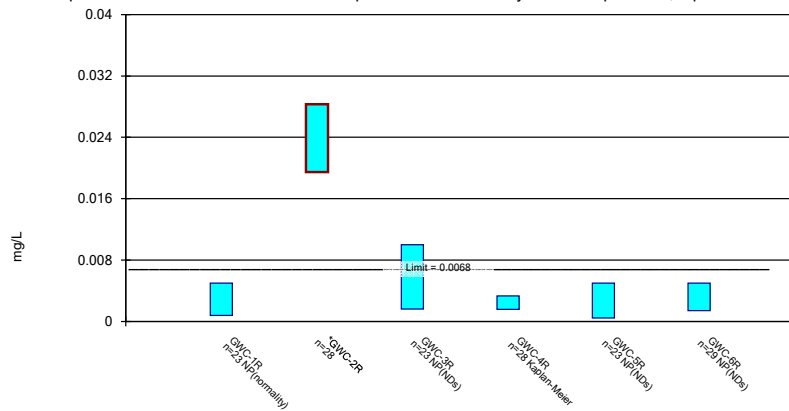
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 5/12/2020 2:12 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

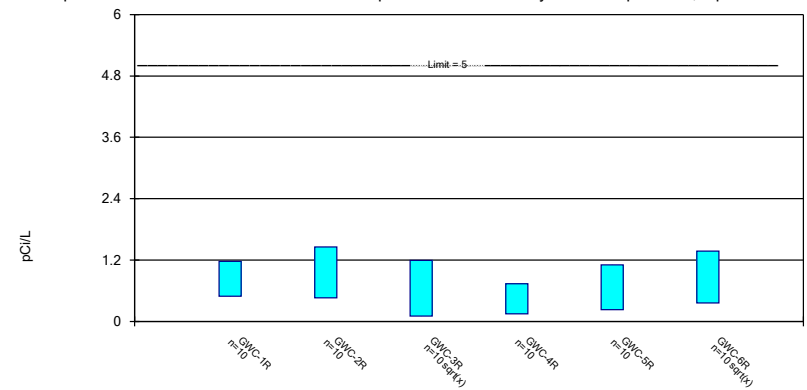
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/12/2020 2:12 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric Confidence Interval

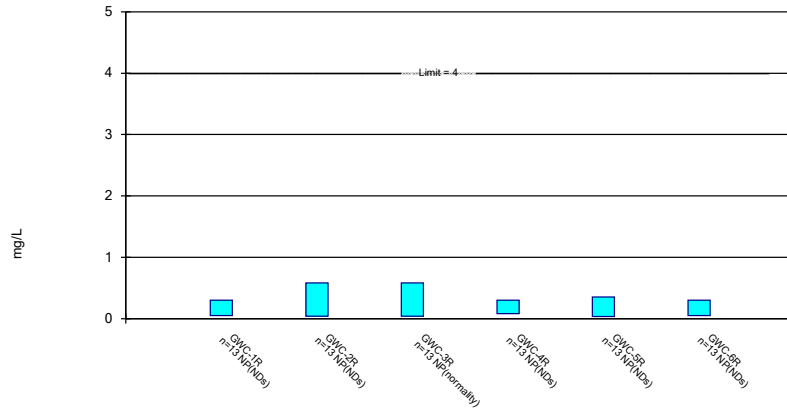
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 2:12 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

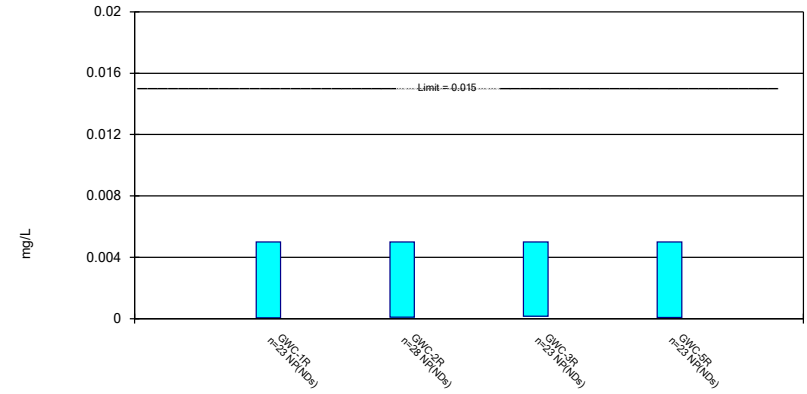
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Fluoride Analysis Run 5/12/2020 2:12 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

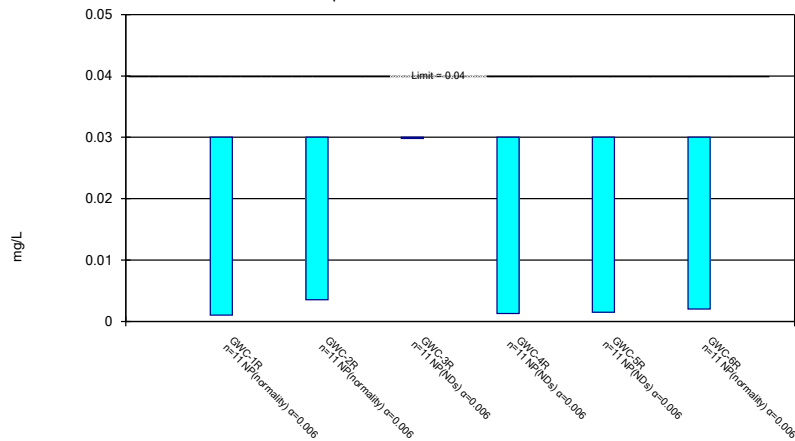
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 5/12/2020 2:12 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

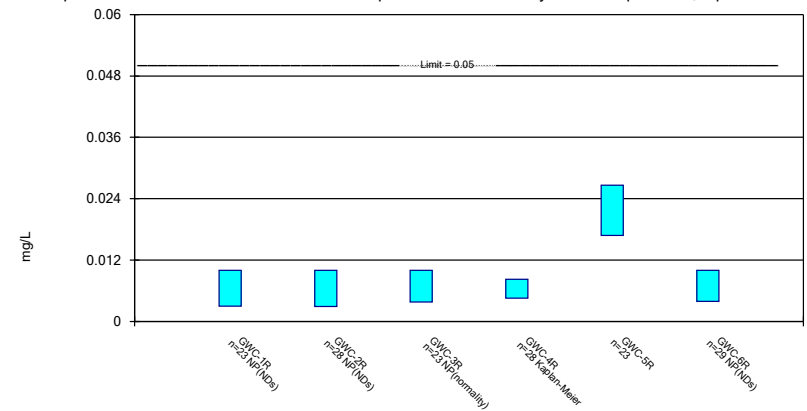
Compliance Limit is not exceeded.



Constituent: Lithium Analysis Run 5/12/2020 2:12 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

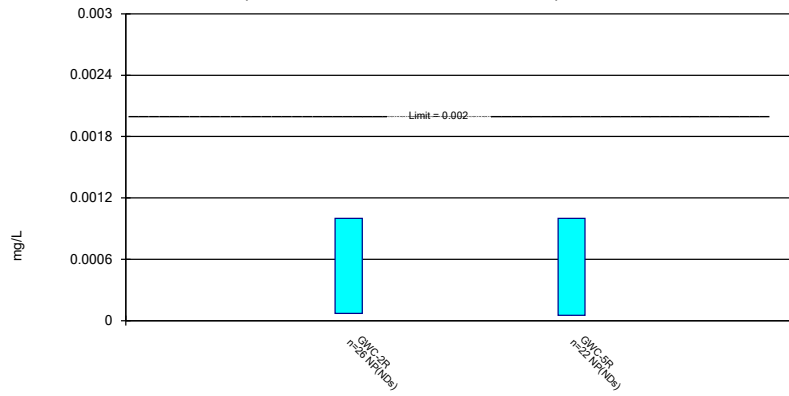
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/12/2020 2:12 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: Thallium Analysis Run 5/12/2020 2:12 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

FIGURE M.

State Confidence Intervals - Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/12/2020, 2:09 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Cobalt (mg/L)	GWC-2R	0.02831	0.01946	0.0068	Yes 28	0.02389	0.009476	3.571	None	No	0.01	Param.

State Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/12/2020, 2:09 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	GWC-4R	0.003	0.0014	0.006	No 28	0.002846	0.0005866	92.86	None	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-5R	0.003	0.00054	0.006	No 23	0.002893	0.0005129	95.65	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-1R	0.005	0.0009	0.01	No 23	0.004428	0.001512	86.96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-2R	0.005	0.00075	0.01	No 28	0.004848	0.0008032	96.43	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-3R	0.005	0.0016	0.01	No 23	0.004513	0.001296	86.96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-4R	0.005	0.00059	0.01	No 28	0.004677	0.001186	92.86	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-5R	0.005	0.0011	0.01	No 23	0.003319	0.001975	56.52	None	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-6R	0.005	0.0023	0.01	No 29	0.003889	0.001853	72.41	None	No	0.01	NP (NDs)
Barium (mg/L)	GWC-1R	0.05516	0.03584	2	No 23	0.0455	0.01847	0	None	No	0.01	Param.
Barium (mg/L)	GWC-2R	0.066	0.0481	2	No 28	0.06326	0.02353	0	None	No	0.01	NP (normality)
Barium (mg/L)	GWC-3R	0.04038	0.02146	2	No 23	0.03366	0.0246	0	None	x^(1/3)	0.01	Param.
Barium (mg/L)	GWC-4R	0.03964	0.02393	2	No 28	0.03347	0.01837	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-5R	0.0392	0.0222	2	No 23	0.0322	0.01714	0	None	sqrt(x)	0.01	Param.
Barium (mg/L)	GWC-6R	0.05844	0.038	2	No 29	0.04822	0.02231	0	None	No	0.01	Param.
Beryllium (mg/L)	GWC-1R	0.003	0.00008	0.004	No 23	0.001741	0.001468	56.52	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-2R	0.003	0.00017	0.004	No 28	0.002484	0.001127	82.14	None	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-3R	0.003	0.00038	0.004	No 23	0.001253	0.001202	30.43	None	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-5R	0.003	0.0004	0.004	No 23	0.001587	0.001217	30.43	None	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-1R	0.001	0.00008	0.005	No 23	0.00096	0.0001918	95.65	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-2R	0.001	0.0001	0.005	No 28	0.0009357	0.000236	92.86	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-3R	0.001	0.00037	0.005	No 23	0.0008026	0.0003429	73.91	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-4R	0.001	0.0001	0.005	No 28	0.0009679	0.0001701	96.43	None	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-5R	0.0008002	0.0004938	0.005	No 23	0.0007935	0.0002979	34.78	Kaplan-Meier	x^2	0.01	Param.
Chromium (mg/L)	GWC-1R	0.01	0.001	0.1	No 23	0.005783	0.004519	52.17	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-2R	0.01	0.0017	0.1	No 28	0.008696	0.003258	85.71	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-3R	0.01	0.0012	0.1	No 23	0.003997	0.004076	30.43	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-4R	0.01	0.0062	0.1	No 28	0.008228	0.003584	78.57	None	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-5R	0.0029	0.0018	0.1	No 23	0.003861	0.003329	21.74	None	No	0.01	NP (normality)
Chromium (mg/L)	GWC-6R	0.01	0.0014	0.1	No 29	0.004751	0.004192	37.93	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-1R	0.005	0.00079	0.0068	No 23	0.003396	0.00324	43.48	None	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-2R	0.02831	0.01946	0.0068	Yes 28	0.02389	0.009476	3.571	None	No	0.01	Param.
Cobalt (mg/L)	GWC-3R	0.01	0.0016	0.0068	No 23	0.00533	0.001784	86.96	None	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-4R	0.003312	0.001558	0.0068	No 28	0.003435	0.002063	32.14	Kaplan-Meier	No	0.01	Param.
Cobalt (mg/L)	GWC-5R	0.005	0.00044	0.0068	No 23	0.004395	0.001597	86.96	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-6R	0.005	0.0014	0.0068	No 29	0.004876	0.0006685	96.55	Kaplan-Meier	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GWC-1R	1.175	0.4893	5	No 10	0.8323	0.3844	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2R	1.456	0.4584	5	No 10	0.9574	0.5592	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-3R	1.192	0.1061	5	No 10	0.668	0.8093	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-4R	0.7375	0.1498	5	No 10	0.4437	0.3293	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-5R	1.107	0.2268	5	No 10	0.6667	0.4931	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-6R	1.373	0.3586	5	No 10	0.8764	0.6526	0	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	GWC-1R	0.3	0.05	4	No 13	0.2238	0.119	69.23	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-2R	0.58	0.04	4	No 13	0.2446	0.1554	61.54	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-3R	0.58	0.037	4	No 13	0.2213	0.1599	46.15	None	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-4R	0.3	0.08	4	No 13	0.2369	0.1012	69.23	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-5R	0.35	0.035	4	No 13	0.2473	0.1249	61.54	None	No	0.01	NP (NDs)
Fluoride (mg/L)	GWC-6R	0.3	0.05	4	No 13	0.24	0.1108	69.23	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-1R	0.005	0.000052	0.005	No 23	0.004785	0.001032	95.65	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-2R	0.005	0.0001	0.005	No 28	0.004296	0.001756	85.71	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-3R	0.005	0.00015	0.005	No 23	0.004148	0.001898	82.61	None	No	0.01	NP (NDs)
Lead (mg/L)	GWC-5R	0.005	0.000079	0.005	No 23	0.004357	0.001698	86.96	None	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-1R	0.03	0.001	0.03	No 11	0.009258	0.01333	27.27	None	No	0.006	NP (normality)
Lithium (mg/L)	GWC-2R	0.03	0.0035	0.03	No 11	0.01105	0.01219	27.27	None	No	0.006	NP (normality)
Lithium (mg/L)	GWC-3R	0.03	0.03	0.03	No 11	0.02738	0.008684	90.91	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-4R	0.03	0.0013	0.03	No 11	0.02475	0.01168	81.82	None	No	0.006	NP (NDs)

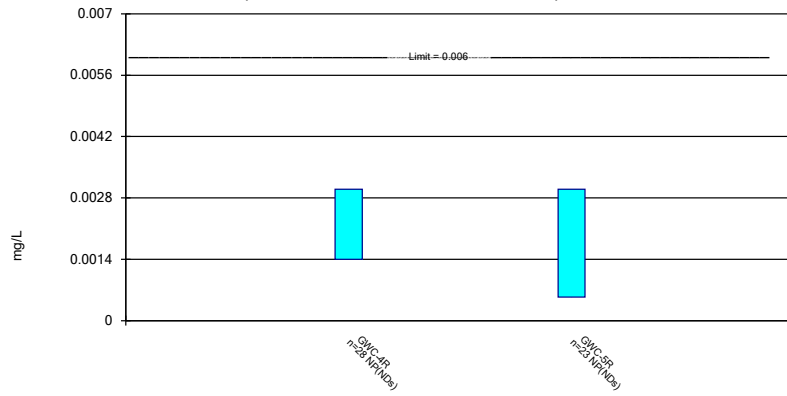
State Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/12/2020, 2:09 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lithium (mg/L)	GWC-5R	0.03	0.0015	0.03	No 11	0.02224	0.0133	72.73	None	No	0.006	NP (NDs)
Lithium (mg/L)	GWC-6R	0.03	0.002	0.03	No 11	0.01261	0.01382	36.36	None	No	0.006	NP (normality)
Selenium (mg/L)	GWC-1R	0.01	0.003	0.05	No 23	0.007226	0.003638	56.52	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-2R	0.01	0.0029	0.05	No 28	0.006821	0.003759	57.14	None	No	0.01	NP (NDs)
Selenium (mg/L)	GWC-3R	0.01	0.0038	0.05	No 23	0.007065	0.003436	47.83	None	No	0.01	NP (normality)
Selenium (mg/L)	GWC-4R	0.008241	0.004554	0.05	No 28	0.007971	0.003786	28.57	Kaplan-Meier	No	0.01	Param.
Selenium (mg/L)	GWC-5R	0.02662	0.01683	0.05	No 23	0.02173	0.009358	4.348	None	No	0.01	Param.
Selenium (mg/L)	GWC-6R	0.01	0.0039	0.05	No 29	0.007252	0.003422	58.62	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-2R	0.001	0.00007	0.002	No 26	0.0009642	0.0001824	96.15	None	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-5R	0.001	0.000053	0.002	No 22	0.000957	0.0002019	95.45	None	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

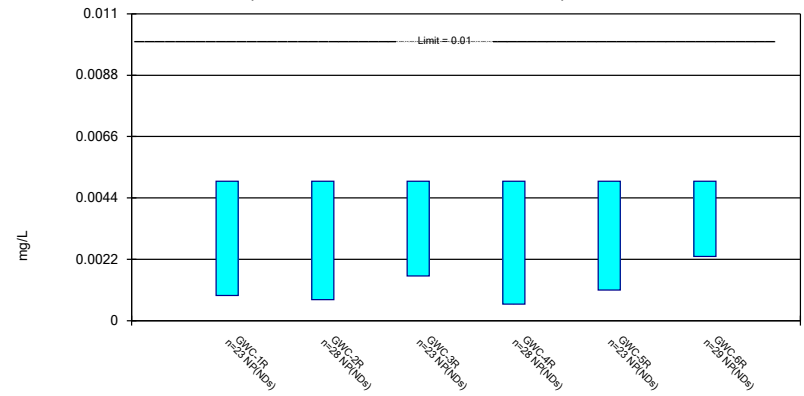
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 5/12/2020 2:08 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

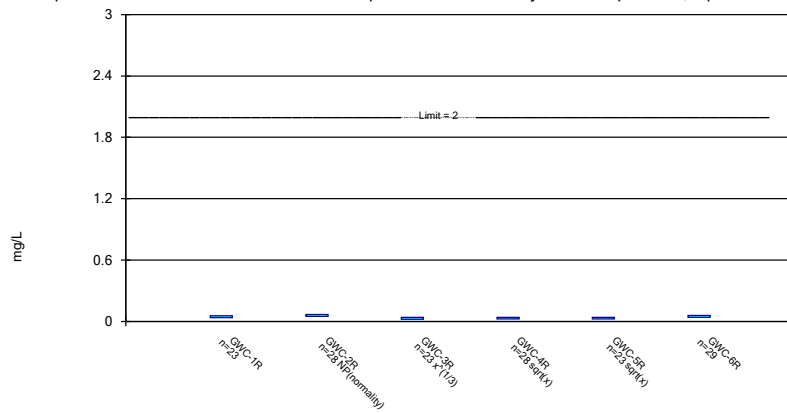
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Arsenic Analysis Run 5/12/2020 2:08 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

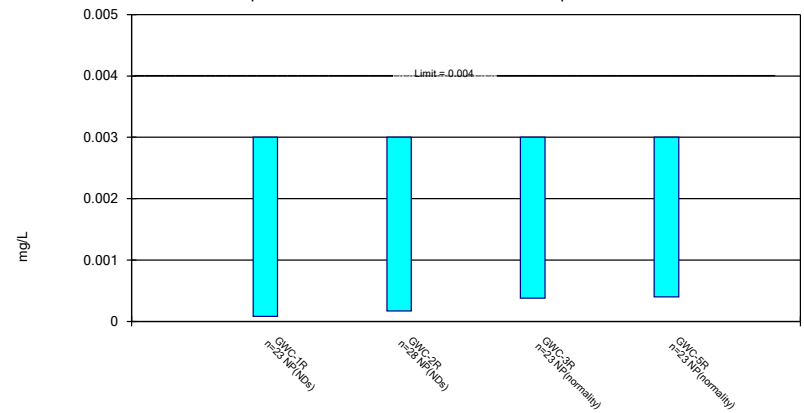
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 5/12/2020 2:08 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

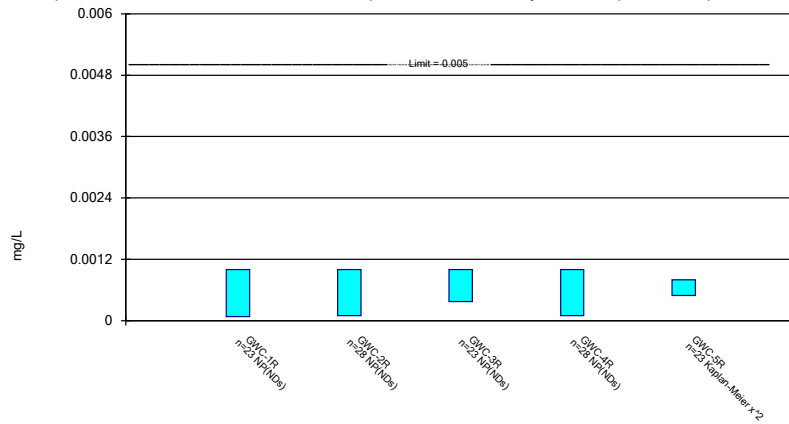
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 5/12/2020 2:08 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

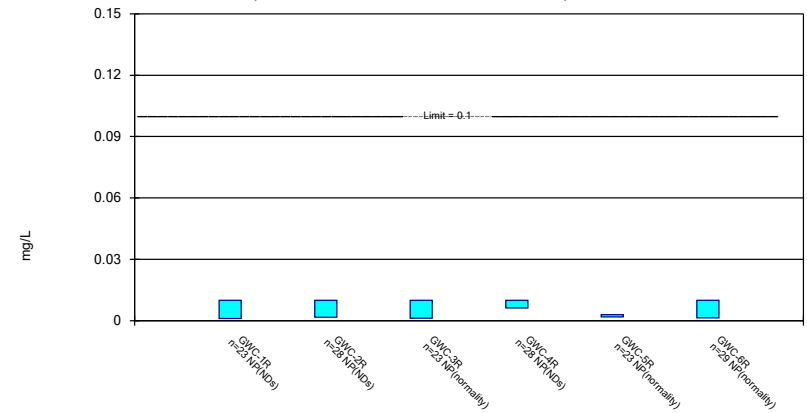
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 5/12/2020 2:08 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

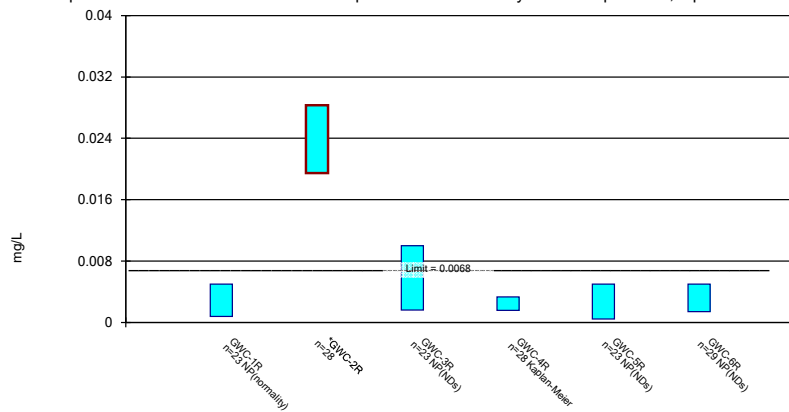
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 5/12/2020 2:08 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

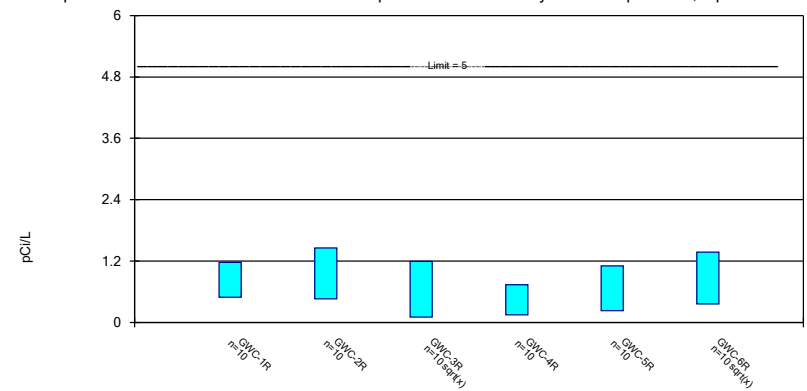
Compliance limit is exceeded.* Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/12/2020 2:08 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric Confidence Interval

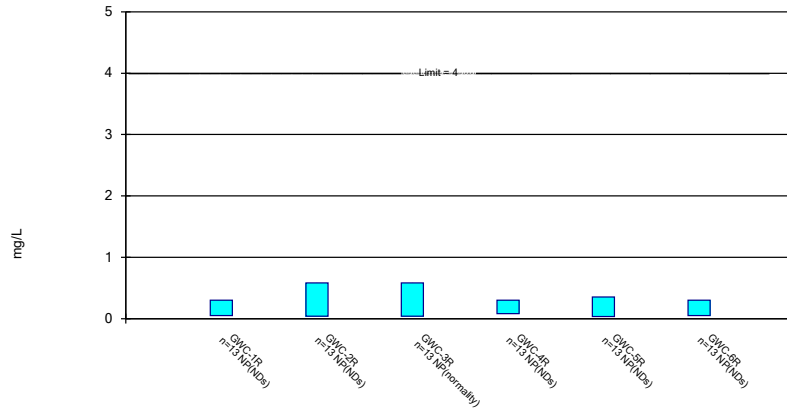
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 2:08 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

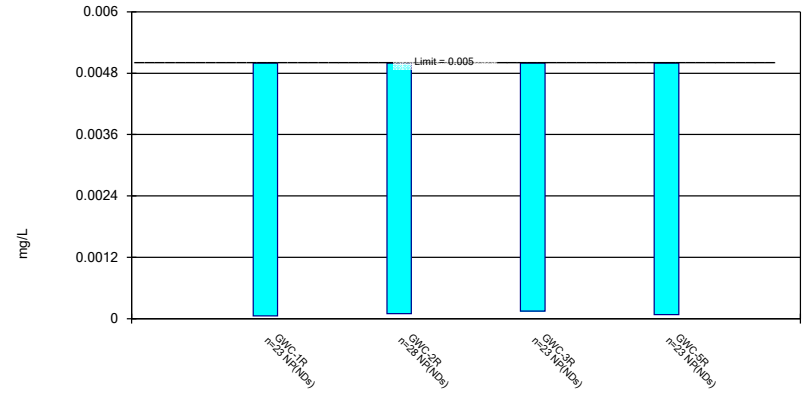
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Fluoride Analysis Run 5/12/2020 2:08 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

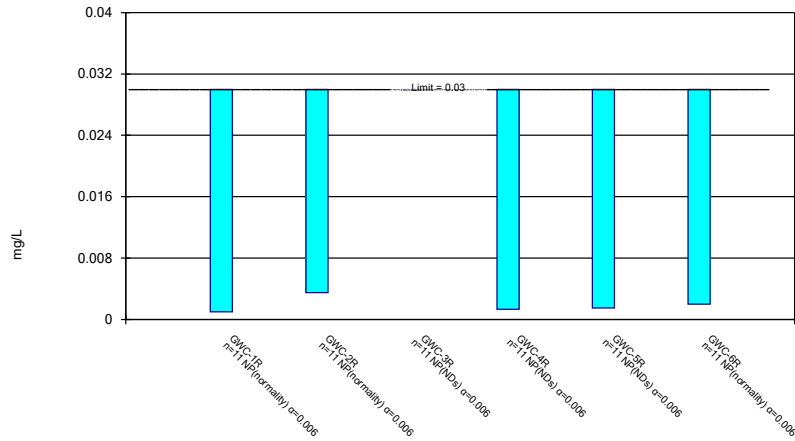
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 5/12/2020 2:08 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

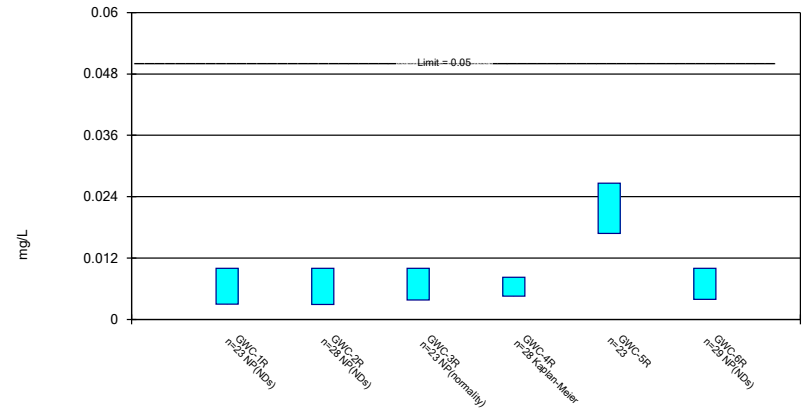
Compliance Limit is not exceeded.



Constituent: Lithium Analysis Run 5/12/2020 2:08 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

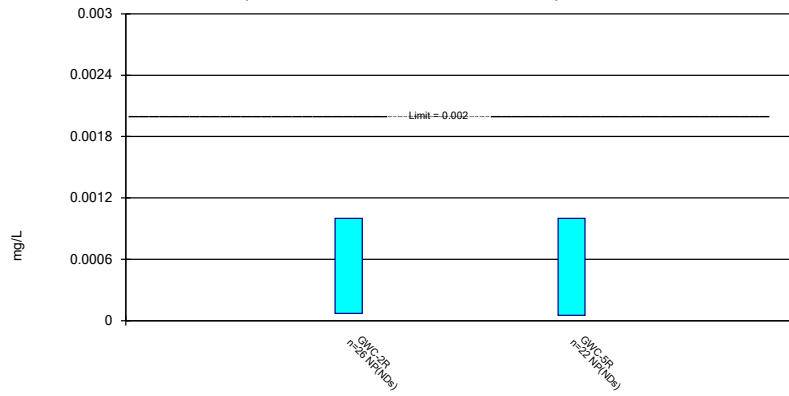
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/12/2020 2:08 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: Thallium Analysis Run 5/12/2020 2:08 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

FIGURE N.

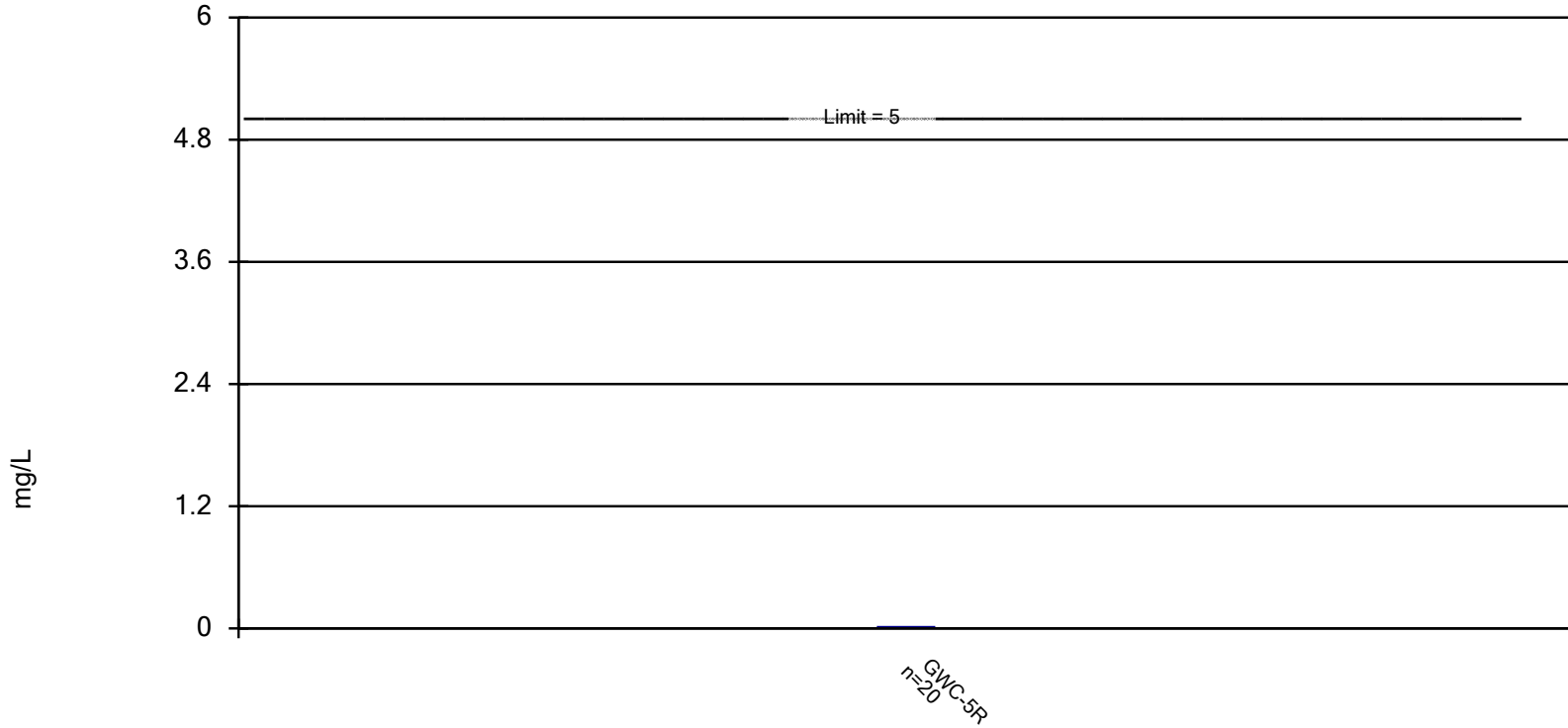
State Parameter Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 5/21/2020, 12:29 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig. N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Zinc (mg/L)	GWC-5R	0.01391	0.006461	5	No 20	0.01019	0.006557	0	None	No	0.01	Param.

Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



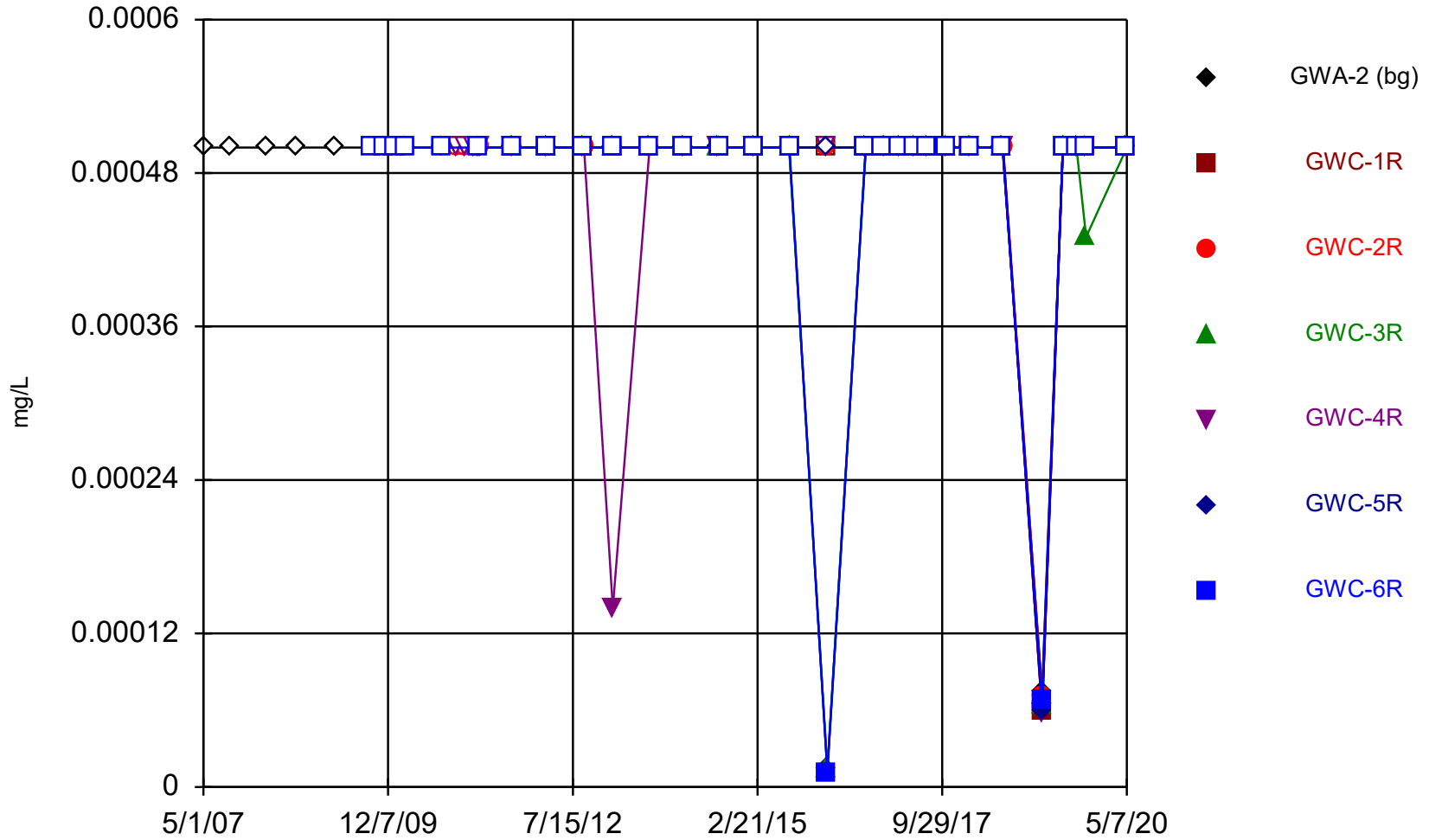
Constituent: Zinc Analysis Run 5/21/2020 12:27 PM View: State Parameter Confidence Intervals
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Mercury Addendum

May 2020 Sampling Event



Time Series



Constituent: Mercury Analysis Run 7/7/2020 11:33 AM View: Mercury Addendum Report
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/7/2020 11:33 AM View: Mercury Addendum Report

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

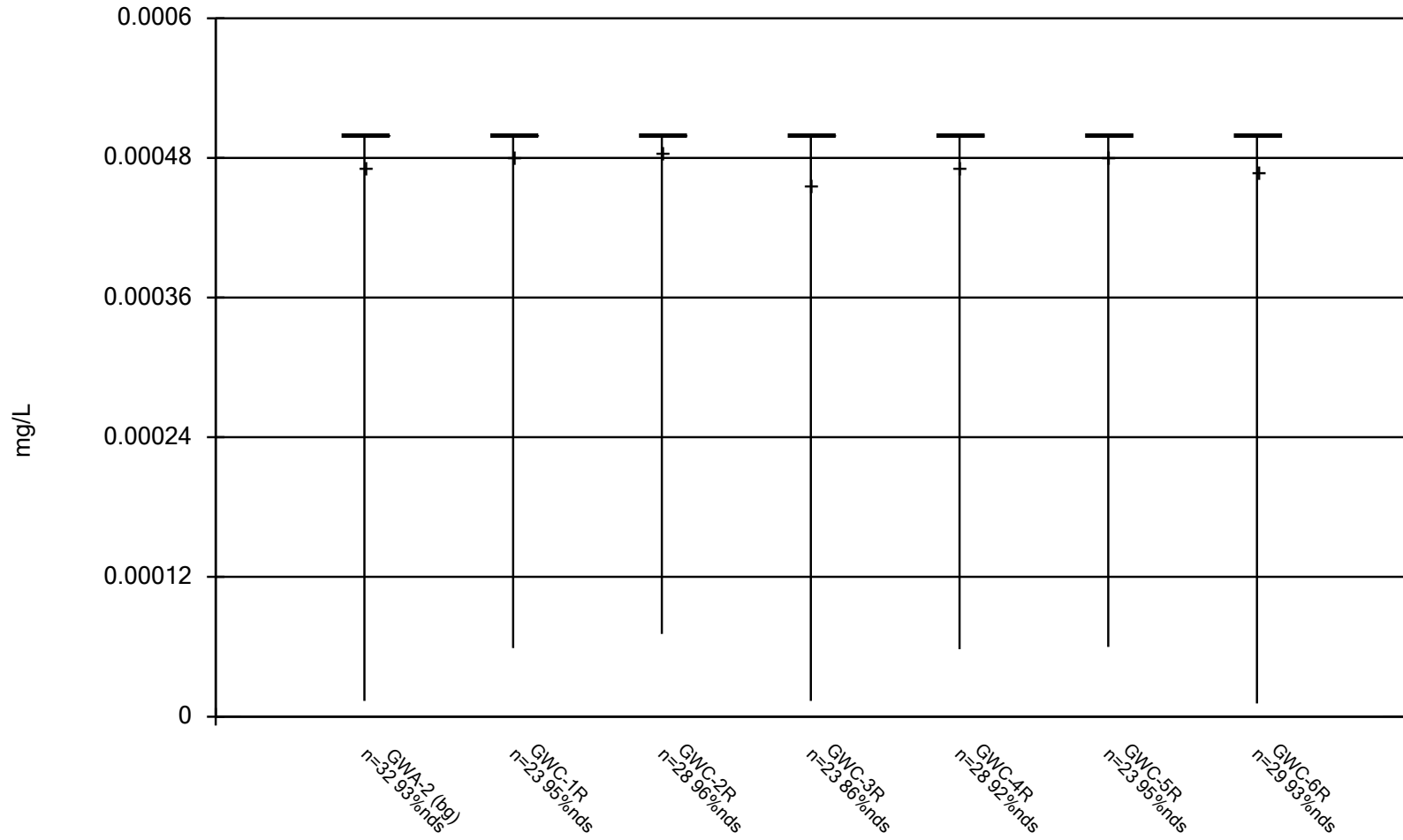
	GWA-2 (bg)	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
5/1/2007	<0.0005						
9/11/2007	<0.0005						
3/20/2008	<0.0005						
8/27/2008	<0.0005						
3/3/2009	<0.0005						
9/9/2009							<0.0005
11/18/2009	<0.0005						<0.0005
1/5/2010							<0.0005
3/3/2010	<0.0005						<0.0005
9/7/2010							<0.0005
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	0.00014		
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				<0.0005	<0.0005	<0.0005	
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)	<0.0005 (D)	
8/4/2015		<0.0005 (D)	<0.0005				<0.0005
2/16/2016	1.36E-05 (J)	<0.0005		1.34E-05 (J)	<0.0005	<0.0005	1.13E-05 (J)
2/17/2016			<0.0005				
8/31/2016	<0.0005	<0.0005	<0.0005	<0.0005			
9/1/2016					<0.0005	<0.0005	<0.0005
11/28/2016	<0.0005		<0.0005				
11/29/2016		<0.0005					<0.0005
11/30/2016				<0.0005	<0.0005		
12/1/2016						<0.0005	
2/22/2017	<0.0005		<0.0005				
2/23/2017		<0.0005		<0.0005			<0.0005
2/24/2017					<0.0005	<0.0005	
5/8/2017	<0.0005						
5/9/2017		<0.0005		<0.0005			

Time Series

Constituent: Mercury (mg/L) Analysis Run 7/7/2020 11:33 AM View: Mercury Addendum Report
 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	<0.0005	<0.0005
7/17/2017	<0.0005					<0.0005	
7/18/2017		<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
10/16/2017	<0.0005					<0.0005	
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		<0.0005	
8/8/2018			<0.0005		<0.0005		
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	<0.0005		<0.0005		<0.0005		
6/13/2019		<0.0005		<0.0005		<0.0005	<0.0005
8/19/2019	<0.0005				<0.0005		
8/20/2019		<0.0005	<0.0005				<0.0005
8/21/2019				<0.0005		<0.0005	
10/8/2019	<0.0005						<0.0005
10/9/2019		<0.0005	<0.0005			<0.0005	
10/10/2019				0.00043 (J)	<0.0005		
5/6/2020	<0.0005	<0.0005					<0.0005
5/7/2020			<0.0005	<0.0005	<0.0005	<0.0005	

Box & Whiskers Plot



Constituent: Mercury Analysis Run 7/7/2020 11:33 AM View: Mercury Addendum Report
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tolerance Limit Summary Table

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 7/7/2020, 11:38 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Mercury (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	32	n/a	n/a	93.75	n/a	n/a	0.1937	NP Inter(NDs)

YATES LANDFILL GYPSUM STACK GWPS			
Constituent Name	MCL	Background Limit	GWPS
Mercury, Total (mg/L)	0.002	0.0005	0.002

**GWPS = Groundwater Protection Standard*

**MCL = Maximum Contaminant Level*

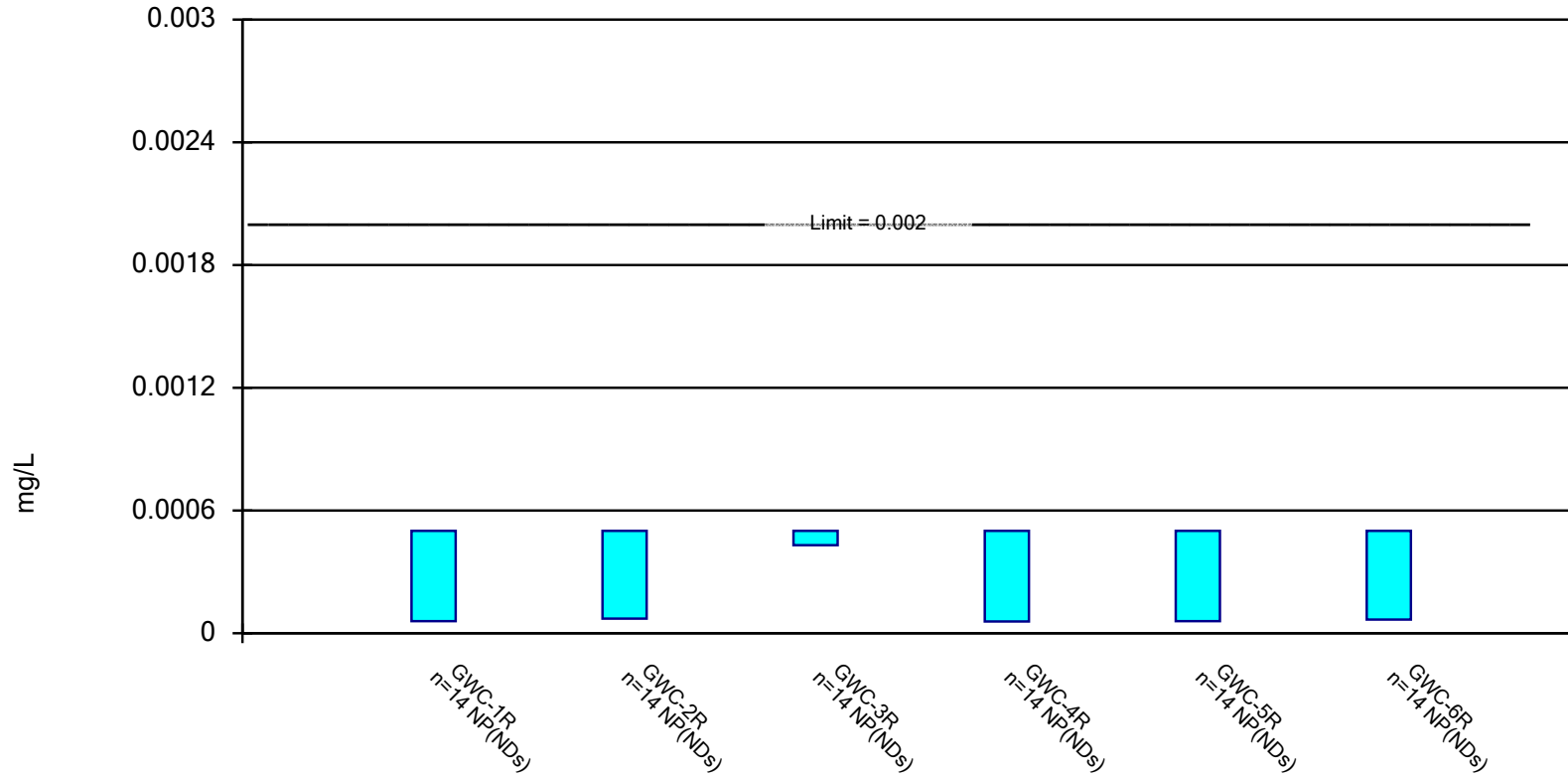
Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 7/7/2020, 11:40 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Mercury (mg/L)	GWC-1R	0.0005	0.000059	0.002	No	14	0.0004685	0.0001179	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-2R	0.0005	0.000071	0.002	No	14	0.0004694	0.0001147	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-3R	0.0005	0.00043	0.002	No	14	0.0004291	0.0001667	78.57	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-4R	0.0005	0.000058	0.002	No	14	0.0004684	0.0001181	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-5R	0.0005	0.00006	0.002	No	14	0.0004686	0.0001176	92.86	None	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-6R	0.0005	0.000067	0.002	No	14	0.0004342	0.0001677	85.71	None	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 7/7/2020 11:40 AM View: Mercury Addendum Report
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

October 2019 Statistics



Intrawell Prediction Limit

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 2/12/2020, 7:24 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Antimony (mg/L)	GWC-1R	0.003	n/a	10/9/2019	0.0015ND	No	18	100	n/a	0.005373	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-2R	0.003	n/a	10/9/2019	0.0015ND	No	23	100	n/a	0.003415	NP (NDs) 1 of 2
Antimony (mg/L)	GWC-6R	0.003	n/a	10/8/2019	0.0015ND	No	24	100	n/a	0.003124	NP (NDs) 1 of 2
Arsenic (mg/L)	GWA-1	0.009	n/a	n/a	1 future	n/a	7	100	n/a	0.02765	NP (NDs) 1 of 2
Arsenic (mg/L)	GWA-2	0.005	n/a	10/8/2019	0.0025ND	No	27	100	n/a	0.002502	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-1R	0.0025	n/a	10/9/2019	0.0025ND	No	18	88.89	n/a	0.005373	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-2R	0.005	n/a	10/9/2019	0.0025ND	No	23	100	n/a	0.003415	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-3R	0.005	n/a	10/10/2019	0.0025ND	No	18	100	n/a	0.005373	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-4R	0.005	n/a	10/10/2019	0.0025ND	No	23	100	n/a	0.003415	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-5R	0.0025	n/a	10/9/2019	0.0012	No	18	72.22	n/a	0.005373	NP (NDs) 1 of 2
Arsenic (mg/L)	GWC-6R	0.0025	n/a	10/8/2019	0.00056	No	24	83.33	n/a	0.003124	NP (NDs) 1 of 2
Barium (mg/L)	GWA-1	0.04688	n/a	n/a	1 future	n/a	7	0	No	0.000...	Param 1 of 2
Barium (mg/L)	GWA-2	0.0797	n/a	10/8/2019	0.058	No	27	0	No	0.000...	Param 1 of 2
Barium (mg/L)	GWC-1R	0.09247	n/a	10/9/2019	0.054	No	18	0	No	0.000...	Param 1 of 2
Barium (mg/L)	GWC-2R	0.13	n/a	10/9/2019	0.045	No	23	0	n/a	0.003415	NP (normality) 1 of 2
Barium (mg/L)	GWC-3R	0.1081	n/a	10/10/2019	0.018	No	18	0	sqrt(x)	0.000...	Param 1 of 2
Barium (mg/L)	GWC-4R	0.07836	n/a	10/10/2019	0.018	No	19	0	sqrt(x)	0.000...	Param 1 of 2
Barium (mg/L)	GWC-5R	0.06342	n/a	10/9/2019	0.015	No	14	0	No	0.000...	Param 1 of 2
Cobalt (mg/L)	GWA-1	0.013	n/a	n/a	1 future	n/a	7	57.14	n/a	0.02765	NP (NDs) 1 of 2
Cobalt (mg/L)	GWA-2	0.006993	n/a	10/8/2019	0.0039	No	27	40.74	No	0.000...	Param 1 of 2
Cobalt (mg/L)	GWC-1R	0.005	n/a	10/9/2019	0.00064	No	17	52.94	n/a	0.005914	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-2R	0.04763	n/a	10/9/2019	0.024	No	23	4.348	No	0.000...	Param 1 of 2
Cobalt (mg/L)	GWC-3R	0.01	n/a	10/10/2019	0.0025ND	No	18	100	n/a	0.005373	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-4R	0.008261	n/a	10/10/2019	0.00099	No	23	34.78	sqrt(x)	0.000...	Param 1 of 2
Cobalt (mg/L)	GWC-5R	0.01	n/a	10/9/2019	0.00031	No	18	100	n/a	0.005373	NP (NDs) 1 of 2
Cobalt (mg/L)	GWC-6R	0.005	n/a	10/8/2019	0.0025ND	No	24	95.83	n/a	0.003124	NP (NDs) 1 of 2
Copper (mg/L)	GWA-1	0.03108	n/a	n/a	1 future	n/a	7	28.57	ln(x)	0.000...	Param 1 of 2
Copper (mg/L)	GWA-2	0.0125	n/a	10/8/2019	0.00041	No	22	54.55	n/a	0.003707	NP (NDs) 1 of 2
Copper (mg/L)	GWC-1R	0.0125	n/a	10/9/2019	0.00079	No	13	92.31	n/a	0.009692	NP (NDs) 1 of 2
Copper (mg/L)	GWC-2R	0.025	n/a	10/9/2019	0.00024	No	18	100	n/a	0.005373	NP (NDs) 1 of 2
Copper (mg/L)	GWC-3R	0.016	n/a	10/10/2019	0.00033	No	13	76.92	n/a	0.009692	NP (NDs) 1 of 2
Copper (mg/L)	GWC-4R	0.0125	n/a	10/10/2019	0.0125ND	No	18	88.89	n/a	0.005373	NP (NDs) 1 of 2
Copper (mg/L)	GWC-5R	0.0125	n/a	10/9/2019	0.00087	No	13	92.31	n/a	0.009692	NP (NDs) 1 of 2
Copper (mg/L)	GWC-6R	0.0065	n/a	10/8/2019	0.0011	No	19	57.89	n/a	0.004832	NP (NDs) 1 of 2
Lead (mg/L)	GWA-1	0.015	n/a	n/a	1 future	n/a	7	57.14	n/a	0.02765	NP (NDs) 1 of 2
Lead (mg/L)	GWC-1R	0.005	n/a	10/9/2019	0.000052	No	18	100	n/a	0.005373	NP (NDs) 1 of 2
Lead (mg/L)	GWC-2R	0.0065	n/a	10/9/2019	0.000057	No	23	91.3	n/a	0.003415	NP (NDs) 1 of 2
Lead (mg/L)	GWC-3R	0.0065	n/a	10/10/2019	0.0025ND	No	18	88.89	n/a	0.005373	NP (NDs) 1 of 2
Lead (mg/L)	GWC-5R	0.005	n/a	10/9/2019	0.000059	No	18	100	n/a	0.005373	NP (NDs) 1 of 2
Mercury (mg/L)	GWA-2	0.0002955	n/a	10/8/2019	0.0001ND	No	27	96.3	n/a	0.002502	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-1R	0.0005	n/a	10/9/2019	0.0001ND	No	18	100	n/a	0.005373	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-2R	0.0005	n/a	10/9/2019	0.0001ND	No	23	100	n/a	0.003415	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-3R	0.00025	n/a	10/10/2019	0.00043	No	18	94.44	n/a	0.005373	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-4R	0.00025	n/a	10/10/2019	0.0001ND	No	23	95.65	n/a	0.003415	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-5R	0.0005	n/a	10/9/2019	0.0001ND	No	18	100	n/a	0.005373	NP (NDs) 1 of 2
Mercury (mg/L)	GWC-6R	0.0002955	n/a	10/8/2019	0.0001ND	No	24	95.83	n/a	0.003124	NP (NDs) 1 of 2
Nickel (mg/L)	GWA-1	0.0061	n/a	n/a	1 future	n/a	7	85.71	n/a	0.02765	NP (NDs) 1 of 2
Nickel (mg/L)	GWA-2	0.02197	n/a	10/8/2019	0.0051	No	22	13.64	sqrt(x)	0.000...	Param 1 of 2
Nickel (mg/L)	GWC-1R	0.008517	n/a	10/9/2019	0.0015	No	13	38.46	sqrt(x)	0.000...	Param 1 of 2
Nickel (mg/L)	GWC-2R	0.01211	n/a	10/9/2019	0.00058	No	18	44.44	sqrt(x)	0.000...	Param 1 of 2

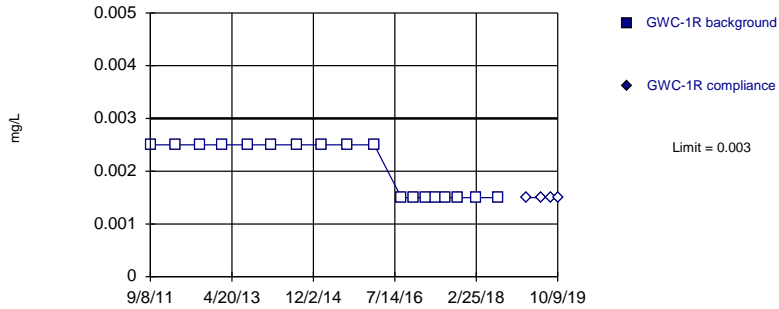
Intrawell Prediction Limit

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 2/12/2020, 7:24 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Nickel (mg/L)	GWC-3R	0.0054	n/a	10/10/2019	0.005ND	No	13	69.23	n/a	0.009692	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-4R	0.0033	n/a	10/10/2019	0.00084	No	18	77.78	n/a	0.005373	NP (NDs) 1 of 2
Nickel (mg/L)	GWC-5R	0.006522	n/a	10/9/2019	0.0019	No	13	30.77	sqrt(x)	0.000...	Param 1 of 2
Nickel (mg/L)	GWC-6R	0.0026	n/a	10/8/2019	0.0021	No	19	89.47	n/a	0.004832	NP (NDs) 1 of 2
Selenium (mg/L)	GWA-1	0.015	n/a	n/a	1 future	n/a	7	85.71	n/a	0.02765	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-1R	0.0097	n/a	10/9/2019	0.0023	No	18	66.67	n/a	0.005373	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-2R	0.0065	n/a	10/9/2019	0.0026	No	23	69.57	n/a	0.003415	NP (NDs) 1 of 2
Selenium (mg/L)	GWC-3R	0.0065	n/a	10/10/2019	0.0021	No	18	61.11	n/a	0.005373	NP (NDs) 1 of 2
Barium (mg/L)	GWC-6R	0.103	n/a	10/8/2019	0.054	No	24	0	No	0.000...	Param 1 of 2
Beryllium (mg/L)	GWA-1	0.001	n/a	n/a	1 future	n/a	7	100	n/a	0.02765	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-1R	0.0015	n/a	10/9/2019	0.00013	No	18	66.67	n/a	0.005373	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-2R	0.0015	n/a	10/9/2019	0.00014	No	23	95.65	n/a	0.003415	NP (NDs) 1 of 2
Beryllium (mg/L)	GWC-3R	0.001136	n/a	10/10/2019	0.00039	No	18	38.89	No	0.000...	Param 1 of 2
Beryllium (mg/L)	GWC-5R	0.001003	n/a	10/9/2019	0.0022	No	18	38.89	sqrt(x)	0.000...	Param 1 of 2
Cadmium (mg/L)	GWC-1R	0.00065	n/a	10/9/2019	0.00125ND	No	18	94.44	n/a	0.005373	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-2R	0.00065	n/a	10/9/2019	0.00125ND	No	23	91.3	n/a	0.003415	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-3R	0.00065	n/a	10/10/2019	0.00018	No	18	88.89	n/a	0.005373	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-4R	0.00065	n/a	10/10/2019	0.00125ND	No	23	95.65	n/a	0.003415	NP (NDs) 1 of 2
Cadmium (mg/L)	GWC-5R	0.00104	n/a	10/9/2019	0.0011	No	18	44.44	No	0.000...	Param 1 of 2
Chromium (mg/L)	GWA-1	0.01	n/a	n/a	1 future	n/a	7	71.43	n/a	0.02765	NP (NDs) 1 of 2
Chromium (mg/L)	GWA-2	0.0084	n/a	10/8/2019	0.005ND	No	27	70.37	n/a	0.002502	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-1R	0.005	n/a	10/9/2019	0.0012	No	18	61.11	n/a	0.005373	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-2R	0.005	n/a	10/9/2019	0.00059	No	23	91.3	n/a	0.003415	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-3R	0.002598	n/a	10/10/2019	0.0014	No	18	33.33	x^(1/3)	0.000...	Param 1 of 2
Chromium (mg/L)	GWC-4R	0.0062	n/a	10/10/2019	0.00057	No	23	82.61	n/a	0.003415	NP (NDs) 1 of 2
Chromium (mg/L)	GWC-5R	0.003114	n/a	10/9/2019	0.0024	No	18	27.78	No	0.000...	Param 1 of 2
Chromium (mg/L)	GWC-6R	0.002532	n/a	10/8/2019	0.0014	No	24	41.67	ln(x)	0.000...	Param 1 of 2
Selenium (mg/L)	GWC-4R	0.01742	n/a	10/10/2019	0.0024	No	23	34.78	sqrt(x)	0.000...	Param 1 of 2
Selenium (mg/L)	GWC-5R	0.04174	n/a	10/9/2019	0.034	No	18	5.556	No	0.000...	Param 1 of 2
Selenium (mg/L)	GWC-6R	0.0065	n/a	10/8/2019	0.0031	No	24	70.83	n/a	0.003124	NP (NDs) 1 of 2
Thallium (mg/L)	GWA-2	0.001	n/a	10/8/2019	0.0005ND	No	26	88.46	n/a	0.002667	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-2R	0.001	n/a	10/9/2019	0.0005ND	No	21	95.24	n/a	0.003999	NP (NDs) 1 of 2
Thallium (mg/L)	GWC-5R	0.001	n/a	10/9/2019	0.0005ND	No	17	100	n/a	0.005914	NP (NDs) 1 of 2
Vanadium (mg/L)	GWA-2	0.0055	n/a	10/8/2019	0.005ND	No	24	83.33	n/a	0.003124	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-1R	0.0051	n/a	10/9/2019	0.005ND	No	15	80	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-2R	0.01	n/a	10/9/2019	0.005ND	No	20	100	n/a	0.004291	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-3R	0.01	n/a	10/10/2019	0.0011	No	15	100	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-4R	0.01	n/a	10/10/2019	0.005ND	No	20	100	n/a	0.004291	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-5R	0.005	n/a	10/9/2019	0.005ND	No	15	80	n/a	0.007533	NP (NDs) 1 of 2
Vanadium (mg/L)	GWC-6R	0.005	n/a	10/8/2019	0.005ND	No	21	76.19	n/a	0.003999	NP (NDs) 1 of 2
Zinc (mg/L)	GWA-1	0.03637	n/a	n/a	1 future	n/a	7	14.29	No	0.000...	Param 1 of 2
Zinc (mg/L)	GWA-2	0.00866	n/a	10/8/2019	0.0078	No	23	4.348	No	0.000...	Param 1 of 2
Zinc (mg/L)	GWC-1R	0.006764	n/a	10/9/2019	0.0078	No	15	20	sqrt(x)	0.000...	Param 1 of 2
Zinc (mg/L)	GWC-2R	0.01019	n/a	10/9/2019	0.0069	No	20	10	sqrt(x)	0.000...	Param 1 of 2
Zinc (mg/L)	GWC-3R	0.01414	n/a	10/10/2019	0.0079	No	14	7.143	No	0.000...	Param 1 of 2
Zinc (mg/L)	GWC-4R	0.005	n/a	10/10/2019	0.006	No	19	63.16	n/a	0.004832	NP (NDs) 1 of 2
Zinc (mg/L)	GWC-5R	0.01808	n/a	1/21/2020	0.015	No	15	0	No	0.000...	Param 1 of 2
Zinc (mg/L)	GWC-6R	0.005076	n/a	10/8/2019	0.006	No	21	33.33	No	0.000...	Param 1 of 2

Within Limit

Prediction Limit
Intrawell Non-parametric

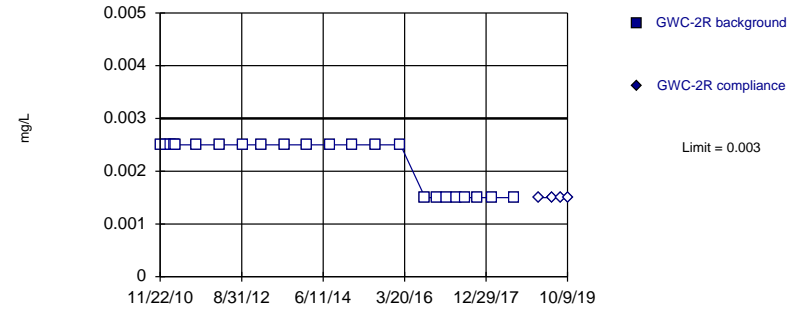


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Antimony Analysis Run 2/12/2020 7:19 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

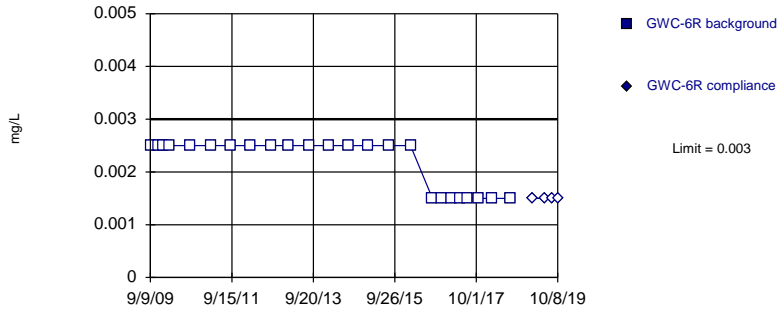


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Antimony Analysis Run 2/12/2020 7:19 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

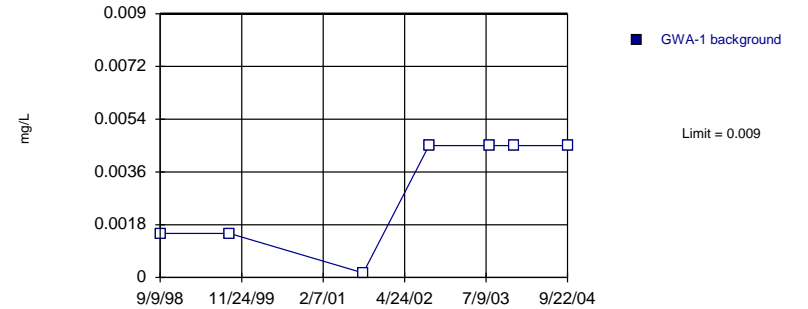


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 24) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Antimony Analysis Run 2/12/2020 7:19 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric, GWA-1 (bg)

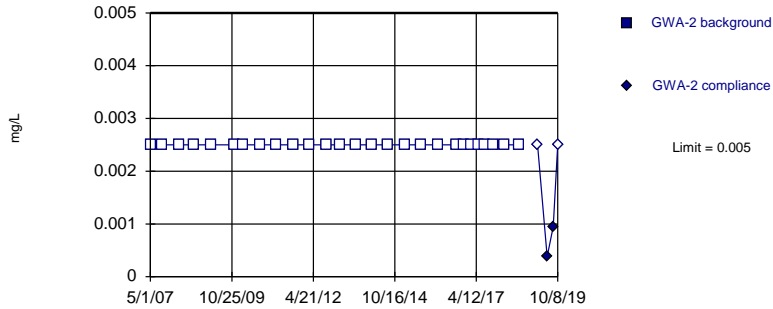


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 7) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.05455. Individual comparison alpha = 0.02765 (1 of 2). Assumes 1 future value.

Constituent: Arsenic Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

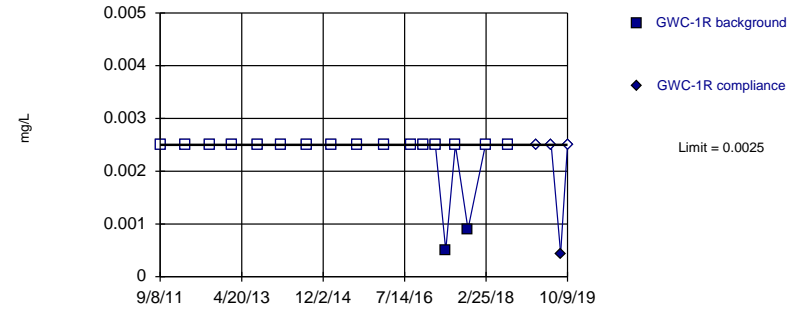


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 27) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Arsenic Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

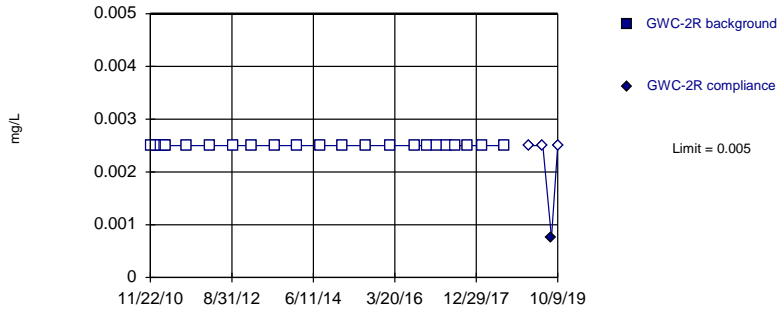


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Arsenic Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

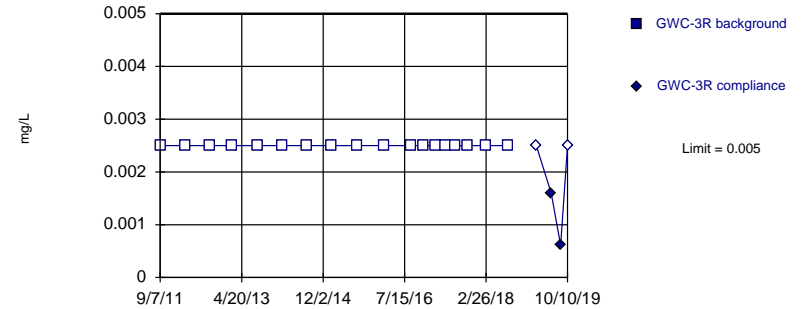


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Arsenic Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

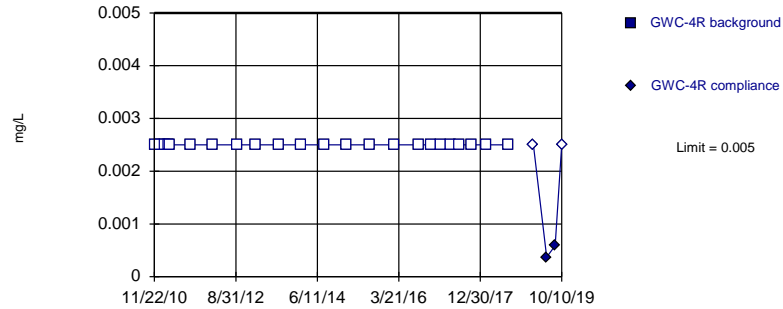


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Arsenic Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

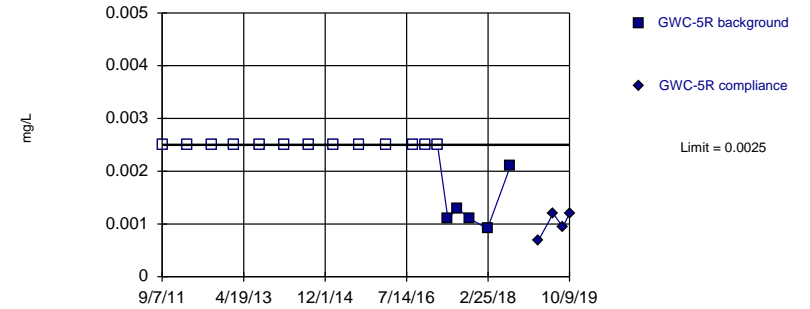


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Arsenic Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

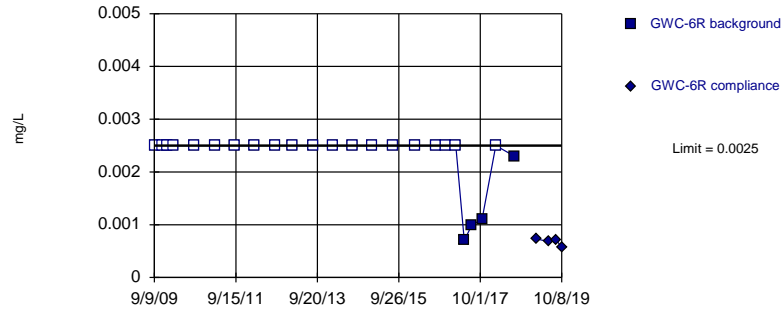


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 72.22% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Arsenic Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

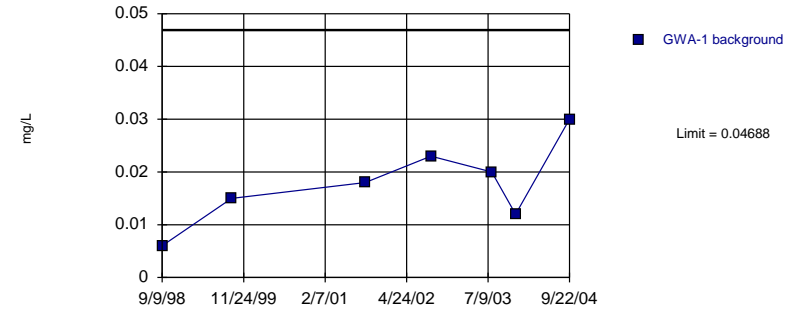
Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Arsenic Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

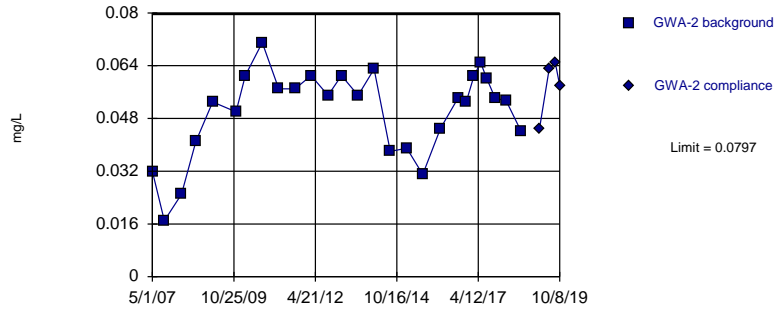
Prediction Limit
Intrawell Parametric, GWA-1 (bg)



Background Data Summary: Mean=0.01771, Std. Dev.=0.007761, n=7. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9982, critical = 0.73. Kappa = 3.758 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486. Assumes 1 future value.

Constituent: Barium Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

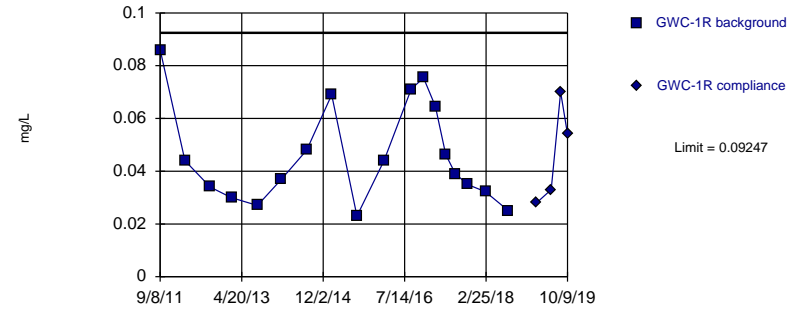
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.05023, Std. Dev.=0.01305, n=27. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.924, critical = 0.894. Kappa = 2.257 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Barium Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

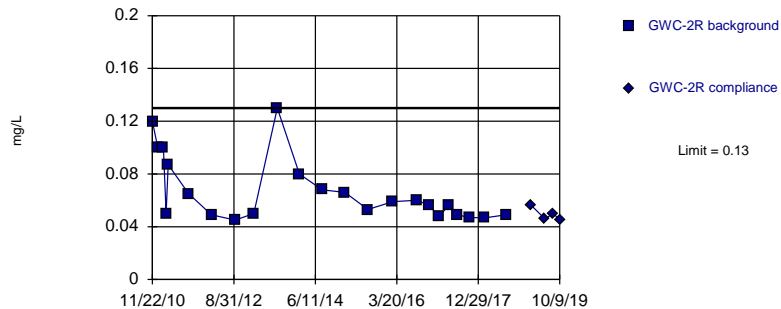
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=0.04614, Std. Dev.=0.01903, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9026, critical = 0.858. Kappa = 2.435 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Barium Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

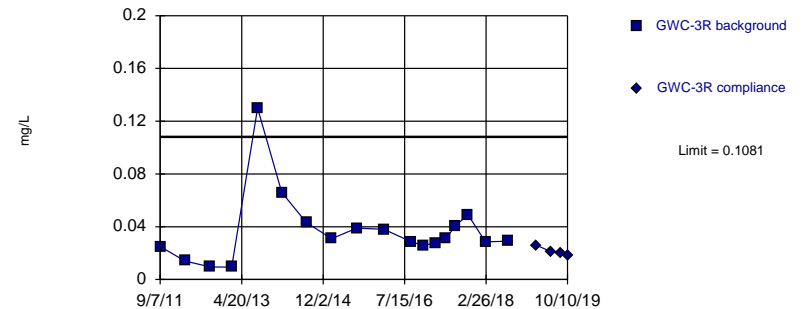
Within Limit Prediction Limit
Intrawell Non-parametric



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 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

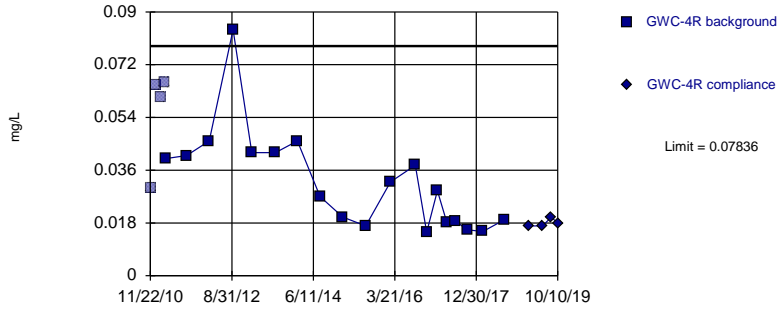
Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=0.1832, Std. Dev.=0.05976, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8697, critical = 0.858. Kappa = 2.435 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Barium Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

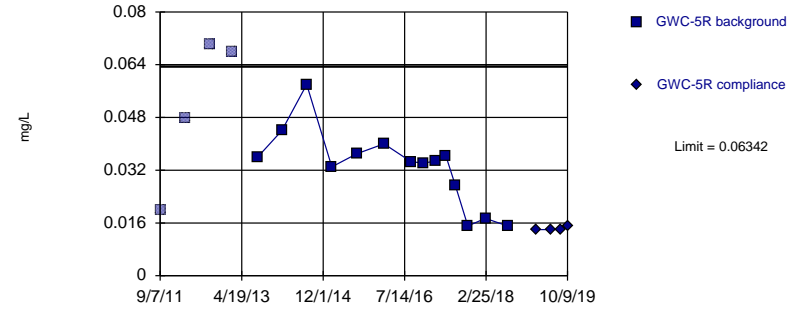
Within Limit Prediction Limit Intrawell Parametric



Background Data Summary (based on square root transformation): Mean=0.1732, Std. Dev.=0.04443, n=19. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8913, critical = 0.863. Kappa = 2.403 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Barium Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

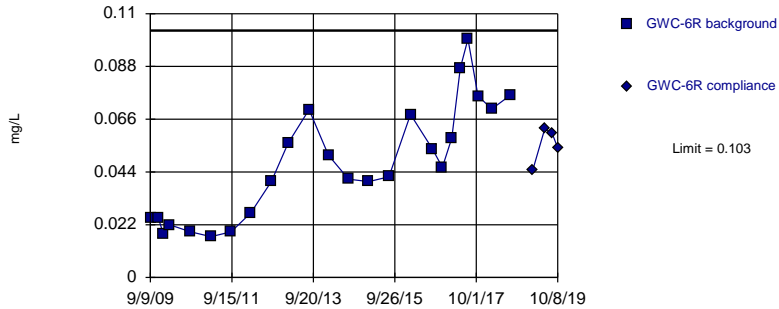
Within Limit Prediction Limit Intrawell Parametric



Background Data Summary: Mean=0.03304, Std. Dev.=0.01162, n=14. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.911, critical = 0.825. Kappa = 2.613 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

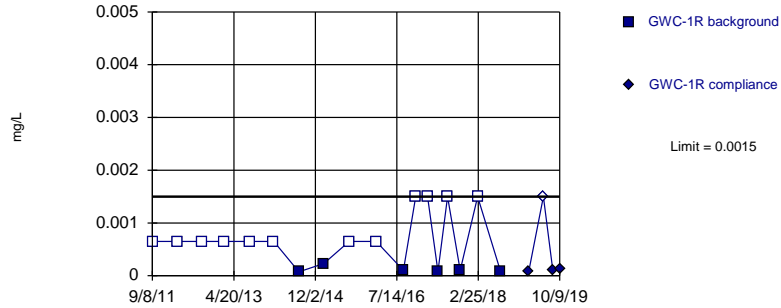
Constituent: Barium Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit Prediction Limit Intrawell Parametric



Within Limit

Prediction Limit
Intrawell Non-parametric

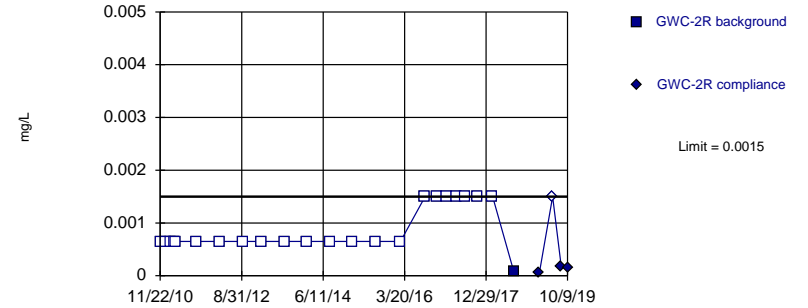


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Beryllium Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

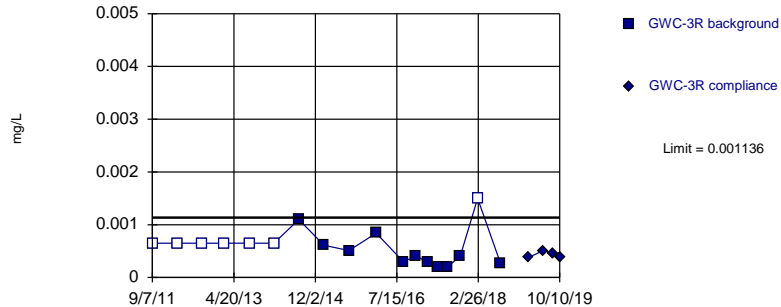


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Beryllium Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

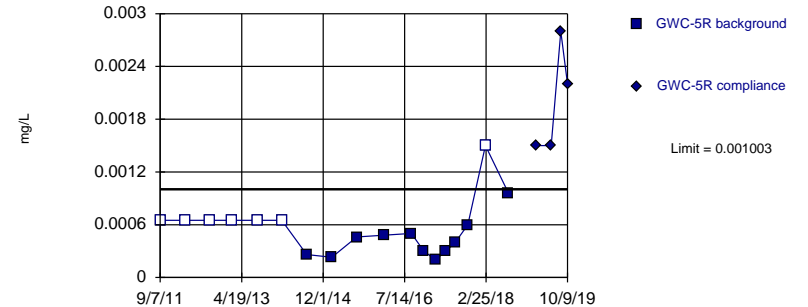


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.0004433, Std. Dev.=0.0002845, n=18, 38.89% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8679, critical = 0.858. Kappa = 2.435 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Beryllium Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric



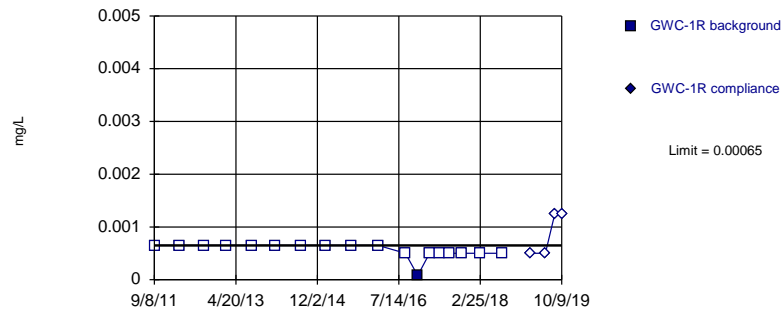
Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.01992, Std. Dev.=0.004826, n=18, 38.89% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.914, critical = 0.858. Kappa = 2.435 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Beryllium Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.25 Sanitas software licensed to ACC, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit Intrawell Non-parametric



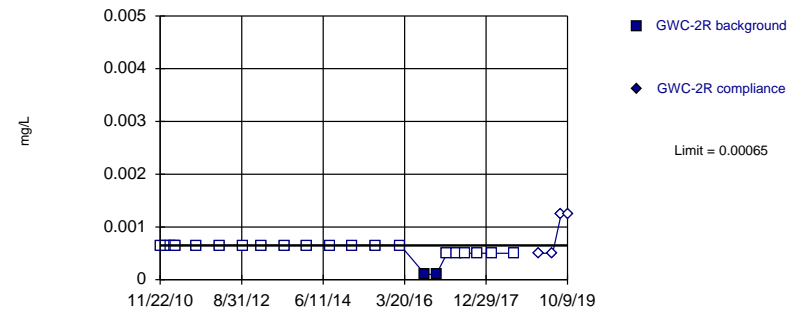
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 94.44% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Cadmium Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.25 Sanitas software licensed to ACC, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit Intrawell Non-parametric



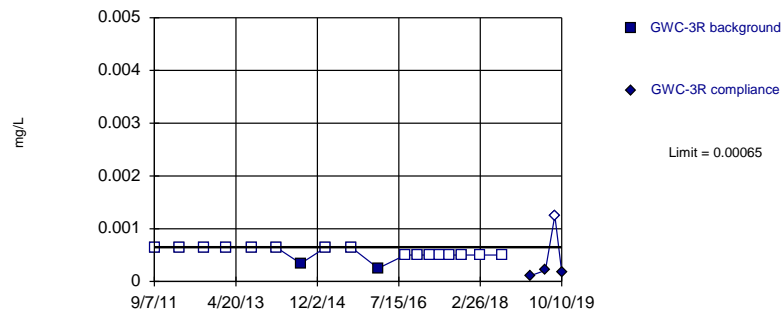
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Cadmium Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.25 Sanitas software licensed to ACC, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit Intrawell Non-parametric



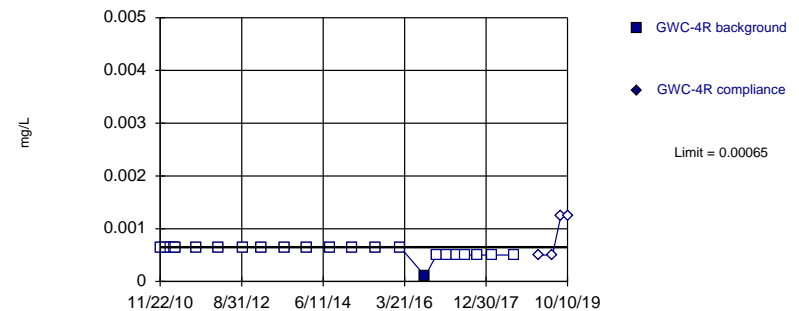
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Cadmium Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sanitas™ v.9.6.25 Sanitas software licensed to ACC, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit Intrawell Non-parametric

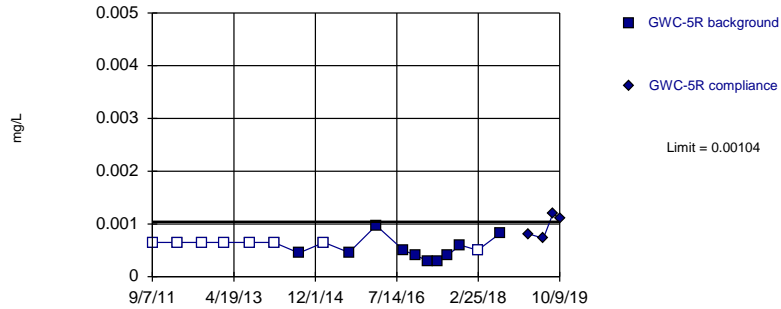


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Cadmium Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

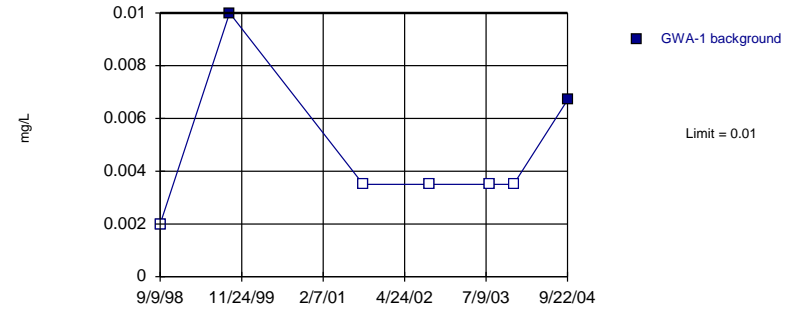


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.000511, Std. Dev.=0.0002174, n=18, 44.44% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9265, critical = 0.858. Kappa = 2.435 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Cadmium Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric, GWA-1 (bg)

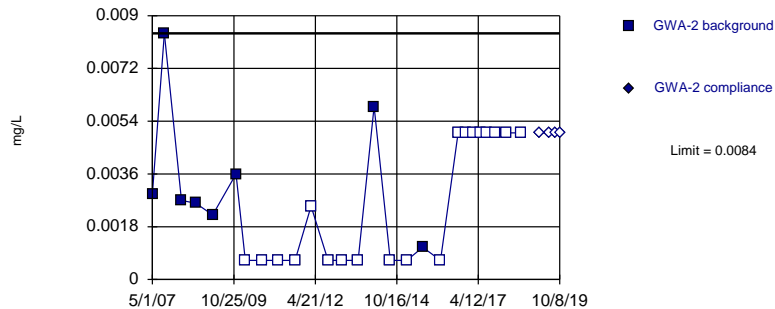


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 7 background values. 71.43% NDs. Well-constituent pair annual alpha = 0.05455. Individual comparison alpha = 0.02765 (1 of 2). Assumes 1 future value.

Constituent: Chromium Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

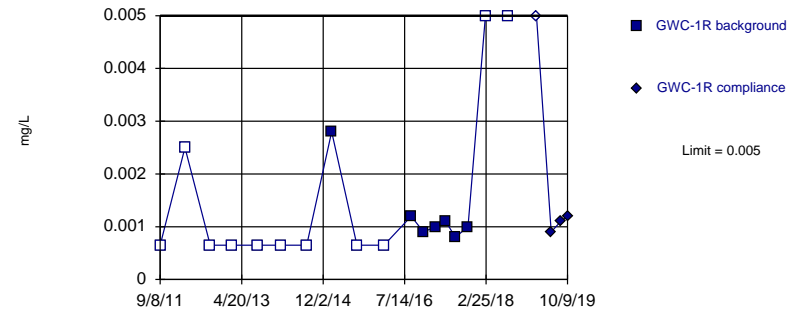


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 70.37% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Chromium Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

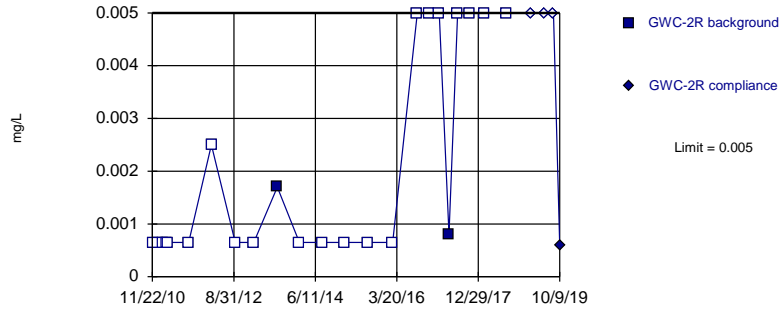


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 61.11% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Chromium Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

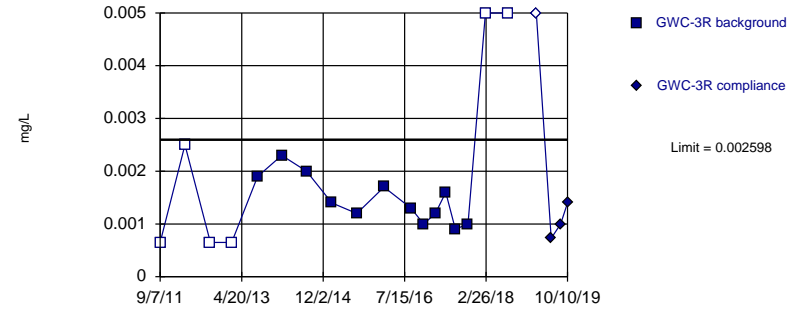


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Chromium Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

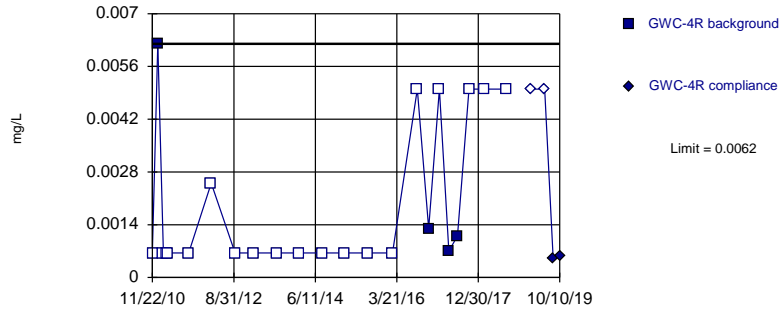


Background Data Summary (based on cube root transformation) (after Kaplan-Meier Adjustment): Mean=0.1093, Std. Dev.=0.01157, n=18, 33.33% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8884, critical = 0.858. Kappa = 2.435 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Chromium Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

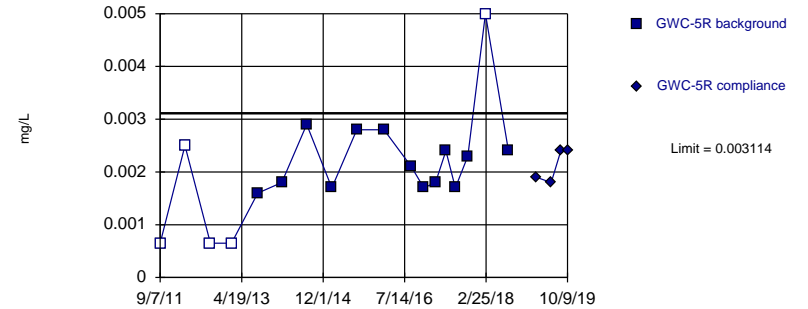


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 82.61% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Chromium Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

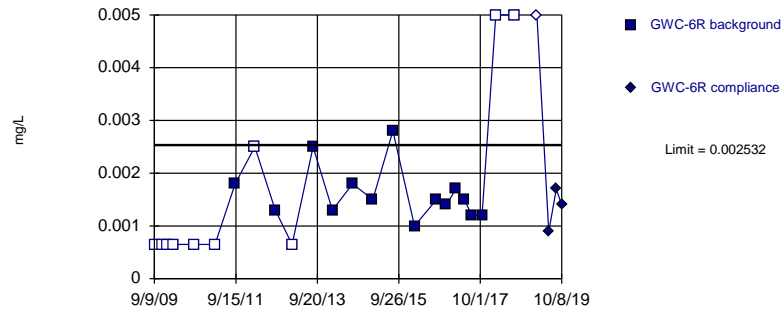


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.001808, Std. Dev.=0.0005362, n=18, 27.78% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8848, critical = 0.858. Kappa = 2.435 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Chromium Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

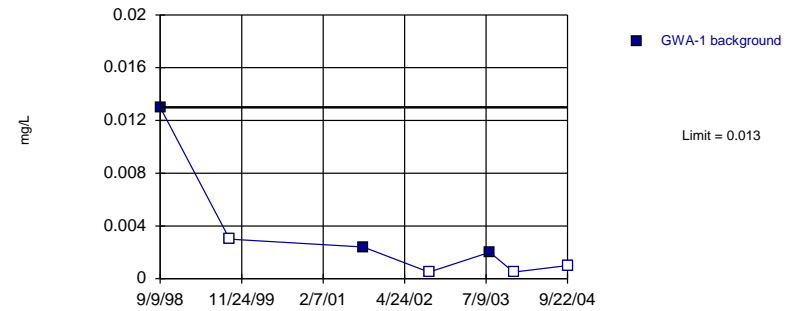
Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-6.65, Std. Dev.=0.2919, n=24, 41.67% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9017, critical = 0.884. Kappa = 2.299 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Chromium Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Prediction Limit
Intrawell Non-parametric, GWA-1 (bg)

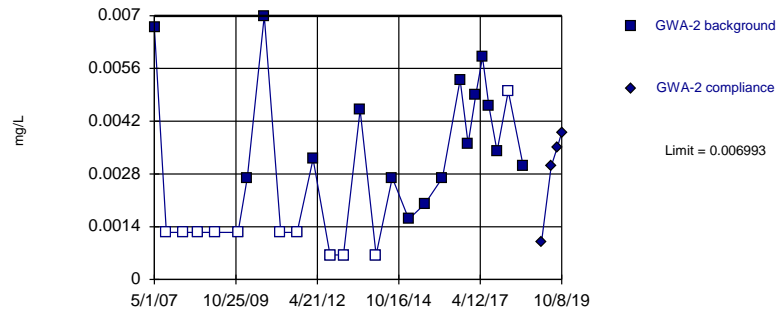


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 7 background values. 57.14% NDs. Well-constituent pair annual alpha = 0.05455. Individual comparison alpha = 0.02765 (1 of 2). Assumes 1 future value.

Constituent: Cobalt Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

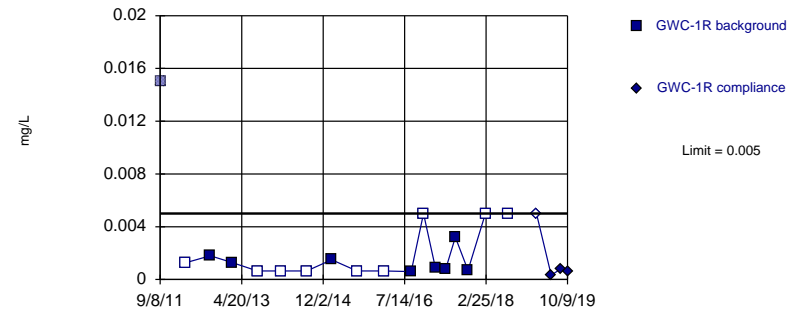


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.002915, Std. Dev.=0.001806, n=27, 40.74% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9019, critical = 0.894. Kappa = 2.257 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Cobalt Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

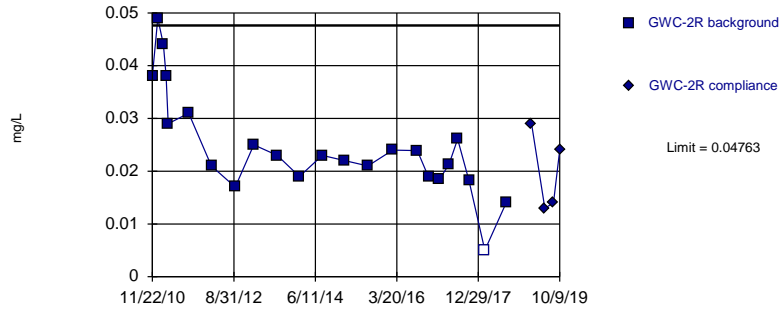


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 17 background values. 52.94% NDs. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Cobalt Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

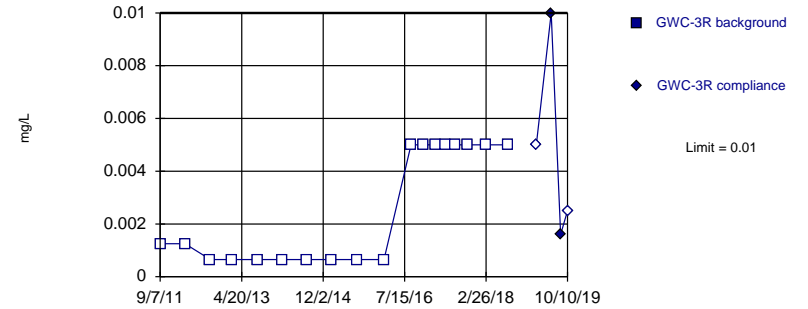


Background Data Summary: Mean=0.02477, Std. Dev.=0.009863, n=23, 4.348% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9174, critical = 0.881. Kappa = 2.317 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Cobalt Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

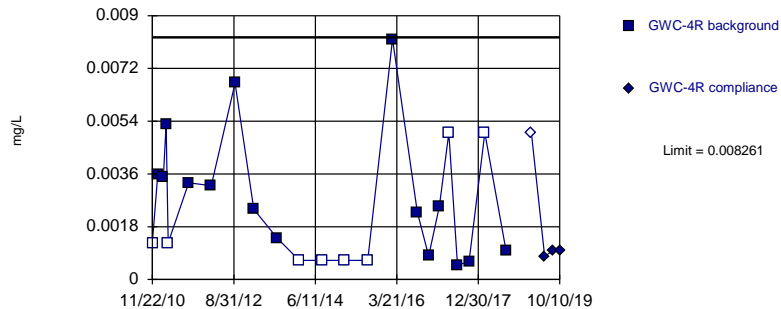


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Cobalt Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

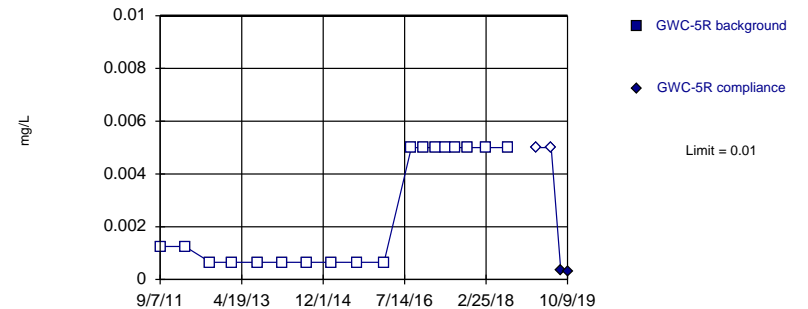


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.04474, Std. Dev.=0.01992, n=23, 34.78% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9142, critical = 0.881. Kappa = 2.317 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Cobalt Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

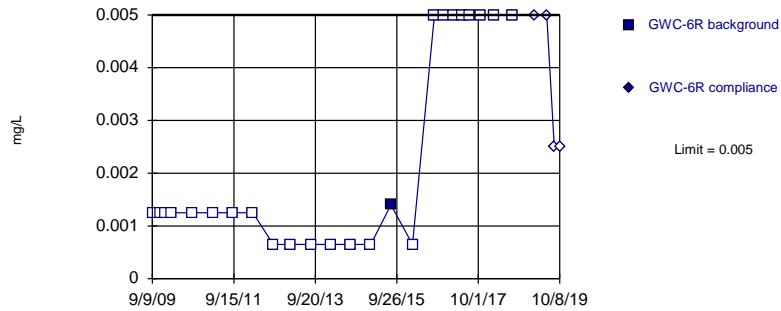


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Cobalt Analysis Run 2/12/2020 7:20 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

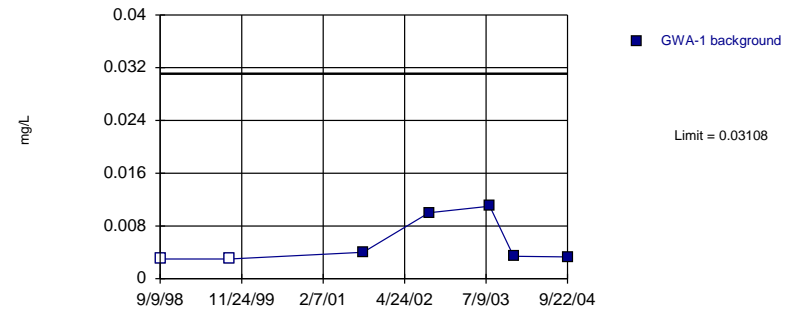


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Cobalt Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric, GWA-1 (bg)

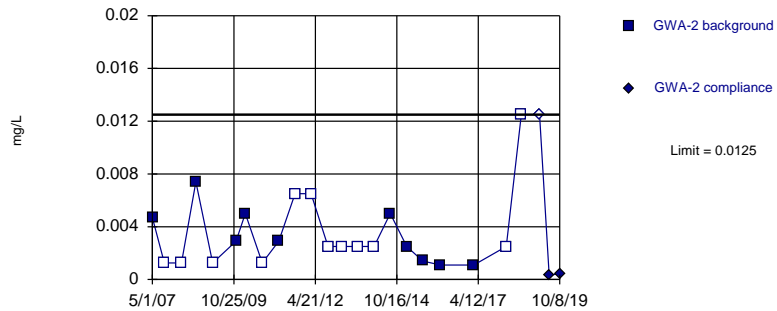


Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=-5.331, Std. Dev.=0.4948, n=7, 28.57% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7407, critical = 0.73. Kappa = 3.758 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486. Assumes 1 future value.

Constituent: Copper Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

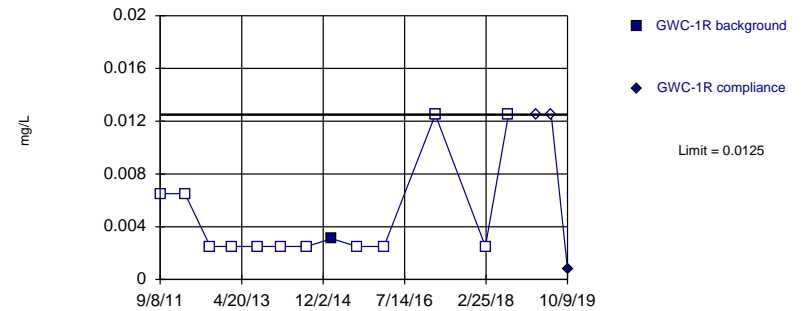


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 22 background values. 54.55% NDs. Well-constituent pair annual alpha = 0.007401. Individual comparison alpha = 0.003707 (1 of 2).

Constituent: Copper Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

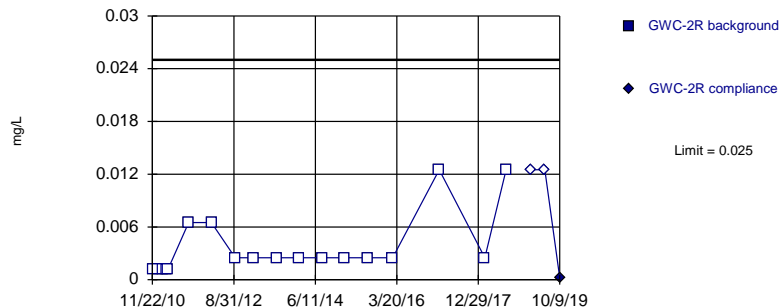


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 92.31% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Copper Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
 Intrawell Non-parametric

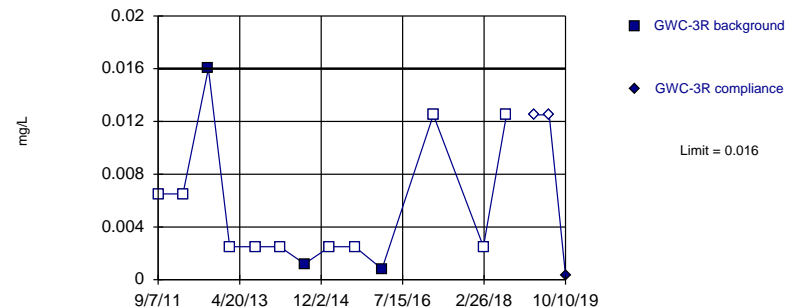


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Copper Analysis Run 2/12/2020 7:21 PM View: Time Series
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

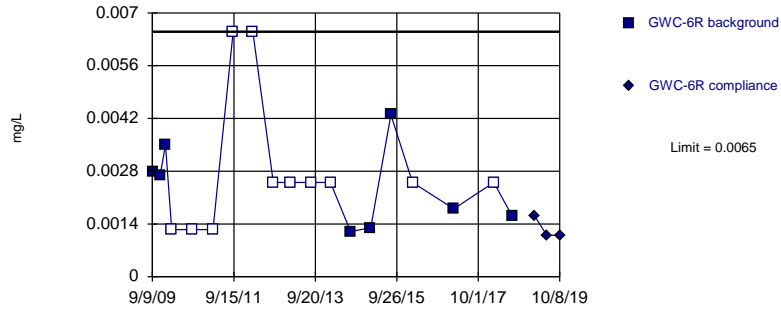
Within Limit

Prediction Limit
 Intrawell Non-parametric



Within Limit

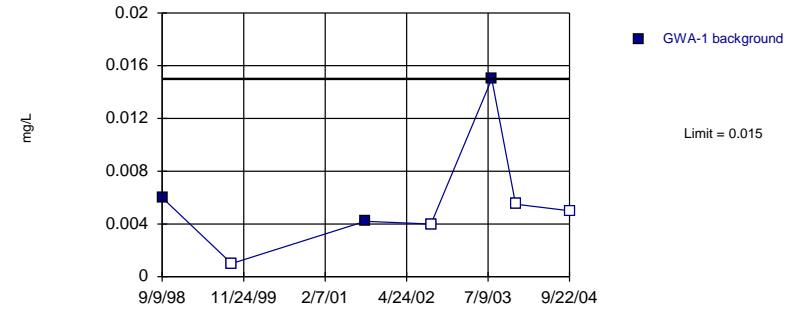
Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 57.89% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Copper Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Prediction Limit
Intrawell Non-parametric, GWA-1 (bg)

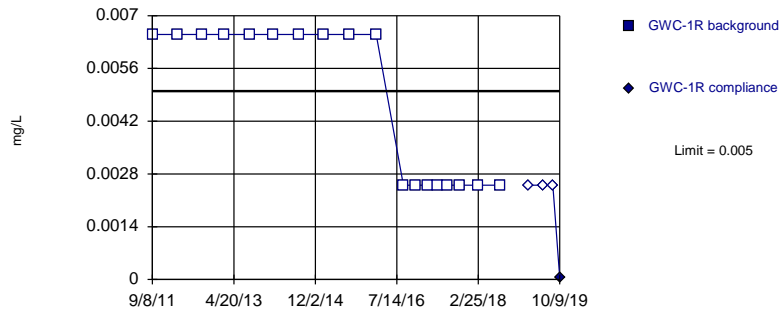


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 7 background values. 57.14% NDs. Well-constituent pair annual alpha = 0.05455. Individual comparison alpha = 0.02765 (1 of 2). Assumes 1 future value.

Constituent: Lead Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

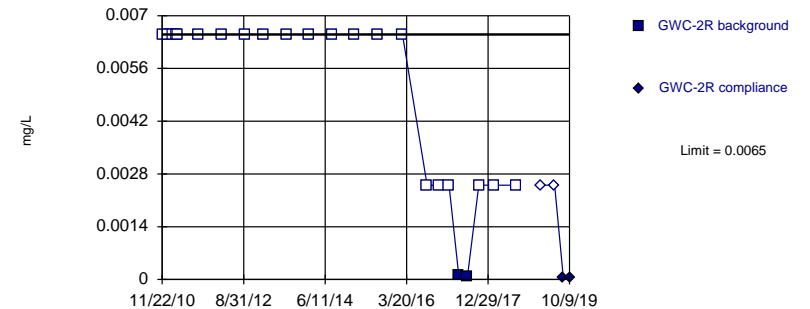


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Lead Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

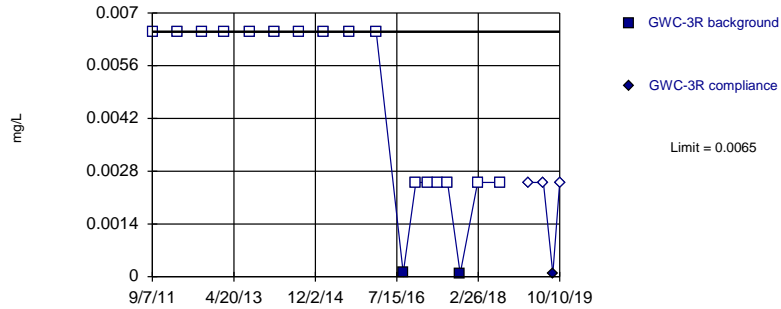


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 91.3% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Lead Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

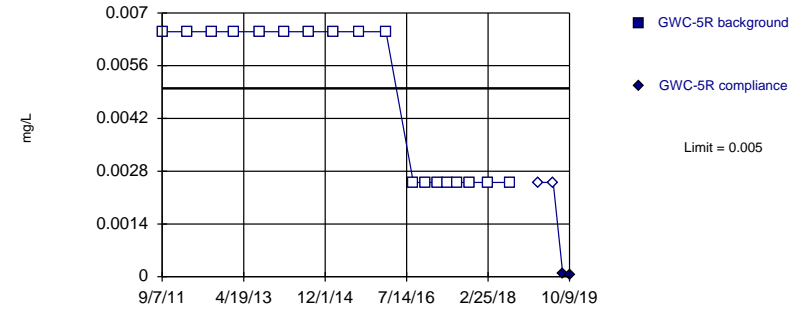


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 88.89% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Lead Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

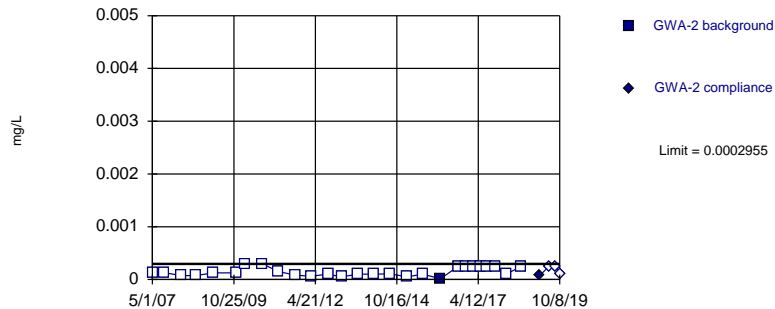


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Lead Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

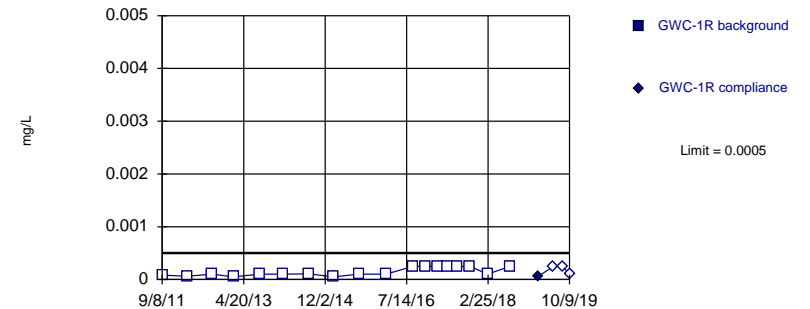


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 27 background values. 96.3% NDs. Well-constituent pair annual alpha = 0.004998. Individual comparison alpha = 0.002502 (1 of 2).

Constituent: Mercury Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

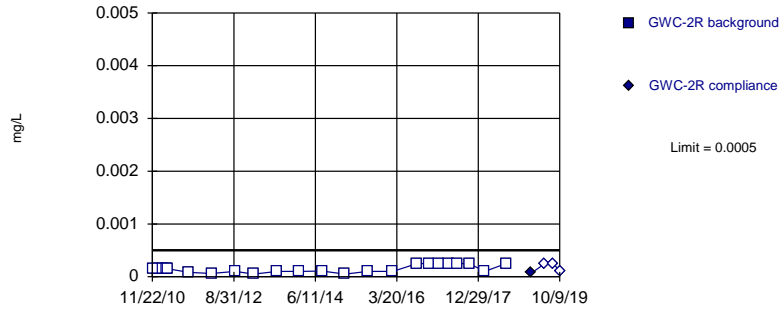


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Mercury Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

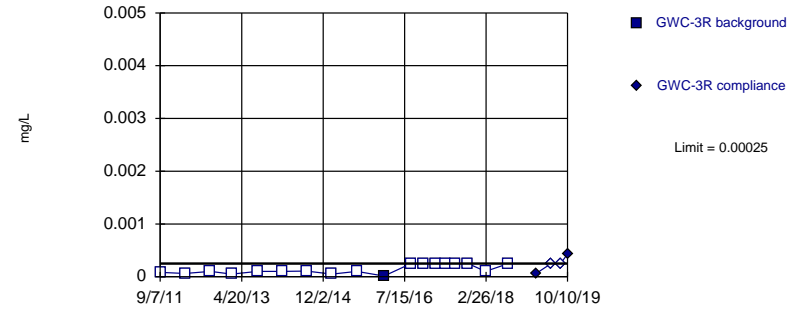


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 23) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Mercury Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

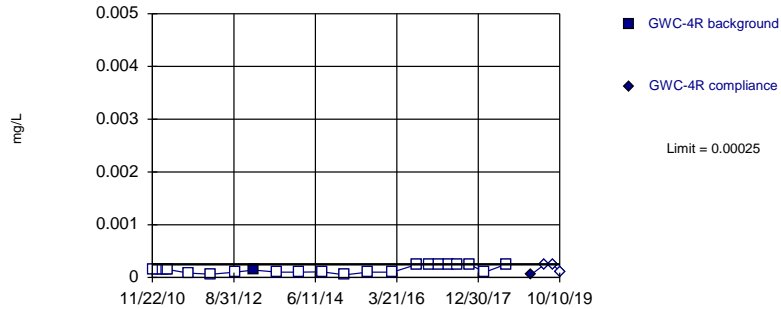


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 94.44% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Mercury Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

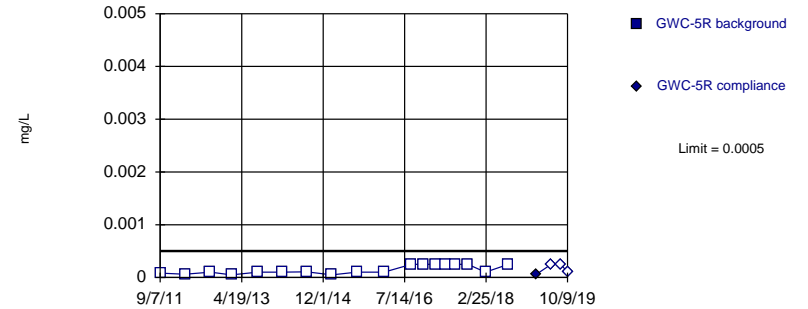


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 95.65% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Mercury Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

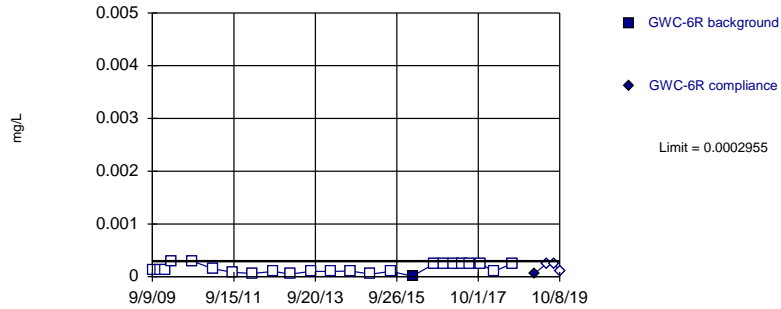


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 18) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Mercury Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

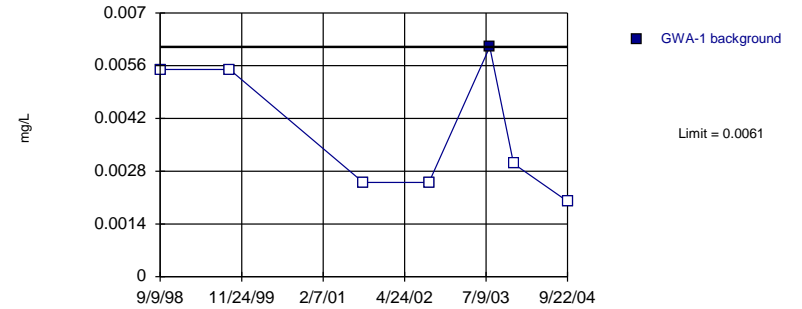
Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 95.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Mercury Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Prediction Limit
Intrawell Non-parametric, GWA-1 (bg)

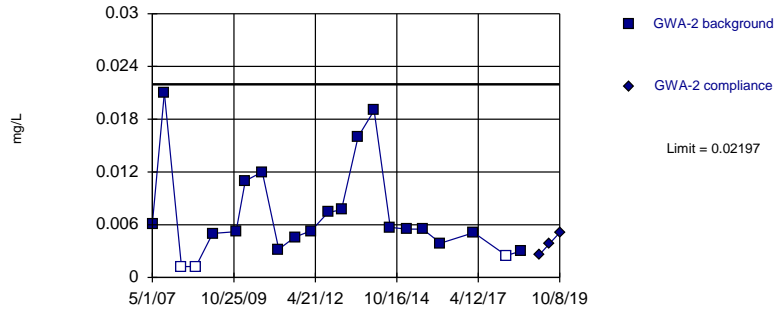


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 7 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.05455. Individual comparison alpha = 0.02765 (1 of 2). Assumes 1 future value.

Constituent: Nickel Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

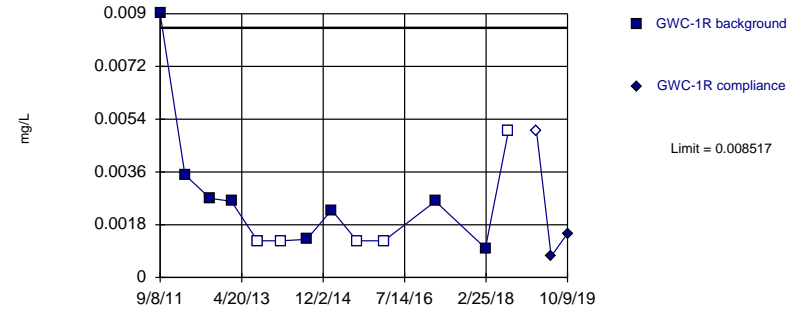


Background Data Summary (based on square root transformation): Mean=0.07949, Std. Dev.=0.02944, n=22, 13.64% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9177, critical = 0.878. Kappa = 2.335 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Nickel Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

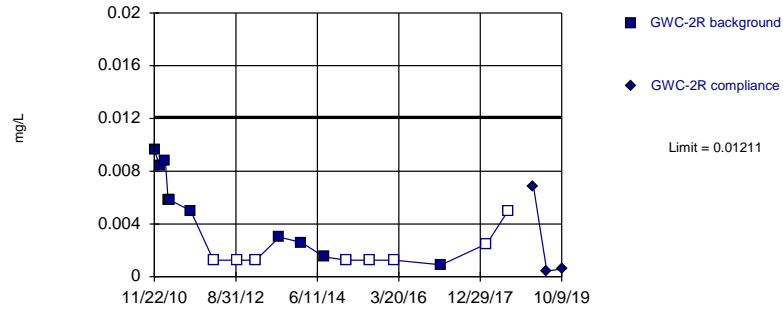


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.04711, Std. Dev.=0.01691, n=13, 38.46% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8236, critical = 0.814. Kappa = 2.671 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Nickel Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

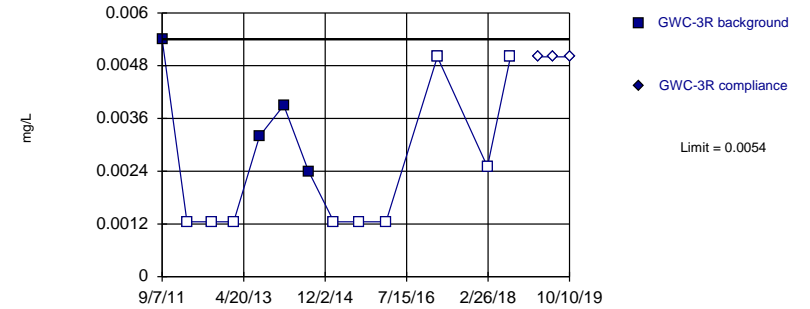


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.05234, Std. Dev.=0.0237, n=18, 44.44% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8584, critical = 0.858. Kappa = 2.435 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Nickel Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

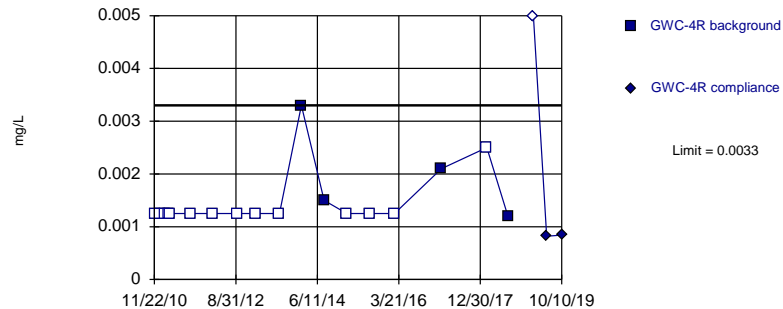


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 13 background values. 69.23% NDs. Well-constituent pair annual alpha = 0.01929. Individual comparison alpha = 0.009692 (1 of 2).

Constituent: Nickel Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

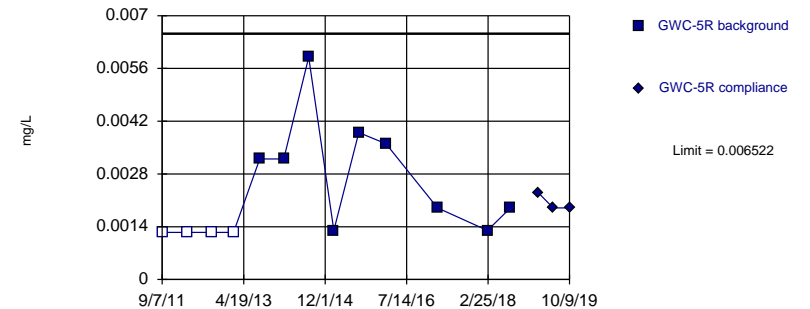


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 77.78% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Nickel Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

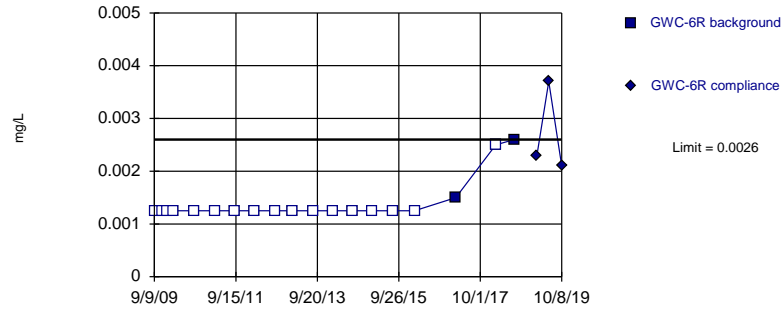


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.04594, Std. Dev.=0.01303, n=13, 30.77% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8265, critical = 0.814. Kappa = 2.671 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Nickel Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

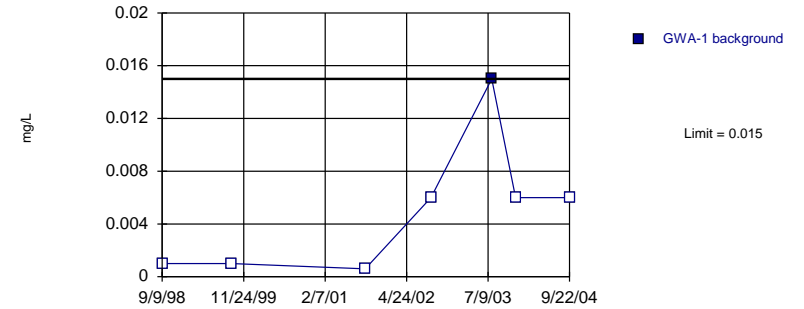
Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 89.47% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Nickel Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Prediction Limit
Intrawell Non-parametric, GWA-1 (bg)

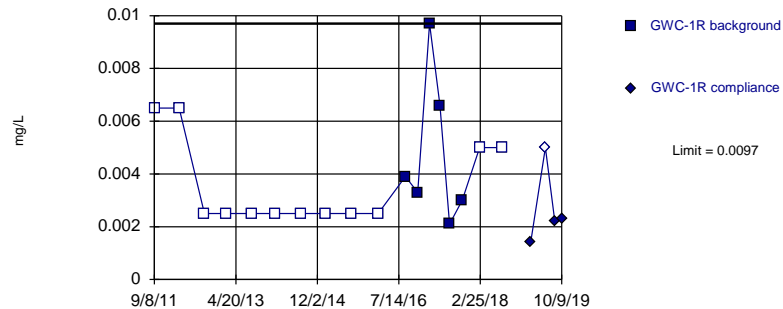


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 7 background values. 85.71% NDs. Well-constituent pair annual alpha = 0.05455. Individual comparison alpha = 0.02765 (1 of 2). Assumes 1 future value.

Constituent: Selenium Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

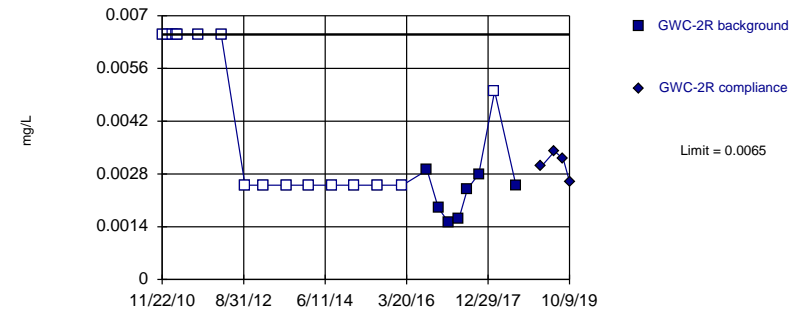


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 66.67% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Selenium Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

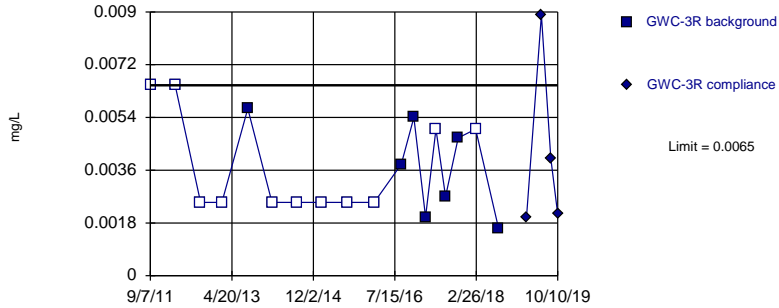


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 23 background values. 69.57% NDs. Well-constituent pair annual alpha = 0.006819. Individual comparison alpha = 0.003415 (1 of 2).

Constituent: Selenium Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

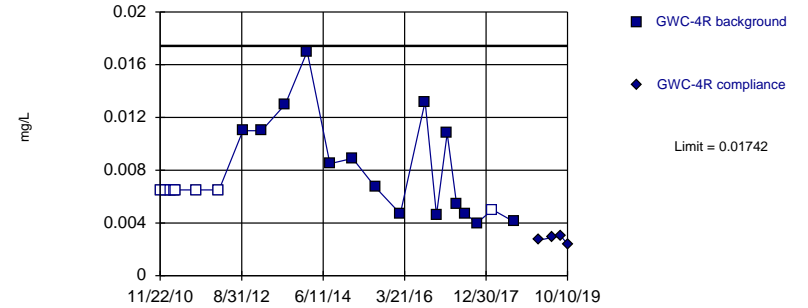


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 18 background values. 61.11% NDs. Well-constituent pair annual alpha = 0.01072. Individual comparison alpha = 0.005373 (1 of 2).

Constituent: Selenium Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

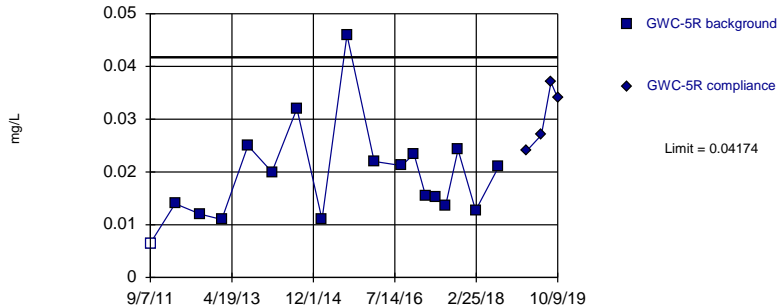


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.08534, Std. Dev.=0.02013, n=23, 34.78% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9032, critical = 0.881. Kappa = 2.317 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Selenium Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

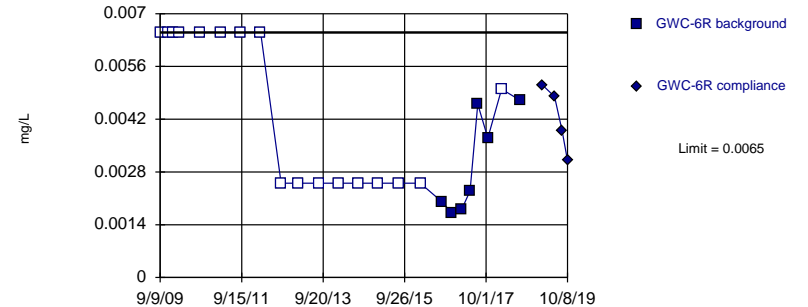


Background Data Summary: Mean=0.01923, Std. Dev.=0.009244, n=18, 5.556% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8845, critical = 0.858. Kappa = 2.435 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Selenium Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

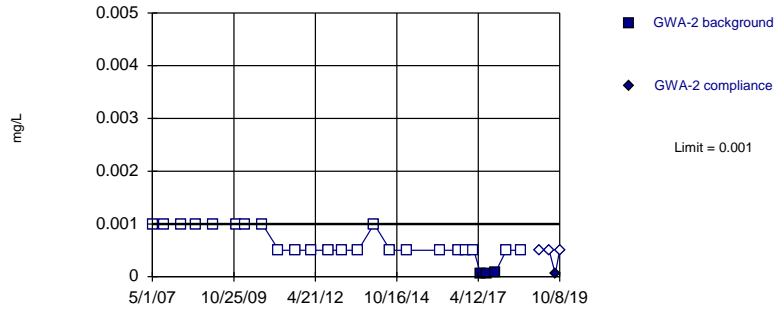


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 70.83% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Selenium Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

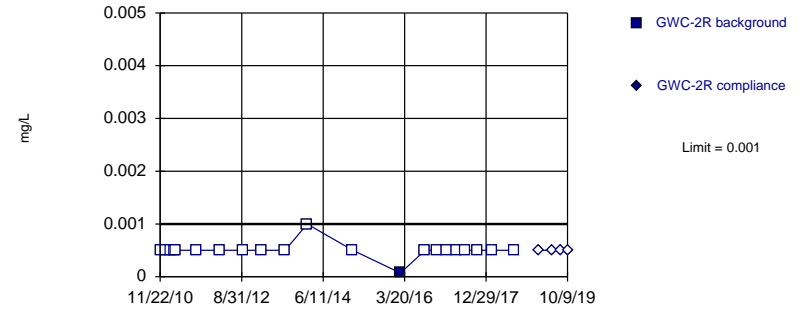


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 26 background values. 88.46% NDs. Well-constituent pair annual alpha = 0.005327. Individual comparison alpha = 0.002667 (1 of 2).

Constituent: Thallium Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

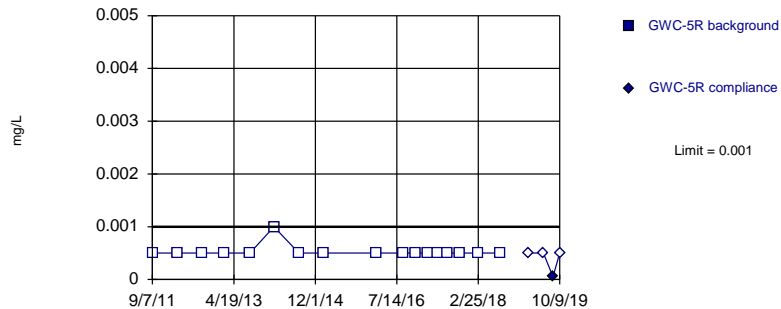


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 95.24% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Constituent: Thallium Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

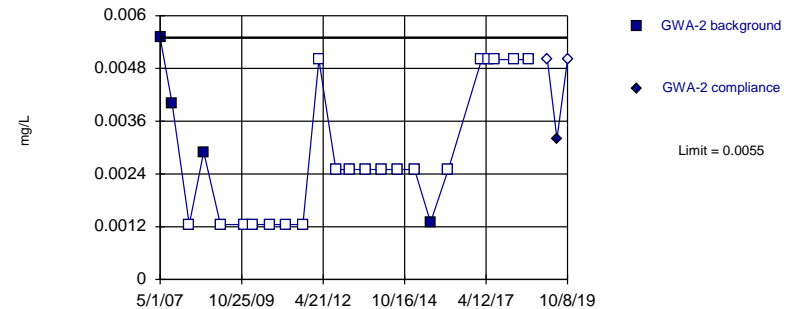


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. All background values (n = 17) were censored; limit is most recent reporting limit. Well-constituent pair annual alpha = 0.01179. Individual comparison alpha = 0.005914 (1 of 2).

Constituent: Thallium Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit Intrawell Non-parametric

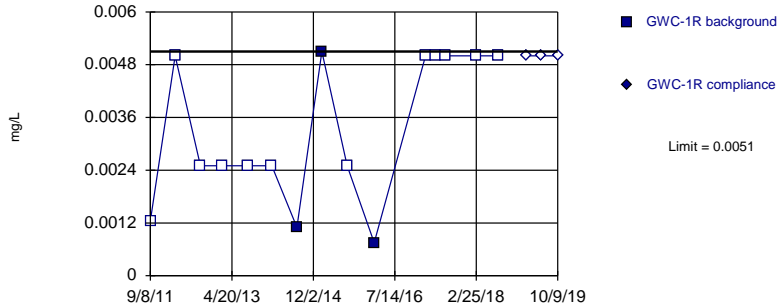


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 24 background values. 83.33% NDs. Well-constituent pair annual alpha = 0.006238. Individual comparison alpha = 0.003124 (1 of 2).

Constituent: Vanadium Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

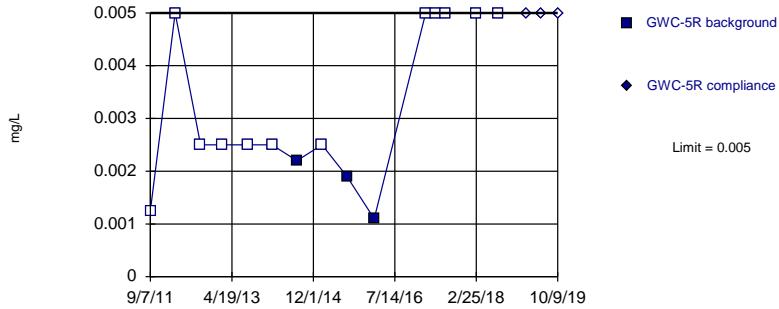
Within Limit

Prediction Limit Intrawell Non-parametric



Within Limit

Prediction Limit
Intrawell Non-parametric

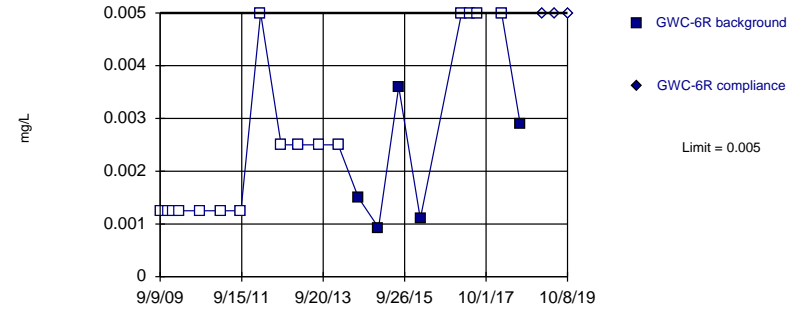


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 15 background values. 80% NDs. Well-constituent pair annual alpha = 0.01501. Individual comparison alpha = 0.007533 (1 of 2).

Constituent: Vanadium Analysis Run 2/12/2020 7:21 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

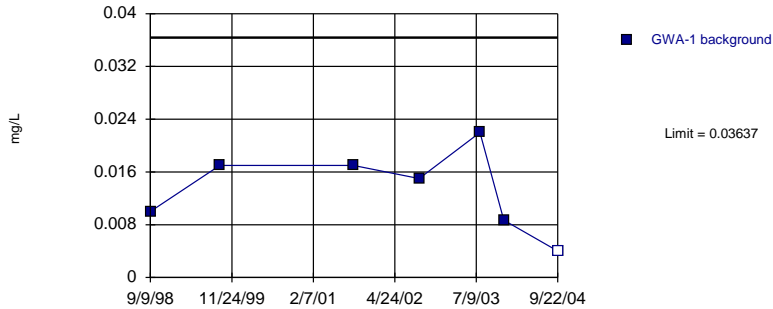
Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 21 background values. 76.19% NDs. Well-constituent pair annual alpha = 0.007982. Individual comparison alpha = 0.003999 (1 of 2).

Constituent: Vanadium Analysis Run 2/12/2020 7:22 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Prediction Limit
Intrawell Parametric, GWA-1 (bg)

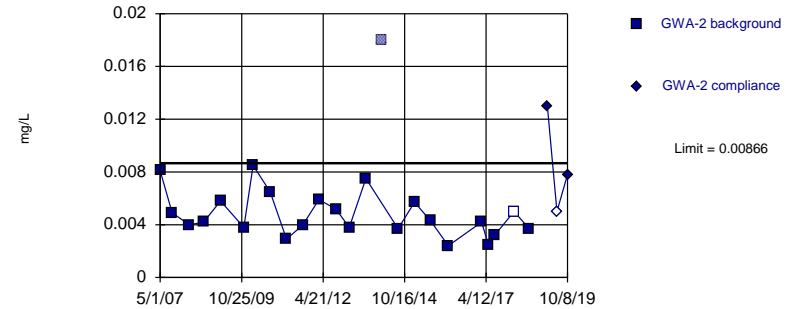


Background Data Summary: Mean=0.01339, Std. Dev.=0.006116, n=7, 14.29% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9648, critical = 0.73. Kappa = 3.758 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486. Assumes 1 future value.

Constituent: Zinc Analysis Run 2/12/2020 7:22 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

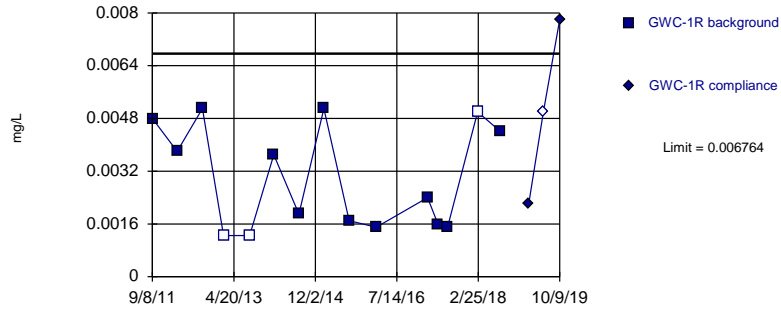


Background Data Summary: Mean=0.004774, Std. Dev.=0.001677, n=23, 4.348% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9295, critical = 0.881. Kappa = 2.317 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Zinc Analysis Run 2/12/2020 7:22 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

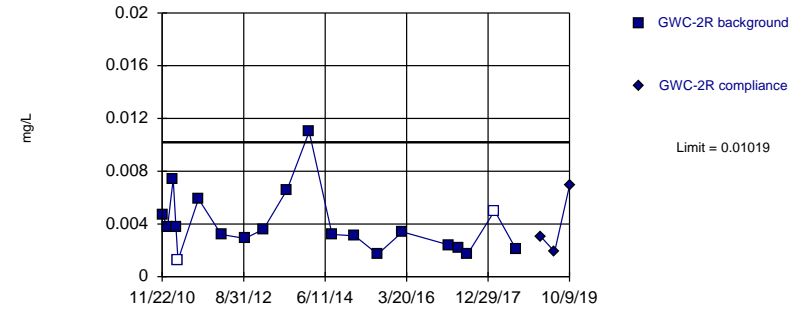


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.051, Std. Dev.=0.01223, n=15, 20% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8403, critical = 0.835. Kappa = 2.555 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Zinc Analysis Run 2/12/2020 7:22 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

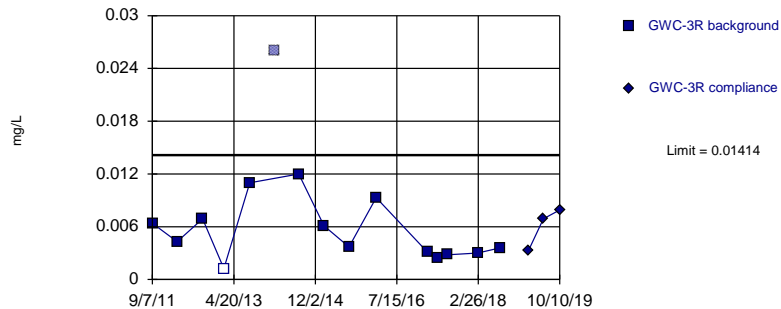


Background Data Summary (based on square root transformation): Mean=0.0606, Std. Dev.=0.01701, n=20, 10% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9433, critical = 0.868. Kappa = 2.372 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Zinc Analysis Run 2/12/2020 7:22 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

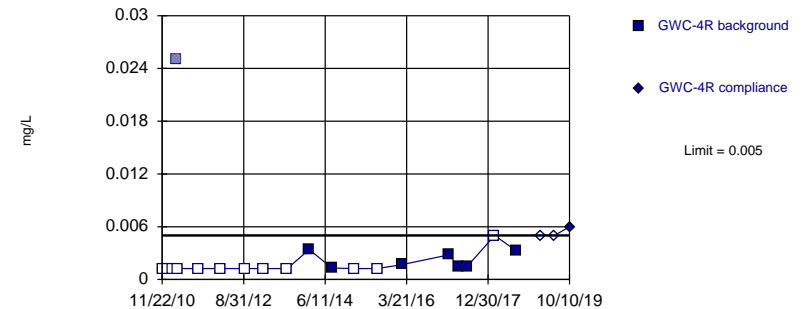


Background Data Summary: Mean=0.005425, Std. Dev.=0.003336, n=14, 7.143% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8941, critical = 0.825. Kappa = 2.613 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Zinc Analysis Run 2/12/2020 7:22 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

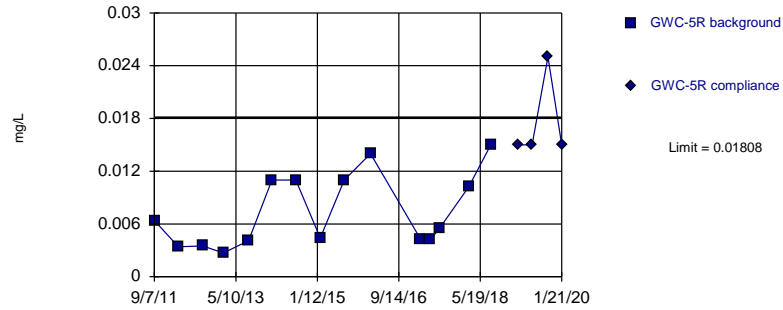


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 19 background values. 63.16% NDs. Well-constituent pair annual alpha = 0.009641. Individual comparison alpha = 0.004832 (1 of 2).

Constituent: Zinc Analysis Run 2/12/2020 7:22 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric



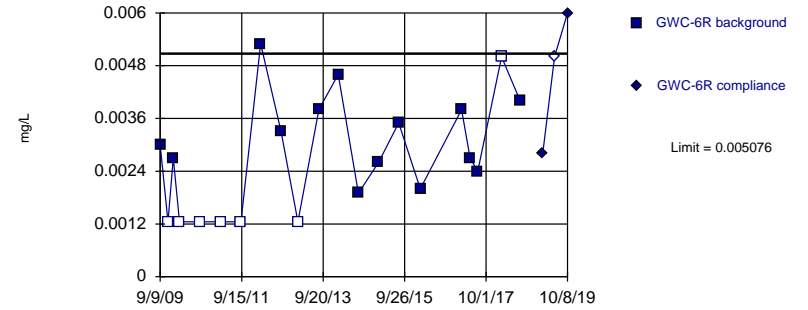
Background Data Summary: Mean=0.00738, Std. Dev.=0.004189, n=15. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8595, critical = 0.835. Kappa = 2.555 (c=16, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.0005486.

Constituent: Zinc Analysis Run 2/12/2020 7:22 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Parametric



Prediction Limit

Constituent: Antimony, Arsenic Analysis Run 2/12/2020 7:24 PM View: Time Series

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R	GWC-2R	GWC-2R	GWC-6R	GWC-6R	GWA-1
9/9/1998							<0.003
9/20/1999							<0.003
9/12/2001							<0.0003058
9/3/2002							<0.009
7/29/2003							<0.009
12/5/2003							<0.009
9/22/2004							<0.009
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				
1/4/2011			<0.005				
2/17/2011			<0.005				
3/10/2011					<0.005		
3/11/2011			<0.005				
3/28/2011			<0.005				
9/7/2011			<0.005				
9/8/2011	<0.005				<0.005		
3/5/2012	<0.005				<0.005		
3/6/2012			<0.005				
9/5/2012	<0.005				<0.005		
9/11/2012			<0.005				
2/5/2013	<0.005				<0.005		
2/6/2013			<0.005				
8/13/2013	<0.005		<0.005		<0.005		
2/4/2014	<0.005		<0.005		<0.005		
8/5/2014	<0.005		<0.005		<0.005		
2/2/2015	<0.005		<0.005				
2/3/2015					<0.005		
8/4/2015	<0.005 (D)		<0.005		<0.005		
2/16/2016	<0.005				<0.005		
2/17/2016			<0.005				
8/31/2016	<0.003		<0.003				
9/1/2016					<0.003		
11/28/2016			<0.003				
11/29/2016	<0.003				<0.003		
2/22/2017			<0.003				
2/23/2017	<0.003				<0.003		
5/9/2017	<0.003						
5/10/2017			<0.003		<0.003		
7/18/2017	<0.003		<0.003		<0.003		
10/17/2017	<0.003		<0.003				
10/18/2017					<0.003		
2/19/2018					<0.003		
2/20/2018			<0.003				
2/21/2018	<0.003						
8/6/2018					<0.003		
8/7/2018	<0.003						
8/8/2018			<0.003				
2/25/2019						<0.003	

Prediction Limit

Constituent: Antimony, Arsenic Analysis Run 2/12/2020 7:24 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R	GWC-2R	GWC-2R	GWC-6R	GWC-6R	GWA-1
2/26/2019		<0.003		<0.003			
6/12/2019				<0.003			
6/13/2019		<0.003				<0.003	
8/20/2019		<0.003		<0.003		<0.003	
10/8/2019						<0.003	
10/9/2019		<0.003		<0.003			

Prediction Limit

Constituent: Arsenic Analysis Run 2/12/2020 7:24 PM View: Time Series

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2	GWC-1R	GWC-1R	GWC-2R	GWC-2R	GWC-3R	GWC-3R
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			
1/4/2011					<0.005			
2/17/2011					<0.005			
3/10/2011	<0.005							
3/11/2011					<0.005			
3/28/2011					<0.005			
9/7/2011					<0.005		<0.005	
9/8/2011	<0.005		<0.005					
3/5/2012	<0.005		<0.005				<0.005	
3/6/2012					<0.005			
9/5/2012			<0.005				<0.005	
9/10/2012	<0.005							
9/11/2012					<0.005			
2/5/2013			<0.005					
2/6/2013	<0.005				<0.005		<0.005	
8/12/2013	<0.005							
8/13/2013			<0.005		<0.005		<0.005	
2/4/2014			<0.005		<0.005			
2/5/2014	<0.005						<0.005	
8/4/2014							<0.005	
8/5/2014	<0.005		<0.005		<0.005			
2/2/2015			<0.005		<0.005			
2/3/2015							<0.005	
2/4/2015	<0.005							
8/3/2015	<0.005						<0.005 (D)	
8/4/2015			<0.005 (D)		<0.005			
2/16/2016	<0.005		<0.005				<0.005	
2/17/2016					<0.005			
8/31/2016	<0.005		<0.005		<0.005		<0.005	
11/28/2016	<0.005				<0.005			
11/29/2016			<0.005					
11/30/2016							<0.005	
2/22/2017	<0.005				<0.005			
2/23/2017			<0.005				<0.005	
5/8/2017	<0.005							
5/9/2017			0.0005 (J)				<0.005	
5/10/2017					<0.005			
7/17/2017	<0.005							
7/18/2017			<0.005		<0.005		<0.005	
10/16/2017	<0.005							
10/17/2017			0.0009 (J)		<0.005			
10/18/2017							<0.005	
2/19/2018	<0.005							
2/20/2018					<0.005			

Prediction Limit

Constituent: Arsenic, Barium Analysis Run 2/12/2020 7:24 PM View: Time Series

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R	GWC-5R	GWC-5R	GWC-6R	GWC-6R	GWA-1
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
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						
1/4/2011	<0.005						
2/17/2011	<0.005						
3/10/2011					<0.005		
3/11/2011	<0.005						
3/28/2011	<0.005						
9/7/2011	<0.005		<0.005				
9/8/2011					<0.005		
3/4/2012	<0.005						
3/5/2012			<0.005		<0.005		
9/5/2012			<0.005		<0.005		
9/10/2012	<0.005						
2/5/2013			<0.005		<0.005		
2/6/2013	<0.005						
8/13/2013					<0.005		
8/14/2013	<0.005		<0.005				
2/4/2014	<0.005				<0.005		
2/5/2014			<0.005				
8/4/2014	<0.005		<0.005				
8/5/2014					<0.005		
2/2/2015	<0.005						
2/3/2015			<0.005		<0.005		
8/3/2015	<0.005 (D)		<0.005 (D)				
8/4/2015					<0.005		
2/16/2016	<0.005		<0.005		<0.005		
9/1/2016	<0.005		<0.005		<0.005		
11/29/2016					<0.005		
11/30/2016	<0.005						
12/1/2016			<0.005				
2/23/2017					<0.005		
2/24/2017	<0.005		<0.005				
5/10/2017	<0.005		0.0011 (J)		0.0007 (J)		
7/17/2017			0.0013 (J)				
7/18/2017	<0.005				0.001 (J)		
10/16/2017			0.0011 (J)				
10/17/2017	<0.005						
10/18/2017					0.0011 (J)		
2/19/2018					<0.005		
2/20/2018	<0.005						
2/21/2018			0.00091 (J)				

Prediction Limit

Constituent: Arsenic, Barium Analysis Run 2/12/2020 7:24 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R	GWC-5R	GWC-5R	GWC-6R	GWC-6R	GWA-1
8/6/2018					0.0023 (J)		
8/7/2018			0.0021 (J)				
8/8/2018	<0.005						
2/25/2019						0.00073 (J)	
2/26/2019		<0.005		0.00069 (J)			
6/12/2019		0.00037 (J)					
6/13/2019				0.0012 (J)		0.00068 (J)	
8/19/2019		0.00059 (J)					
8/20/2019						0.00072 (J)	
8/21/2019				0.00094 (J)			
10/8/2019						0.00056 (J)	
10/9/2019				0.0012 (J)			
10/10/2019		<0.005					

Prediction Limit

Constituent: Barium Analysis Run 2/12/2020 7:24 PM View: Time Series

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2	GWC-1R	GWC-1R	GWC-2R	GWC-2R	GWC-3R	GWC-3R
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			
1/4/2011					0.1			
2/17/2011					0.1			
3/10/2011	0.057							
3/11/2011					0.05			
3/28/2011					0.087			
9/7/2011					0.065		0.025	
9/8/2011	0.057		0.086					
3/5/2012	0.061		0.044				0.014	
3/6/2012					0.049			
9/5/2012			0.034				0.0095	
9/10/2012	0.055							
9/11/2012					0.045			
2/5/2013			0.03					
2/6/2013	0.061				0.05		0.0094	
8/12/2013	0.055							
8/13/2013			0.027		0.13		0.13	
2/4/2014			0.037		0.08			
2/5/2014	0.063						0.066	
8/4/2014							0.043	
8/5/2014	0.038		0.048		0.068			
2/2/2015			0.069		0.066			
2/3/2015							0.031	
2/4/2015	0.039							
8/3/2015	0.031						0.039 (D)	
8/4/2015			0.023 (D)		0.053			
2/16/2016	0.045		0.044				0.038	
2/17/2016					0.059			
8/31/2016	0.0542		0.0711		0.0601		0.0286	
11/28/2016	0.0529				0.0562			
11/29/2016			0.0754					
11/30/2016							0.0258	
2/22/2017	0.0607				0.0481			
2/23/2017			0.0646				0.0278	
5/8/2017	0.065							
5/9/2017			0.0463				0.0308	
5/10/2017					0.0563			
7/17/2017	0.06							
7/18/2017			0.039		0.049		0.0407	
10/16/2017	0.0542							
10/17/2017			0.0349		0.047			
10/18/2017							0.049	
2/19/2018	0.0533							
2/20/2018					0.0467			

Prediction Limit

Constituent: Barium, Beryllium Analysis Run 2/12/2020 7:24 PM View: Time Series

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R	GWC-5R	GWC-5R	GWC-6R	GWC-6R	GWA-1
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
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		
3/28/2011	0.04						
9/7/2011	0.041						
9/8/2011					0.019		
3/4/2012	0.046						
3/5/2012					0.027		
9/5/2012					0.04		
9/10/2012	0.084						
2/5/2013					0.056		
2/6/2013	0.042						
8/13/2013					0.07		
8/14/2013	0.042		0.036				
2/4/2014	0.046				0.051		
2/5/2014			0.044				
8/4/2014	0.027		0.058				
8/5/2014					0.041		
2/2/2015	0.02						
2/3/2015			0.033		0.04		
8/3/2015	0.017 (D)		0.037 (D)				
8/4/2015					0.042		
2/16/2016	0.032		0.04		0.068		
9/1/2016	0.0377		0.0345		0.0536		
11/29/2016					0.0459		
11/30/2016	0.0148						
12/1/2016			0.0342				
2/23/2017					0.0581		
2/24/2017	0.029		0.0347				
5/10/2017	0.0182		0.0363		0.0873		
7/17/2017			0.0274				
7/18/2017	0.0187				0.0994		
10/16/2017			0.0151				
10/17/2017	0.0157						
10/18/2017					0.0757		
2/19/2018					0.0703		
2/20/2018	0.0151						
2/21/2018			0.0174				
8/6/2018					0.076		
8/7/2018			0.015				
8/8/2018	0.019						
2/25/2019						0.045	

Prediction Limit

Constituent: Barium, Beryllium Analysis Run 2/12/2020 7:24 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R	GWC-5R	GWC-5R	GWC-6R	GWC-6R	GWA-1
2/26/2019		0.017		0.014			
6/12/2019		0.017					
6/13/2019				0.014		0.062	
8/19/2019		0.02					
8/20/2019						0.06	
8/21/2019				0.014			
10/8/2019						0.054	
10/9/2019				0.015			
10/10/2019		0.018					

Prediction Limit

Constituent: Beryllium Analysis Run 2/12/2020 7:24 PM View: Time Series

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R	GWC-2R	GWC-2R	GWC-3R	GWC-3R	GWC-5R	GWC-5R
11/22/2010			<0.0013					
1/4/2011			<0.0013					
2/17/2011			<0.0013					
3/11/2011			<0.0013					
3/28/2011			<0.0013					
9/7/2011			<0.0013		<0.0013		<0.0013	
9/8/2011	<0.0013							
3/5/2012	<0.0013				<0.0013		<0.0013	
3/6/2012			<0.0013					
9/5/2012	<0.0013				<0.0013		<0.0013	
9/11/2012			<0.0013					
2/5/2013	<0.0013						<0.0013	
2/6/2013			<0.0013		<0.0013			
8/13/2013	<0.0013		<0.0013		<0.0013			
8/14/2013							<0.0013	
2/4/2014	<0.0013		<0.0013					
2/5/2014					<0.0013		<0.0013	
8/4/2014					0.0011 (J)		0.00026 (J)	
8/5/2014	7.5E-05 (J)		<0.0013					
2/2/2015	0.00023 (J)		<0.0013					
2/3/2015					0.00061 (J)		0.00023 (J)	
8/3/2015					0.00051 (JD)		0.00046 (JD)	
8/4/2015	<0.0013 (D)		<0.0013					
2/16/2016	<0.0013				0.00084 (J)		0.00048 (J)	
2/17/2016			<0.0013					
8/31/2016	0.0001 (J)		<0.003		0.0003 (J)			
9/1/2016							0.0005 (J)	
11/28/2016			<0.003					
11/29/2016	<0.003							
11/30/2016					0.0004 (J)			
12/1/2016							0.0003 (J)	
2/22/2017			<0.003					
2/23/2017	<0.003				0.0003 (J)			
2/24/2017							0.0002 (J)	
5/9/2017	8E-05 (J)				0.0002 (J)			
5/10/2017			<0.003				0.0003 (J)	
7/17/2017							0.0004 (J)	
7/18/2017	<0.003		<0.003		0.0002 (J)			
10/16/2017							0.0006 (J)	
10/17/2017	0.0001 (J)		<0.003					
10/18/2017					0.0004 (J)			
2/20/2018			<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)					
2/26/2019		7.5E-05 (J)		5.3E-05 (J)		0.00038 (J)		0.0015 (J)
6/12/2019				<0.003				
6/13/2019		<0.003				0.00051 (J)		0.0015 (J)
8/20/2019		0.0001 (J)		0.00017 (J)				
8/21/2019						0.00046 (J)		0.0028 (J)
10/9/2019		0.00013 (J)		0.00014 (J)				0.0022 (J)
10/10/2019						0.00039 (J)		

Prediction Limit

Constituent: Cadmium Analysis Run 2/12/2020 7:24 PM View: Time Series

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R	GWC-2R	GWC-2R	GWC-3R	GWC-3R	GWC-4R	GWC-4R
11/22/2010			<0.0013				<0.0013	
1/4/2011			<0.0013				<0.0013	
2/17/2011			<0.0013				<0.0013	
3/11/2011			<0.0013				<0.0013	
3/28/2011			<0.0013				<0.0013	
9/7/2011			<0.0013		<0.0013		<0.0013	
9/8/2011	<0.0013							
3/4/2012							<0.0013	
3/5/2012	<0.0013				<0.0013			
3/6/2012			<0.0013					
9/5/2012	<0.0013				<0.0013			
9/10/2012							<0.0013	
9/11/2012			<0.0013					
2/5/2013	<0.0013							
2/6/2013			<0.0013		<0.0013		<0.0013	
8/13/2013	<0.0013		<0.0013		<0.0013			
8/14/2013							<0.0013	
2/4/2014	<0.0013		<0.0013				<0.0013	
2/5/2014					<0.0013			
8/4/2014					0.00034 (J)		<0.0013	
8/5/2014	<0.0013		<0.0013					
2/2/2015	<0.0013		<0.0013				<0.0013	
2/3/2015					<0.0013			
8/3/2015					<0.0013 (D)		<0.0013 (D)	
8/4/2015	<0.0013 (D)		<0.0013					
2/16/2016	<0.0013				0.00025 (J)		<0.0013	
2/17/2016			<0.0013					
8/31/2016	<0.001		0.0001 (J)		<0.001			
9/1/2016							0.0001 (J)	
11/28/2016			0.0001 (J)					
11/29/2016	8E-05 (J)							
11/30/2016					<0.001		<0.001	
2/22/2017			<0.001					
2/23/2017	<0.001				<0.001			
2/24/2017							<0.001	
5/9/2017	<0.001				<0.001			
5/10/2017			<0.001				<0.001	
7/18/2017	<0.001		<0.001		<0.001		<0.001	
10/17/2017	<0.001		<0.001				<0.001	
10/18/2017					<0.001			
2/20/2018			<0.001				<0.001	
2/21/2018	<0.001				<0.001			
8/7/2018	<0.001				<0.001			
8/8/2018			<0.001				<0.001	
2/26/2019		<0.001		<0.001		0.00011 (J)		<0.001
6/12/2019				<0.001				<0.001
6/13/2019		<0.001				0.00021 (J)		
8/19/2019								<0.0025
8/20/2019		<0.0025		<0.0025				
8/21/2019					<0.0025			
10/9/2019		<0.0025		<0.0025				
10/10/2019						0.00018 (J)		<0.0025

Prediction Limit

Constituent: Cadmium, Chromium Analysis Run 2/12/2020 7:24 PM View: Time Series

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R	GWA-1	GWA-2	GWA-2	GWC-1R	GWC-1R
9/9/1998			<0.004				
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				<0.0013			
9/8/2010				<0.0013			
3/10/2011				<0.0013			
9/7/2011	<0.0013						
9/8/2011				<0.0013		<0.0013	
3/5/2012	<0.0013			<0.005		<0.005	
9/5/2012	<0.0013					<0.0013	
9/10/2012				<0.0013			
2/5/2013	<0.0013					<0.0013	
2/6/2013				<0.0013			
8/12/2013				<0.0013			
8/13/2013						<0.0013	
8/14/2013	<0.0013						
2/4/2014						<0.0013	
2/5/2014	<0.0013			0.0059			
8/4/2014	0.00045 (J)						
8/5/2014				<0.0013		<0.0013	
2/2/2015						0.0028	
2/3/2015	<0.0013						
2/4/2015				<0.0013			
8/3/2015	0.00046 (JD)			0.0011 (J)			
8/4/2015						<0.0013 (D)	
2/16/2016	0.00097 (J)			<0.0013		<0.0013	
8/31/2016				<0.01		0.0012 (J)	
9/1/2016	0.0005 (J)						
11/28/2016				<0.01			
11/29/2016						0.0009 (J)	
12/1/2016	0.0004 (J)						
2/22/2017				<0.01			
2/23/2017						0.001 (J)	
2/24/2017	0.0003 (J)						
5/8/2017				<0.01			
5/9/2017						0.0011 (J)	
5/10/2017	0.0003 (J)						
7/17/2017	0.0004 (J)			<0.01			
7/18/2017						0.0008 (J)	
10/16/2017	0.0006 (J)			<0.01			
10/17/2017						0.001 (J)	
2/19/2018				<0.01			

Prediction Limit

Constituent: Cadmium, Chromium Analysis Run 2/12/2020 7:24 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R	GWA-1	GWA-2	GWA-2	GWC-1R	GWC-1R
2/21/2018	<0.001					<0.01	
8/6/2018				<0.01			
8/7/2018	0.00083 (J)					<0.01	
2/25/2019					<0.01		
2/26/2019		0.00081 (J)					<0.01
6/12/2019					<0.01		
6/13/2019		0.00073 (J)					0.0009 (J)
8/19/2019					<0.01		
8/20/2019							0.0011 (J)
8/21/2019		0.0012 (J)					
10/8/2019					<0.01		
10/9/2019		0.0011 (J)					0.0012 (J)

Prediction Limit

Constituent: Chromium Analysis Run 2/12/2020 7:24 PM View: Time Series

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R	GWC-3R	GWC-3R	GWC-4R	GWC-4R	GWC-5R	GWC-5R
11/22/2010	<0.0013				<0.0013			
1/4/2011	<0.0013				0.0062			
2/17/2011	<0.0013				<0.0013			
3/11/2011	<0.0013				<0.0013			
3/28/2011	<0.0013				<0.0013			
9/7/2011	<0.0013		<0.0013		<0.0013		<0.0013	
3/4/2012					<0.005			
3/5/2012			<0.005				<0.005	
3/6/2012	<0.005							
9/5/2012			<0.0013				<0.0013	
9/10/2012					<0.0013			
9/11/2012	<0.0013							
2/5/2013							<0.0013	
2/6/2013	<0.0013		<0.0013		<0.0013			
8/13/2013	0.0017		0.0019					
8/14/2013					<0.0013		0.0016	
2/4/2014	<0.0013				<0.0013			
2/5/2014			0.0023				0.0018	
8/4/2014			0.002		<0.0013		0.0029	
8/5/2014	<0.0013							
2/2/2015	<0.0013				<0.0013			
2/3/2015			0.0014				0.0017	
8/3/2015			0.0012 (JD)		<0.0013 (D)		0.0028 (D)	
8/4/2015	<0.0013							
2/16/2016			0.0017		<0.0013		0.0028	
2/17/2016	<0.0013							
8/31/2016	<0.01		0.0013 (J)					
9/1/2016					<0.01		0.0021 (J)	
11/28/2016	<0.01							
11/30/2016			0.001 (J)		0.0013 (J)			
12/1/2016							0.0017 (J)	
2/22/2017	<0.01							
2/23/2017			0.0012 (J)					
2/24/2017					<0.01		0.0018 (J)	
5/9/2017			0.0016 (J)					
5/10/2017	0.0008 (J)				0.0007 (J)		0.0024 (J)	
7/17/2017							0.0017 (J)	
7/18/2017	<0.01		0.0009 (J)		0.0011 (J)			
10/16/2017							0.0023 (J)	
10/17/2017	<0.01				<0.01			
10/18/2017			0.001 (J)					
2/20/2018	<0.01				<0.01			
2/21/2018			<0.01				<0.01	
8/7/2018			<0.01				0.0024 (J)	
8/8/2018	<0.01				<0.01			
2/26/2019		<0.01		<0.01		<0.01		0.0019 (J)
6/12/2019		<0.01				<0.01		
6/13/2019				0.00073 (J)				0.0018 (J)
8/19/2019						0.00051 (J)		
8/20/2019		<0.01						
8/21/2019				0.001 (J)				0.0024 (J)
10/9/2019		0.00059 (J)						0.0024 (J)

Prediction Limit

Constituent: Chromium Analysis Run 2/12/2020 7:24 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R	GWC-3R	GWC-3R	GWC-4R	GWC-4R	GWC-5R	GWC-5R
10/10/2019				0.0014 (J)		0.00057 (J)		

Prediction Limit

Constituent: Chromium, Cobalt Analysis Run 2/12/2020 7:24 PM View: Time Series

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R	GWA-1	GWA-2	GWA-2	GWC-1R	GWC-1R
9/9/1998			0.013				
9/20/1999			<0.006				
9/12/2001			0.0024				
9/3/2002			<0.001				
7/29/2003			0.002				
12/5/2003			<0.001				
9/22/2004			<0.002				
5/1/2007				0.0067			
9/11/2007				<0.0025			
3/20/2008				<0.0025			
8/27/2008				<0.0025			
3/3/2009				<0.0025			
9/9/2009	<0.0013						
11/18/2009	<0.0013			<0.0025			
1/5/2010	<0.0013						
3/3/2010	<0.0013			0.0027			
9/7/2010	<0.0013						
9/8/2010				0.007			
3/10/2011	<0.0013			<0.0025			
9/8/2011	0.0018			<0.0025			
3/5/2012	<0.005			0.0032		<0.0025	
9/5/2012	0.0013					0.0018	
9/10/2012				<0.0013			
2/5/2013	<0.0013					0.0013	
2/6/2013				<0.0013			
8/12/2013				0.0045			
8/13/2013	0.0025					<0.0013	
2/4/2014	0.0013					<0.0013	
2/5/2014				<0.0013			
8/5/2014	0.0018			0.0027		<0.0013	
2/2/2015						0.0015	
2/3/2015	0.0015						
2/4/2015				0.0016			
8/3/2015				0.002			
8/4/2015	0.0028					<0.0013 (D)	
2/16/2016	0.001 (J)			0.0027		<0.0013	
8/31/2016				0.0053 (J)		0.0006 (J)	
9/1/2016	0.0015 (J)						
11/28/2016				0.0036 (J)			
11/29/2016	0.0014 (J)					<0.01	
2/22/2017				0.0049 (J)			
2/23/2017	0.0017 (J)					0.0009 (J)	
5/8/2017				0.0059 (J)			
5/9/2017						0.0008 (J)	
5/10/2017	0.0015 (J)						
7/17/2017				0.0046 (J)			
7/18/2017	0.0012 (J)					0.0032 (J)	
10/16/2017				0.0034 (J)			
10/17/2017						0.0007 (J)	
10/18/2017	0.0012 (J)						
2/19/2018	<0.01			<0.01			
2/21/2018						<0.01	

Prediction Limit

Constituent: Cobalt Analysis Run 2/12/2020 7:24 PM View: Time Series

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R	GWC-3R	GWC-3R	GWC-4R	GWC-4R	GWC-5R	GWC-5R
11/22/2010	0.038				<0.0025			
1/4/2011	0.049				0.0036			
2/17/2011	0.044				0.0035			
3/11/2011	0.038				0.0053			
3/28/2011	0.029				<0.0025			
9/7/2011	0.031		<0.0025		0.0033		<0.0025	
3/4/2012					0.0032			
3/5/2012			<0.0025				<0.0025	
3/6/2012	0.021							
9/5/2012			<0.0013				<0.0013	
9/10/2012					0.0067			
9/11/2012	0.017							
2/5/2013							<0.0013	
2/6/2013	0.025		<0.0013		0.0024			
8/13/2013	0.023		<0.0013					
8/14/2013					0.0014		<0.0013	
2/4/2014	0.019				<0.0013			
2/5/2014			<0.0013				<0.0013	
8/4/2014			<0.0013		<0.0013		<0.0013	
8/5/2014	0.023							
2/2/2015	0.022				<0.0013			
2/3/2015			<0.0013				<0.0013	
8/3/2015			<0.0013 (D)		<0.0013 (D)		<0.0013 (D)	
8/4/2015	0.021							
2/16/2016			<0.0013		0.0082		<0.0013	
2/17/2016	0.024							
8/31/2016	0.0239		<0.01					
9/1/2016					0.0023 (J)		<0.01	
11/28/2016	0.0189							
11/30/2016			<0.01		0.0008 (J)			
12/1/2016							<0.01	
2/22/2017	0.0184							
2/23/2017			<0.01					
2/24/2017					0.0025 (J)		<0.01	
5/9/2017			<0.01					
5/10/2017	0.0213				<0.01		<0.01	
7/17/2017							<0.01	
7/18/2017	0.0261		<0.01		0.0005 (J)			
10/16/2017							<0.01	
10/17/2017	0.0182				0.0006 (J)			
10/18/2017			<0.01					
2/20/2018	<0.01				<0.01			
2/21/2018			<0.01				<0.01	
8/7/2018			<0.01				<0.01	
8/8/2018	0.014				0.001 (J)			
2/26/2019		0.029		<0.01		<0.01		<0.01
6/12/2019		0.013				0.00078 (J)		
6/13/2019				0.01				<0.01
8/19/2019						0.001 (J)		
8/20/2019		0.014						
8/21/2019				0.0016 (J)				0.00034 (J)
10/9/2019		0.024						0.00031 (J)

Prediction Limit

Constituent: Cobalt Analysis Run 2/12/2020 7:24 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R	GWC-3R	GWC-3R	GWC-4R	GWC-4R	GWC-5R	GWC-5R
10/10/2019				<0.005		0.00099 (J)		

Prediction Limit

Constituent: Cobalt, Copper Analysis Run 2/12/2020 7:24 PM View: Time Series

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R	GWA-1	GWA-2	GWA-2	GWC-1R	GWC-1R
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				<0.0025			
3/20/2008				<0.0025			
8/27/2008				0.0074			
3/3/2009				<0.0025			
9/9/2009	<0.0025						
11/18/2009	<0.0025			0.0029			
1/5/2010	<0.0025						
3/3/2010	<0.0025			0.005			
9/7/2010	<0.0025						
9/8/2010				<0.0025			
3/10/2011	<0.0025			0.0029			
9/8/2011	<0.0025			<0.013		<0.013	
3/5/2012	<0.0025			<0.013		<0.013	
9/5/2012	<0.0013					<0.005	
9/10/2012				<0.005			
2/5/2013	<0.0013					<0.005	
2/6/2013				<0.005			
8/12/2013				<0.005			
8/13/2013	<0.0013					<0.005	
2/4/2014	<0.0013					<0.005	
2/5/2014				<0.005			
8/5/2014	<0.0013			0.005		<0.005	
2/2/2015						0.0031 (J)	
2/3/2015	<0.0013						
2/4/2015				0.0025 (J)			
8/3/2015				0.0014 (J)			
8/4/2015	0.0014					<0.005 (D)	
2/16/2016	<0.0013			0.0011 (J)		<0.005	
9/1/2016	<0.01						
11/29/2016	<0.01						
2/22/2017				0.0011 (J)			
2/23/2017	<0.01					<0.025	
5/10/2017	<0.01						
7/18/2017	<0.01						
10/18/2017	<0.01						
2/19/2018	<0.01			<0.005			
2/21/2018						<0.005	
8/6/2018	<0.01			<0.025			
8/7/2018						<0.025	
2/25/2019		<0.01			<0.025		
2/26/2019							<0.025
6/12/2019					0.00034 (J)		
6/13/2019		<0.01					<0.025
8/20/2019		<0.005					

Prediction Limit

Constituent: Copper Analysis Run 2/12/2020 7:24 PM View: Time Series

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R	GWC-3R	GWC-3R	GWC-4R	GWC-4R	GWC-5R	GWC-5R
11/22/2010	<0.0025				<0.0025			
1/4/2011	<0.0025				0.0049			
2/17/2011	<0.0025				<0.0025			
3/11/2011	<0.0025				<0.0025			
3/28/2011	<0.0025				<0.0025			
9/7/2011	<0.013		<0.013		<0.013		<0.013	
3/4/2012					<0.013			
3/5/2012			<0.013				<0.013	
3/6/2012	<0.013							
9/5/2012			0.016				<0.005	
9/10/2012					<0.005			
9/11/2012	<0.005							
2/5/2013							<0.005	
2/6/2013	<0.005		<0.005		<0.005			
8/13/2013	<0.005		<0.005					
8/14/2013					<0.005		<0.005	
2/4/2014	<0.005				<0.005			
2/5/2014			<0.005				<0.005	
8/4/2014			0.0012 (J)		<0.005		0.0015 (J)	
8/5/2014	<0.005							
2/2/2015	<0.005				<0.005			
2/3/2015			<0.005				<0.005	
8/3/2015			<0.005 (D)		<0.005 (D)		<0.005 (D)	
8/4/2015	<0.005							
2/16/2016			0.00082 (J)		0.00088 (J)		<0.005	
2/17/2016	<0.005							
2/22/2017	<0.025							
2/23/2017			<0.025					
2/24/2017					<0.025		<0.025	
2/20/2018	<0.005				<0.005			
2/21/2018			<0.005				<0.005	
8/7/2018			<0.025				<0.025	
8/8/2018	<0.025				<0.025			
2/26/2019		<0.025		<0.025		<0.025		<0.025
6/12/2019		<0.025				0.00025 (J)		
6/13/2019				<0.025				0.00049 (J)
10/9/2019		0.00024 (J)						0.00087 (J)
10/10/2019				0.00033 (J)		<0.025		

Prediction Limit

Constituent: Copper, Lead Analysis Run 2/12/2020 7:24 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R	GWA-1	GWC-1R	GWC-1R	GWC-2R	GWC-2R
6/13/2019		0.0011 (J)			<0.005		
8/20/2019					<0.005		6.1E-05 (J)
10/8/2019		0.0011 (J)					
10/9/2019					5.2E-05 (J)		5.7E-05 (J)

Prediction Limit

Constituent: Lead, Mercury Analysis Run 2/12/2020 7:24 PM View: Time Series

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R	GWC-5R	GWC-5R	GWA-2	GWA-2	GWC-1R	GWC-1R
5/1/2007					<0.000254			
9/11/2007					<0.000254			
3/20/2008					<0.000145			
8/27/2008					<0.000145			
3/3/2009					<0.00025			
11/18/2009					<0.00025			
3/3/2010					<0.000591			
9/8/2010					<0.000591			
3/10/2011					<0.000299			
9/7/2011	<0.013		<0.013					
9/8/2011					<0.000168		<0.000168	
3/5/2012	<0.013		<0.013		<0.000123		<0.000123	
9/5/2012	<0.013		<0.013				<0.0002	
9/10/2012					<0.0002			
2/5/2013			<0.013				<0.0001	
2/6/2013	<0.013				<0.0001			
8/12/2013					<0.0002			
8/13/2013	<0.013						<0.0002	
8/14/2013			<0.013					
2/4/2014							<0.0002	
2/5/2014	<0.013		<0.013		<0.0002			
8/4/2014	<0.013		<0.013					
8/5/2014					<0.000213		<0.000213	
2/2/2015							<0.0001	
2/3/2015	<0.013		<0.013					
2/4/2015					<0.0001			
8/3/2015	<0.013 (D)		<0.013 (D)		<0.0002			
8/4/2015							<0.0002 (D)	
2/16/2016	<0.013		<0.013		1.36E-05 (J)		<0.0002	
8/31/2016	0.0001 (J)				<0.0005		<0.0005	
9/1/2016			<0.005					
11/28/2016					<0.0005			
11/29/2016							<0.0005	
11/30/2016	<0.005							
12/1/2016			<0.005					
2/22/2017					<0.0005			
2/23/2017	<0.005						<0.0005	
2/24/2017			<0.005					
5/8/2017					<0.0005			
5/9/2017	<0.005						<0.0005	
5/10/2017			<0.005					
7/17/2017			<0.005		<0.0005			
7/18/2017	<0.005						<0.0005	
10/16/2017			<0.005		<0.0005			
10/17/2017							<0.0005	
10/18/2017	8E-05 (J)							
2/19/2018					<0.0002			
2/21/2018	<0.005		<0.005				<0.0002	
8/6/2018					<0.0005			
8/7/2018	<0.005		<0.005				<0.0005	
2/25/2019						7.4E-05 (J)		
2/26/2019		<0.005		<0.005				5.9E-05 (J)

Prediction Limit

Constituent: Lead, Mercury Analysis Run 2/12/2020 7:24 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R	GWC-5R	GWC-5R	GWA-2	GWA-2	GWC-1R	GWC-1R
6/12/2019						<0.0005		
6/13/2019		<0.005		<0.005				<0.0005
8/19/2019						<0.0005		
8/20/2019								<0.0005
8/21/2019		8.2E-05 (J)		7E-05 (J)				
10/8/2019						<0.0002		
10/9/2019				5.9E-05 (J)				<0.0002
10/10/2019		<0.005						

Prediction Limit

Constituent: Mercury Analysis Run 2/12/2020 7:24 PM View: Time Series

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R	GWC-3R	GWC-3R	GWC-4R	GWC-4R	GWC-5R	GWC-5R
11/22/2010	<0.000299				<0.000299			
1/4/2011	<0.000299				<0.000299			
2/17/2011	<0.000299				<0.000299			
3/11/2011	<0.000299				<0.000299			
3/28/2011	<0.000299				<0.000299			
9/7/2011	<0.000168		<0.000168		<0.000168		<0.000168	
3/4/2012					<0.000123			
3/5/2012			<0.000123				<0.000123	
3/6/2012	<0.000123							
9/5/2012			<0.0002				<0.0002	
9/10/2012					<0.0002			
9/11/2012	<0.0002							
2/5/2013							<0.0001	
2/6/2013	<0.0001		<0.0001		0.00014			
8/13/2013	<0.0002		<0.0002					
8/14/2013					<0.0002		<0.0002	
2/4/2014	<0.0002				<0.0002			
2/5/2014			<0.0002				<0.0002	
8/4/2014			<0.000213		<0.000213		<0.000213	
8/5/2014	<0.000213							
2/2/2015	<0.0001				<0.0001			
2/3/2015			<0.0001				<0.0001	
8/3/2015			<0.0002 (D)		<0.0002 (D)		<0.0002 (D)	
8/4/2015	<0.0002							
2/16/2016			1.34E-05 (J)		<0.0002		<0.0002	
2/17/2016	<0.0002							
8/31/2016	<0.0005		<0.0005					
9/1/2016					<0.0005		<0.0005	
11/28/2016	<0.0005							
11/30/2016			<0.0005		<0.0005			
12/1/2016							<0.0005	
2/22/2017	<0.0005							
2/23/2017			<0.0005					
2/24/2017					<0.0005		<0.0005	
5/9/2017			<0.0005					
5/10/2017	<0.0005				<0.0005		<0.0005	
7/17/2017							<0.0005	
7/18/2017	<0.0005		<0.0005		<0.0005			
10/16/2017							<0.0005	
10/17/2017	<0.0005				<0.0005			
10/18/2017			<0.0005					
2/20/2018	<0.0002				<0.0002			
2/21/2018			<0.0002				<0.0002	
8/7/2018			<0.0005				<0.0005	
8/8/2018	<0.0005				<0.0005			
2/26/2019		7.1E-05 (J)		6.4E-05 (J)		5.8E-05 (J)		6E-05 (J)
6/12/2019		<0.0005				<0.0005		
6/13/2019				<0.0005				<0.0005
8/19/2019						<0.0005		
8/20/2019		<0.0005						
8/21/2019				<0.0005				<0.0005
10/9/2019		<0.0002						<0.0002

Prediction Limit

Constituent: Mercury Analysis Run 2/12/2020 7:24 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R	GWC-3R	GWC-3R	GWC-4R	GWC-4R	GWC-5R	GWC-5R
10/10/2019				0.00043 (J)		<0.0002		

Prediction Limit

Constituent: Mercury, Nickel Analysis Run 2/12/2020 7:24 PM View: Time Series

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R	GWA-1	GWA-2	GWA-2	GWC-1R	GWC-1R
9/9/1998			<0.011				
9/20/1999			<0.011				
9/12/2001			<0.005				
9/3/2002			<0.005				
7/29/2003			0.0061				
12/5/2003			<0.006				
9/22/2004			<0.004				
5/1/2007				0.0061			
9/11/2007				0.021			
3/20/2008				<0.0025			
8/27/2008				<0.0025			
3/3/2009				0.005			
9/9/2009	<0.00025						
11/18/2009	<0.00025			0.0052			
1/5/2010	<0.00025						
3/3/2010	<0.000591			0.011			
9/7/2010	<0.000591						
9/8/2010				0.012			
3/10/2011	<0.000299			0.0032			
9/8/2011	<0.000168			0.0046		0.009	
3/5/2012	<0.000123			0.0053		0.0035	
9/5/2012	<0.0002					0.0027	
9/10/2012				0.0074			
2/5/2013	<0.0001					0.0026	
2/6/2013				0.0077			
8/12/2013				0.016			
8/13/2013	<0.0002					<0.0025	
2/4/2014	<0.0002					<0.0025	
2/5/2014				0.019			
8/5/2014	<0.000213			0.0057		0.0013 (J)	
2/2/2015						0.0023 (J)	
2/3/2015	<0.0001						
2/4/2015				0.0055			
8/3/2015				0.0055			
8/4/2015	<0.0002					<0.0025 (D)	
2/16/2016	1.13E-05 (J)			0.0039		<0.0025	
9/1/2016	<0.0005						
11/29/2016	<0.0005						
2/22/2017				0.0051 (J)			
2/23/2017	<0.0005					0.0026 (J)	
5/10/2017	<0.0005						
7/18/2017	<0.0005						
10/18/2017	<0.0005						
2/19/2018	<0.0002			<0.005			
2/21/2018						0.001 (J)	
8/6/2018	<0.0005			0.003 (J)			
8/7/2018						<0.01	
2/25/2019		6.7E-05 (J)			0.0026 (J)		
2/26/2019							<0.01
6/12/2019					0.0038 (J)		
6/13/2019	<0.0005						0.00072 (J)
8/20/2019	<0.0005						

Prediction Limit

Constituent: Nickel Analysis Run 2/12/2020 7:24 PM View: Time Series

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-2R	GWC-3R	GWC-3R	GWC-4R	GWC-4R	GWC-5R	GWC-5R
11/22/2010	0.0096				<0.0025			
1/4/2011	0.0084				<0.0025			
2/17/2011	0.0088				<0.0025			
3/11/2011	0.0058				<0.0025			
3/28/2011	0.0058				<0.0025			
9/7/2011	0.005		0.0054		<0.0025		<0.0025	
3/4/2012					<0.0025			
3/5/2012			<0.0025				<0.0025	
3/6/2012	<0.0025							
9/5/2012			<0.0025				<0.0025	
9/10/2012					<0.0025			
9/11/2012	<0.0025							
2/5/2013							<0.0025	
2/6/2013	<0.0025		<0.0025		<0.0025			
8/13/2013	0.003		0.0032					
8/14/2013					<0.0025		0.0032	
2/4/2014	0.0026				0.0033			
2/5/2014			0.0039				0.0032	
8/4/2014			0.0024 (J)		0.0015 (J)		0.0059	
8/5/2014	0.0015 (J)							
2/2/2015	<0.0025				<0.0025			
2/3/2015			<0.0025				0.0013 (J)	
8/3/2015			<0.0025 (D)		<0.0025 (D)		0.0039 (D)	
8/4/2015	<0.0025							
2/16/2016			<0.0025		<0.0025		0.0036	
2/17/2016	<0.0025							
2/22/2017	0.0009 (J)							
2/23/2017			<0.01					
2/24/2017					0.0021 (J)		0.0019 (J)	
2/20/2018	<0.005				<0.005			
2/21/2018			<0.005				0.0013 (J)	
8/7/2018			<0.01				0.0019 (J)	
8/8/2018	<0.01				0.0012 (J)			
2/26/2019		0.0068 (J)		<0.01		<0.01		0.0023 (J)
6/12/2019		0.00043 (J)				0.00082 (J)		
6/13/2019				<0.01				0.0019 (J)
10/9/2019		0.00058 (J)						0.0019 (J)
10/10/2019				<0.01		0.00084 (J)		

Prediction Limit

Constituent: Nickel, Selenium Analysis Run 2/12/2020 7:24 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-6R	GWC-6R	GWA-1	GWC-1R	GWC-1R	GWC-2R	GWC-2R
6/13/2019		0.0037 (J)			<0.01		
8/20/2019					0.0022 (J)		0.0032 (J)
10/8/2019		0.0021 (J)					
10/9/2019					0.0023 (J)		0.0026 (J)

Prediction Limit

Constituent: Selenium Analysis Run 2/12/2020 7:24 PM View: Time Series

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R	GWC-4R	GWC-4R	GWC-5R	GWC-5R	GWC-6R	GWC-6R
9/9/2009							<0.013	
11/18/2009							<0.013	
1/5/2010							<0.013	
3/3/2010							<0.013	
9/7/2010							<0.013	
11/22/2010			<0.013					
1/4/2011			<0.013					
2/17/2011			<0.013					
3/10/2011							<0.013	
3/11/2011			<0.013					
3/28/2011			<0.013					
9/7/2011	<0.013		<0.013		<0.013			
9/8/2011							<0.013	
3/4/2012			<0.013					
3/5/2012	<0.013				0.014		<0.013	
9/5/2012	<0.005				0.012		<0.005	
9/10/2012			0.011					
2/5/2013					0.011		<0.005	
2/6/2013	<0.005		0.011					
8/13/2013	0.0057						<0.005	
8/14/2013			0.013		0.025			
2/4/2014			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	
2/2/2015			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	
2/16/2016	<0.005		0.0047 (J)		0.022		<0.005	
8/31/2016	0.0038 (J)							
9/1/2016			0.0132		0.0212		0.002 (J)	
11/29/2016							0.0017 (J)	
11/30/2016	0.0054 (J)		0.0046 (J)					
12/1/2016					0.0234			
2/23/2017	0.002 (J)						0.0018 (J)	
2/24/2017			0.0108		0.0154			
5/9/2017	<0.01							
5/10/2017			0.0054 (J)		0.0152		0.0023 (J)	
7/17/2017					0.0136			
7/18/2017	0.0027 (J)		0.0047 (J)				0.0046 (J)	
10/16/2017					0.0242			
10/17/2017			0.004 (J)					
10/18/2017	0.0047 (J)						0.0037 (J)	
2/19/2018							<0.01	
2/20/2018			<0.01					
2/21/2018	<0.01				0.0127			
8/6/2018							0.0047 (J)	
8/7/2018	0.0016 (J)				0.021			
8/8/2018			0.0041 (J)					
2/25/2019								0.0051 (J)
2/26/2019		0.002 (J)		0.0027 (J)		0.024		

Prediction Limit

Constituent: Selenium Analysis Run 2/12/2020 7:24 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-3R	GWC-3R	GWC-4R	GWC-4R	GWC-5R	GWC-5R	GWC-6R	GWC-6R
6/12/2019				0.0029 (J)				
6/13/2019		0.0089 (J)				0.027		0.0048 (J)
8/19/2019				0.003 (J)				
8/20/2019								0.0039 (J)
8/21/2019		0.004 (J)				0.037		
10/8/2019								0.0031 (J)
10/9/2019						0.034		
10/10/2019		0.0021 (J)		0.0024 (J)				

Prediction Limit

Constituent: Thallium, Vanadium Analysis Run 2/12/2020 7:24 PM View: Time Series

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2	GWC-2R	GWC-2R	GWC-5R	GWC-5R	GWA-2	GWA-2
5/1/2007	<0.002						0.0055	
9/11/2007	<0.002						0.004	
3/20/2008	<0.002						<0.0025	
8/27/2008	<0.002						0.0029	
3/3/2009	<0.002						<0.0025	
11/18/2009	<0.002						<0.0025	
3/3/2010	<0.002						<0.0025	
9/8/2010	<0.002						<0.0025	
11/22/2010			<0.001					
1/4/2011			<0.001					
2/17/2011			<0.001					
3/10/2011	<0.001						<0.0025	
3/11/2011			<0.001					
3/28/2011			<0.001					
9/7/2011			<0.001		<0.001			
9/8/2011	<0.001						<0.0025	
3/5/2012	<0.001				<0.001		<0.01	
3/6/2012			<0.001					
9/5/2012					<0.001			
9/10/2012	<0.001						<0.005	
9/11/2012			<0.001					
2/5/2013					<0.001			
2/6/2013	<0.001		<0.001				<0.005	
8/12/2013	<0.001						<0.005	
8/13/2013			<0.001					
8/14/2013					<0.001			
2/4/2014			<0.002					
2/5/2014	<0.002				<0.002		<0.005	
8/4/2014					<0.001			
8/5/2014	<0.001						<0.005	
2/2/2015			<0.001					
2/3/2015					<0.001			
2/4/2015	<0.001						<0.005	
8/3/2015							0.0013 (J)	
2/16/2016	<0.001				<0.001		<0.005	
2/17/2016			7E-05 (J)					
8/31/2016	<0.001		<0.001					
9/1/2016					<0.001			
11/28/2016	<0.001		<0.001					
12/1/2016					<0.001			
2/22/2017	<0.001		<0.001				<0.01	
2/24/2017					<0.001			
5/8/2017	6E-05 (J)						<0.01	
5/10/2017			<0.001		<0.001			
7/17/2017	6E-05 (J)				<0.001		<0.01	
7/18/2017			<0.001					
10/16/2017	7E-05 (J)				<0.001			
10/17/2017			<0.001					
2/19/2018	<0.001						<0.01	
2/20/2018			<0.001					
2/21/2018					<0.001			
8/6/2018	<0.001						<0.01	

Prediction Limit

Constituent: Thallium, Vanadium Analysis Run 2/12/2020 7:24 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2	GWA-2	GWC-2R	GWC-2R	GWC-5R	GWC-5R	GWA-2	GWA-2
8/7/2018					<0.001			
8/8/2018			<0.001					
2/25/2019		<0.001						<0.01
2/26/2019				<0.001		<0.001		
6/12/2019		<0.001		<0.001				0.0032 (J)
6/13/2019						<0.001		
8/19/2019		5.5E-05 (J)						
8/20/2019				<0.001				
8/21/2019						5.3E-05 (J)		
10/8/2019		<0.001						<0.01
10/9/2019				<0.001		<0.001		

Prediction Limit

Constituent: Vanadium Analysis Run 2/12/2020 7:24 PM View: Time Series

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R	GWC-2R	GWC-2R	GWC-3R	GWC-3R	GWC-4R	GWC-4R
11/22/2010			<0.0025				<0.0025	
1/4/2011			<0.0025				<0.0025	
2/17/2011			<0.0025				<0.0025	
3/11/2011			<0.0025				<0.0025	
3/28/2011			<0.0025				<0.0025	
9/7/2011			<0.0025		<0.0025		<0.0025	
9/8/2011	<0.0025							
3/4/2012							<0.01	
3/5/2012	<0.01				<0.01			
3/6/2012			<0.01					
9/5/2012	<0.005				<0.005			
9/10/2012							<0.005	
9/11/2012			<0.005					
2/5/2013	<0.005							
2/6/2013			<0.005		<0.005		<0.005	
8/13/2013	<0.005		<0.005		<0.005			
8/14/2013							<0.005	
2/4/2014	<0.005		<0.005				<0.005	
2/5/2014					<0.005			
8/4/2014					<0.005		<0.005	
8/5/2014	0.0011 (J)		<0.005					
2/2/2015	0.0051		<0.005				<0.005	
2/3/2015					<0.005			
8/3/2015					<0.005 (D)		<0.005 (D)	
8/4/2015	<0.005 (D)		<0.005					
2/16/2016	0.00075 (J)				<0.005		<0.005	
2/17/2016			<0.005					
2/22/2017			<0.01					
2/23/2017	<0.01				<0.01			
2/24/2017							<0.01	
5/9/2017	<0.01				<0.01			
5/10/2017			<0.01				<0.01	
7/18/2017	<0.01		<0.01		<0.01		<0.01	
2/20/2018			<0.01				<0.01	
2/21/2018	<0.01				<0.01			
8/7/2018	<0.01				<0.01			
8/8/2018			<0.01				<0.01	
2/26/2019		<0.01		<0.01		<0.01		<0.01
6/12/2019				0.00079 (J)				0.00088 (J)
6/13/2019		<0.01				0.0021 (J)		
10/9/2019		<0.01		<0.01				
10/10/2019						0.0011 (J)		<0.01

Prediction Limit

Constituent: Vanadium, Zinc Analysis Run 2/12/2020 7:24 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R	GWC-6R	GWC-6R	GWA-1	GWA-2	GWA-2
6/13/2019		<0.01		<0.01			
10/8/2019				<0.01			0.0078 (J)
10/9/2019		<0.01					

Prediction Limit

Constituent: Zinc Analysis Run 2/12/2020 7:24 PM View: Time Series

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R	GWC-2R	GWC-2R	GWC-3R	GWC-3R	GWC-4R	GWC-4R
11/22/2010			0.0047				<0.0025	
1/4/2011			0.0038				<0.0025	
2/17/2011			0.0074				<0.0025	
3/11/2011			0.0038					
3/28/2011			<0.0025				<0.0025	
9/7/2011			0.0059		0.0064		<0.0025	
9/8/2011	0.0048							
3/4/2012							<0.0025	
3/5/2012	0.0038				0.0043			
3/6/2012			0.0032					
9/5/2012	0.0051				0.0069			
9/10/2012							<0.0025	
9/11/2012			0.0029					
2/5/2013	<0.0025							
2/6/2013			0.0036		<0.0025		<0.0025	
8/13/2013	<0.0025		0.0066		0.011			
8/14/2013							<0.0025	
2/4/2014	0.0037		0.011				0.0034	
8/4/2014					0.012		0.0013 (J)	
8/5/2014	0.0019 (J)		0.0032					
2/2/2015	0.0051		0.0031				<0.0025	
2/3/2015					0.0061			
8/3/2015					0.0037 (D)		<0.0025 (D)	
8/4/2015	0.0017 (JD)		0.0017 (J)					
2/16/2016	0.0015 (J)				0.0093		0.0017 (J)	
2/17/2016			0.0034					
2/22/2017			0.0024 (J)					
2/23/2017	0.0024 (J)				0.0031 (J)			
2/24/2017							0.0028 (J)	
5/9/2017	0.0016 (J)				0.0025 (J)			
5/10/2017			0.0022 (J)				0.0014 (J)	
7/18/2017	0.0015 (J)		0.0017 (J)		0.0028 (J)		0.0015 (J)	
2/20/2018			<0.01				<0.01	
2/21/2018	<0.01				0.003 (J)			
8/7/2018	0.0044 (J)				0.0036 (J)			
8/8/2018			0.0021 (J)				0.0033 (J)	
2/26/2019		0.0022 (J)		0.003 (J)		0.0033 (J)		<0.01
6/12/2019				0.0019 (J)				<0.01
6/13/2019		<0.01				0.0069 (J)		
10/9/2019		0.0078 (J)		0.0069 (J)				
10/10/2019						0.0079 (J)		0.006 (J)

Prediction Limit

Constituent: Zinc Analysis Run 2/12/2020 7:24 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R	GWC-6R	GWC-6R
9/9/2009			0.003	
11/18/2009			<0.0025	
1/5/2010			0.0027	
3/3/2010			<0.0025	
9/7/2010			<0.0025	
3/10/2011			<0.0025	
9/7/2011	0.0064			
9/8/2011			<0.0025	
3/5/2012	0.0034		0.0053	
9/5/2012	0.0035		0.0033	
2/5/2013	0.0027		<0.0025	
8/13/2013			0.0038	
8/14/2013	0.0041			
2/4/2014			0.0046	
2/5/2014	0.011			
8/4/2014	0.011			
8/5/2014			0.0019 (J)	
2/3/2015	0.0044		0.0026	
8/3/2015	0.011 (D)			
8/4/2015			0.0035	
2/16/2016	0.014		0.002 (J)	
2/23/2017			0.0038 (J)	
2/24/2017	0.0043 (J)			
5/10/2017	0.0042 (J)		0.0027 (J)	
7/17/2017	0.0055 (J)			
7/18/2017			0.0024 (J)	
2/19/2018			<0.01	
2/21/2018	0.0102			
8/6/2018			0.004 (J)	
8/7/2018	0.015			
2/25/2019				0.0028 (J)
2/26/2019		0.015		
6/13/2019		0.015		<0.01
10/8/2019				0.006 (J)
10/9/2019		0.025		
1/21/2020		0.015		

Sen's Slope Estimator

Constituent: Boron, Calcium Analysis Run 2/12/2020 7:33 PM View: Time Series

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-1R	GWC-5R	GWC-6R
8/31/2016		69.4		
9/1/2016	3.25		113	56.8
11/29/2016		70.6 (B)		50.7 (B)
11/30/2016	0.813			
12/1/2016			141 (B)	
2/23/2017		62.4		63.5
2/24/2017	2.53		118	
5/9/2017		47.4		
5/10/2017	1.22		136	105
7/17/2017			125	
7/18/2017	0.97	33.2		157
10/16/2017			78.2	
10/17/2017	0.804	38.7		
10/18/2017				118
2/19/2018				124
2/20/2018	1.01			
2/21/2018		34.3	64	
8/6/2018				173
8/7/2018		26.2	83	
8/8/2018	1.3			
2/25/2019				143
2/26/2019	0.75	24.7 (J)	94.4	
6/12/2019	1.5			
6/13/2019		33.8	127	146
10/8/2019				115
10/9/2019		59.1	128	
10/10/2019	0.78			

Sen's Slope Estimator

Constituent: Chloride Analysis Run 2/12/2020 7:33 PM View: Time Series

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R
8/31/2016	7.6	6.3	6.7	
9/1/2016				190
11/28/2016		6.7		
11/29/2016	5.8			
11/30/2016			7.8	48
2/22/2017		5.7		
2/23/2017	6.2		6.5	
2/24/2017				130
5/9/2017	16		7.2	
5/10/2017		7.1		71
7/18/2017	18	6	7.7	46
10/17/2017	31	6.1		50
10/18/2017			6.5	
2/20/2018		5.8		53.1
2/21/2018	27		6.7	
8/7/2018	35.4		6.3	
8/8/2018		4.7		69.3
2/26/2019	20	5.7	5.7	42.2
6/12/2019		9.1		69.5
6/13/2019	16.4		5	
10/9/2019	6.9	9.8		
10/10/2019			5.3	42.8

Sen's Slope Estimator

Constituent: Sulfate, TDS Analysis Run 2/12/2020 7:33 PM View: Time Series

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-5R	GWC-6R	GWC-1R
8/31/2016	410			616
9/1/2016		990	360	
11/29/2016	450		320	594
12/1/2016		1100		
2/23/2017	390		380	581
2/24/2017		850		
5/9/2017	280			410
5/10/2017		1000	660	
7/17/2017		830		
7/18/2017	200		880	322
10/16/2017		720		
10/17/2017	180			381
10/18/2017			760	
2/19/2018			718	
2/21/2018	146	533		285
8/6/2018			797	
8/7/2018	100	784		242
2/25/2019			763	
2/26/2019	118	742		69
6/13/2019	163	976	918	301
10/8/2019			664	
10/9/2019	318	1180		526

Sen's Slope Estimator

Constituent: TDS Analysis Run 2/12/2020 7:33 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-2R	GWC-5R	GWC-6R
8/31/2016	257		
9/1/2016		1400	578
11/28/2016	177		
11/29/2016			455
12/1/2016		1610 (B)	
2/22/2017	240		
2/23/2017			614
2/24/2017		1200	
5/10/2017	149	1360	955
7/17/2017		1340	
7/18/2017	122		1270
10/16/2017		1080	
10/17/2017	214		
10/18/2017			1150
2/19/2018			1070
2/20/2018	131		
2/21/2018		830	
8/6/2018			1260
8/7/2018		1180	
8/8/2018	166		
2/25/2019			1160
2/26/2019	293	1010	
6/12/2019	391		
6/13/2019		1410	1310
10/8/2019			1050
10/9/2019	372	1680	

**Appendix III Statistics (from 2019 Second Semiannual Groundwater
Monitoring and Corrective Action Report)**

Interwell Prediction Limits Significant Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 2/20/2020, 5:45 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	GWC-4R	0.04	10/10/2019	0.78	Yes	11	63.64	n/a	0.01058	NP (NDs) 1 of 2
Calcium (mg/L)	GWC-1R	27.86	10/9/2019	59.1	Yes	11	9.091	sqrt(x)	0.001254	Param 1 of 2
Calcium (mg/L)	GWC-5R	27.86	10/9/2019	128	Yes	11	9.091	sqrt(x)	0.001254	Param 1 of 2
Calcium (mg/L)	GWC-6R	27.86	10/8/2019	115	Yes	11	9.091	sqrt(x)	0.001254	Param 1 of 2
Chloride (mg/L)	GWC-1R	5.187	10/9/2019	6.9	Yes	11	0	No	0.001254	Param 1 of 2
Chloride (mg/L)	GWC-2R	5.187	10/9/2019	9.8	Yes	11	0	No	0.001254	Param 1 of 2
Chloride (mg/L)	GWC-3R	5.187	10/10/2019	5.3	Yes	11	0	No	0.001254	Param 1 of 2
Chloride (mg/L)	GWC-4R	5.187	10/10/2019	42.8	Yes	11	0	No	0.001254	Param 1 of 2
Sulfate (mg/L)	GWC-1R	126.5	10/9/2019	318	Yes	11	0	No	0.001254	Param 1 of 2
Sulfate (mg/L)	GWC-5R	126.5	10/9/2019	1180	Yes	11	0	No	0.001254	Param 1 of 2
Sulfate (mg/L)	GWC-6R	126.5	10/8/2019	664	Yes	11	0	No	0.001254	Param 1 of 2
TDS (mg/L)	GWC-1R	308.5	10/9/2019	526	Yes	11	0	No	0.001254	Param 1 of 2
TDS (mg/L)	GWC-2R	308.5	10/9/2019	372	Yes	11	0	No	0.001254	Param 1 of 2
TDS (mg/L)	GWC-5R	308.5	10/9/2019	1680	Yes	11	0	No	0.001254	Param 1 of 2
TDS (mg/L)	GWC-6R	308.5	10/8/2019	1050	Yes	11	0	No	0.001254	Param 1 of 2

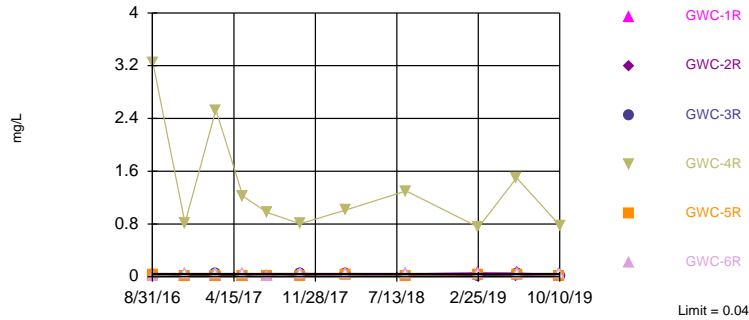
Interwell Prediction Limits All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 2/20/2020, 5:45 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	GWC-1R	0.04	10/9/2019	0.029	No	11	63.64	n/a	0.01058	NP (NDs) 1 of 2
Boron (mg/L)	GWC-2R	0.04	10/9/2019	0.018	No	11	63.64	n/a	0.01058	NP (NDs) 1 of 2
Boron (mg/L)	GWC-3R	0.04	10/10/2019	0.0061	No	11	63.64	n/a	0.01058	NP (NDs) 1 of 2
Boron (mg/L)	GWC-4R	0.04	10/10/2019	0.78	Yes	11	63.64	n/a	0.01058	NP (NDs) 1 of 2
Boron (mg/L)	GWC-5R	0.04	10/9/2019	0.013	No	11	63.64	n/a	0.01058	NP (NDs) 1 of 2
Boron (mg/L)	GWC-6R	0.04	10/8/2019	0.04ND	No	11	63.64	n/a	0.01058	NP (NDs) 1 of 2
Calcium (mg/L)	GWC-1R	27.86	10/9/2019	59.1	Yes	11	9.091	sqrt(x)	0.001254	Param 1 of 2
Calcium (mg/L)	GWC-2R	27.86	10/9/2019	27.8	No	11	9.091	sqrt(x)	0.001254	Param 1 of 2
Calcium (mg/L)	GWC-3R	27.86	10/10/2019	4.3	No	11	9.091	sqrt(x)	0.001254	Param 1 of 2
Calcium (mg/L)	GWC-4R	27.86	10/10/2019	18	No	11	9.091	sqrt(x)	0.001254	Param 1 of 2
Calcium (mg/L)	GWC-5R	27.86	10/9/2019	128	Yes	11	9.091	sqrt(x)	0.001254	Param 1 of 2
Calcium (mg/L)	GWC-6R	27.86	10/8/2019	115	Yes	11	9.091	sqrt(x)	0.001254	Param 1 of 2
Chloride (mg/L)	GWC-1R	5.187	10/9/2019	6.9	Yes	11	0	No	0.001254	Param 1 of 2
Chloride (mg/L)	GWC-2R	5.187	10/9/2019	9.8	Yes	11	0	No	0.001254	Param 1 of 2
Chloride (mg/L)	GWC-3R	5.187	10/10/2019	5.3	Yes	11	0	No	0.001254	Param 1 of 2
Chloride (mg/L)	GWC-4R	5.187	10/10/2019	42.8	Yes	11	0	No	0.001254	Param 1 of 2
Chloride (mg/L)	GWC-5R	5.187	10/9/2019	4.5	No	11	0	No	0.001254	Param 1 of 2
Chloride (mg/L)	GWC-6R	5.187	10/8/2019	4.9	No	11	0	No	0.001254	Param 1 of 2
Sulfate (mg/L)	GWC-1R	126.5	10/9/2019	318	Yes	11	0	No	0.001254	Param 1 of 2
Sulfate (mg/L)	GWC-2R	126.5	10/9/2019	91.2	No	11	0	No	0.001254	Param 1 of 2
Sulfate (mg/L)	GWC-3R	126.5	10/10/2019	48	No	11	0	No	0.001254	Param 1 of 2
Sulfate (mg/L)	GWC-4R	126.5	10/10/2019	68.7	No	11	0	No	0.001254	Param 1 of 2
Sulfate (mg/L)	GWC-5R	126.5	10/9/2019	1180	Yes	11	0	No	0.001254	Param 1 of 2
Sulfate (mg/L)	GWC-6R	126.5	10/8/2019	664	Yes	11	0	No	0.001254	Param 1 of 2
TDS (mg/L)	GWC-1R	308.5	10/9/2019	526	Yes	11	0	No	0.001254	Param 1 of 2
TDS (mg/L)	GWC-2R	308.5	10/9/2019	372	Yes	11	0	No	0.001254	Param 1 of 2
TDS (mg/L)	GWC-3R	308.5	10/10/2019	109	No	11	0	No	0.001254	Param 1 of 2
TDS (mg/L)	GWC-4R	308.5	10/10/2019	247	No	11	0	No	0.001254	Param 1 of 2
TDS (mg/L)	GWC-5R	308.5	10/9/2019	1680	Yes	11	0	No	0.001254	Param 1 of 2
TDS (mg/L)	GWC-6R	308.5	10/8/2019	1050	Yes	11	0	No	0.001254	Param 1 of 2

Exceeds Limit: GWC-4R

Prediction Limit
Interwell Non-parametric

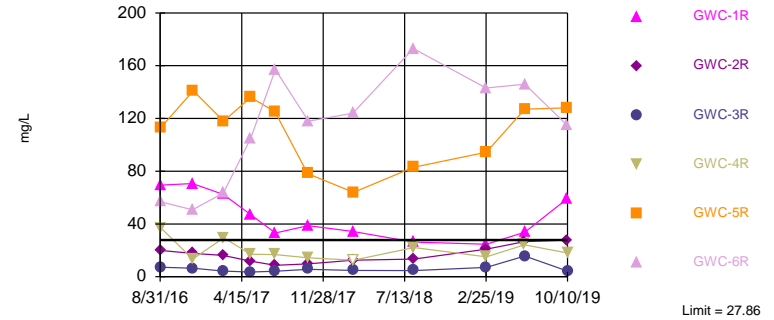


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 63.64% NDs. Annual per-constituent alpha = 0.1199. Individual comparison alpha = 0.01058 (1 of 2). Comparing 6 points to limit.

Constituent: Boron Analysis Run 2/20/2020 5:43 PM View: Appendix III Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Exceeds Limit: GWC-1R, GWC-5R, GWC-6R

Prediction Limit
Interwell Parametric

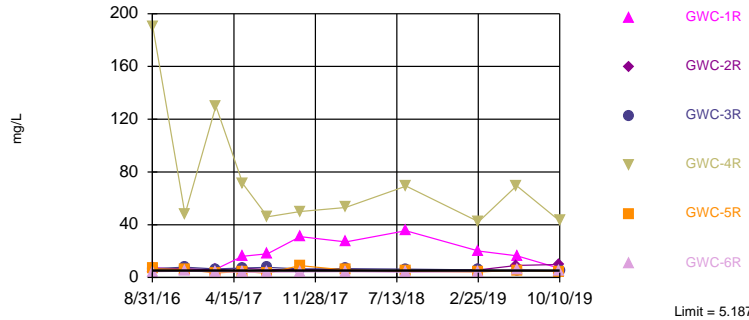


Background Data Summary (based on square root transformation): Mean=3.701, Std. Dev.=0.6508, n=11, 9.091% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8337, critical = 0.792. Kappa = 2.424 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001254. Comparing 6 points to limit.

Constituent: Calcium Analysis Run 2/20/2020 5:43 PM View: Appendix III Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Exceeds Limit: GWC-1R, GWC-2R, GWC-3R, GWC-4R

Prediction Limit
Interwell Parametric

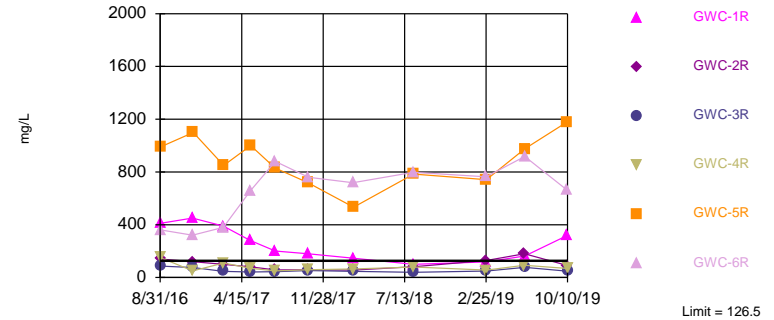


Background Data Summary: Mean=4.191, Std. Dev.=0.411, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8972, critical = 0.792. Kappa = 2.424 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001254. Comparing 6 points to limit.

Constituent: Chloride Analysis Run 2/20/2020 5:43 PM View: Appendix III Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Exceeds Limit: GWC-1R, GWC-5R, GWC-6R

Prediction Limit
Interwell Parametric

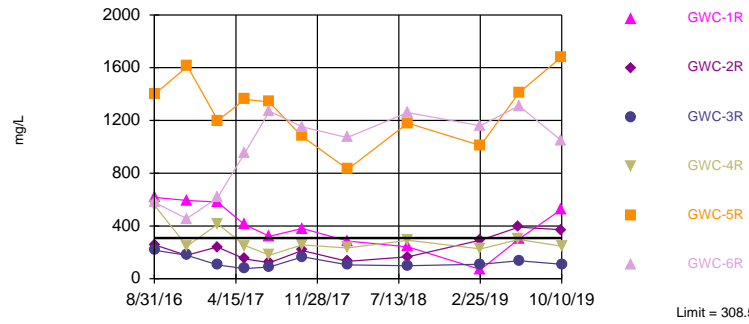


Background Data Summary: Mean=59.38, Std. Dev.=27.69, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8462, critical = 0.792. Kappa = 2.424 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001254. Comparing 6 points to limit.

Constituent: Sulfate Analysis Run 2/20/2020 5:43 PM View: Appendix III Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Exceeds Limit: GWC-1R, GWC-2R, GWC-5R, GWC-6R

Prediction Limit Interwell Parametric



Background Data Summary: Mean=177.1, Std. Dev.=54.21, n=11. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9765, critical = 0.792. Kappa = 2.424 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001254. Comparing 6 points to limit.

Constituent: TDS Analysis Run 2/20/2020 5:43 PM View: Appendix III Interwell PL
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 2/20/2020 5:45 PM View: Appendix III Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-3R	GWC-2R	GWC-1R	GWC-5R	GWC-6R	GWC-4R
8/31/2016	0.0315 (J)	0.0315 (J)	0.0305 (J)	0.0553 (J)			
9/1/2016					0.0191 (J)	0.0108 (J)	3.25
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		<0.04		0.0082 (J)		<0.04	
2/24/2017					0.0067 (J)		2.53
5/8/2017	0.0084 (J)						
5/9/2017		0.0077 (J)		0.0097 (J)			
5/10/2017			0.0179 (J)		0.0068 (J)	<0.04	1.22
7/17/2017	0.0092 (J)				0.0102 (J)		
7/18/2017		0.0073 (J)	0.0169 (J)	0.0123 (J)		0.0061 (J)	0.97
10/16/2017	<0.04				0.0066 (J)		
10/17/2017			0.0168 (J)	0.0513			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		0.0399 (J)		0.0378 (J)	0.0268 (J)		
8/6/2018	<0.04					<0.04	
8/7/2018		0.0049 (J)		0.043	0.012 (J)		
8/8/2018			0.017 (J)				1.3
2/25/2019	<0.04					<0.04	
2/26/2019		0.0053 (J)	0.017 (J)	0.062	0.033 (J)		0.75
6/12/2019	<0.04		0.013 (J)				1.5
6/13/2019		<0.04		0.057	0.03 (J)	<0.04	
10/8/2019	<0.04					<0.04	
10/9/2019			0.018 (J)	0.029 (J)	0.013 (J)		
10/10/2019		0.0061 (J)					0.78

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 2/20/2020 5:45 PM View: Appendix III Interwell PL

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-3R	GWC-2R	GWC-1R	GWC-5R	GWC-6R	GWC-4R
8/31/2016	9.31	7.23	19.9	69.4			
9/1/2016					113	56.8	37.1
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		4.25		62.4		63.5	
2/24/2017					118		29.5
5/8/2017	14.2						
5/9/2017		3.56		47.4			
5/10/2017			11.8		136	105	17
7/17/2017	14.1				125		
7/18/2017		4.16	8.69	33.2		157	16.8
10/16/2017	13.6				78.2		
10/17/2017			9.77	38.7			14.3
10/18/2017		5.67				118	
2/19/2018	<25					124	
2/20/2018			<25				<25
2/21/2018		4.76		34.3	64		
8/6/2018	11.4 (J)					173	
8/7/2018		4.7		26.2	83		
8/8/2018			13.4 (J)				22.1 (J)
2/25/2019	12.7 (J)					143	
2/26/2019		7.1	20.9 (J)	24.7 (J)	94.4		15.1 (J)
6/12/2019	18.9		26.6				24.2
6/13/2019		15.7		33.8	127	146	
10/8/2019	28.3					115	
10/9/2019			27.8	59.1	128		
10/10/2019		4.3					18

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 2/20/2020 5:45 PM View: Appendix III Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-3R	GWC-2R	GWC-1R	GWC-5R	GWC-6R	GWC-4R
8/31/2016	4	6.7	6.3	7.6			
9/1/2016					6.6	4.4	190
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		6.5		6.2		4.4	
2/24/2017					3.4		130
5/8/2017	4.2						
5/9/2017		7.2		16			
5/10/2017			7.1		4.5	3.9	71
7/17/2017	3.8				3.2		
7/18/2017		7.7	6	18		4	46
10/16/2017	4.2				9		
10/17/2017			6.1	31			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		6.7		27	5.6		
8/6/2018	3.8					3.9	
8/7/2018		6.3		35.4	4.7		
8/8/2018			4.7				69.3
2/25/2019	4.1					4.4	
2/26/2019		5.7	5.7	20	4.2		42.2
6/12/2019	4.7		9.1				69.5
6/13/2019		5		16.4	5.5	6.2	
10/8/2019	5.1					4.9	
10/9/2019			9.8	6.9	4.5		
10/10/2019		5.3					42.8

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 2/20/2020 5:45 PM View: Appendix III Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-3R	GWC-2R	GWC-1R	GWC-5R	GWC-6R	GWC-4R
8/31/2016	29	87	140	410			
9/1/2016					990	360	150
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		47		390		380	
2/24/2017					850		110
5/8/2017	60						
5/9/2017		41		280			
5/10/2017			80		1000	660	70
7/17/2017	63				830		
7/18/2017		44	57	200		880	50
10/16/2017	62				720		
10/17/2017			59	180			58
10/18/2017		53				760	
2/19/2018	64.6					718	
2/20/2018			55.9				64.6
2/21/2018		46.7		146	533		
8/6/2018	42.1					797	
8/7/2018		38.8		100	784		
8/8/2018			81.1				79.5
2/25/2019	42.1					763	
2/26/2019		49.3	129	118	742		55.8
6/12/2019	83.4		180				92.8
6/13/2019		77.1		163	976	918	
10/8/2019	128					664	
10/9/2019			91.2	318	1180		
10/10/2019		48					68.7

Prediction Limit

Constituent: TDS (mg/L) Analysis Run 2/20/2020 5:45 PM View: Appendix III Interwell PL
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)	GWC-3R	GWC-2R	GWC-1R	GWC-5R	GWC-6R	GWC-4R
8/31/2016	209	216	257	616			
9/1/2016					1400	578	553
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		105		581		614	
2/24/2017					1200		414
5/8/2017	145						
5/9/2017		77		410			
5/10/2017			149		1360	955	251
7/17/2017	185				1340		
7/18/2017		89	122	322		1270	179
10/16/2017	218				1080		
10/17/2017			214	381			256
10/18/2017		166				1150	
2/19/2018	173					1070	
2/20/2018			131				233
2/21/2018		105		285	830		
8/6/2018	158					1260	
8/7/2018		99		242	1180		
8/8/2018			166				292
2/25/2019	92					1160	
2/26/2019		109	293	69	1010		226
6/12/2019	226		391				298
6/13/2019		136		301	1410	1310	
10/8/2019	276					1050	
10/9/2019			372	526	1680		
10/10/2019		109					247

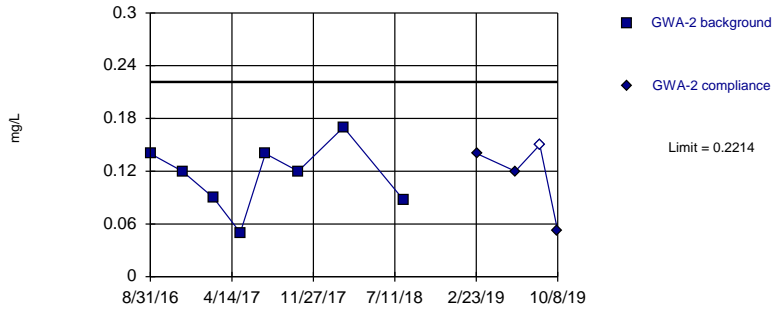
Intrawell Prediction Limit

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 2/12/2020, 7:10 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Fluoride (mg/L)	GWA-2	0.2214	n/a	10/8/2019	0.052	No	8	0	No	0.001254	Param 1 of 2
Fluoride (mg/L)	GWC-1R	0.07289	n/a	10/9/2019	0.15ND	No	8	50	sqrt(x)	0.001254	Param 1 of 2
Fluoride (mg/L)	GWC-2R	0.103	n/a	10/9/2019	0.15ND	No	8	50	No	0.001254	Param 1 of 2
Fluoride (mg/L)	GWC-3R	0.2823	n/a	10/10/2019	0.15ND	No	8	50	No	0.001254	Param 1 of 2
Fluoride (mg/L)	GWC-4R	0.2004	n/a	10/10/2019	0.15ND	No	8	50	No	0.001254	Param 1 of 2
Fluoride (mg/L)	GWC-5R	0.37	n/a	10/9/2019	0.35	No	8	62.5	n/a	0.02144	NP (NDs) 1 of 2
Fluoride (mg/L)	GWC-6R	0.3627	n/a	10/8/2019	0.15ND	No	8	50	No	0.001254	Param 1 of 2
pH (S.U.)	GWA-2	7.118	5.435	10/8/2019	6.28	No	20	0	sqrt(x)	0.000...	Param 1 of 2
pH (S.U.)	GWC-1R	5.873	4.019	10/9/2019	5.37	No	8	0	x^6	0.000...	Param 1 of 2
pH (S.U.)	GWC-2R	6.8	4.35	10/9/2019	5.39	No	15	0	n/a	0.01507	NP (normality) 1 of 2
pH (S.U.)	GWC-3R	5.632	4.007	10/10/2019	5.4	No	8	0	x^5	0.000...	Param 1 of 2
pH (S.U.)	GWC-4R	6.334	4.763	10/10/2019	5.55	No	9	0	No	0.000...	Param 1 of 2
pH (S.U.)	GWC-5R	5.759	4.756	1/21/2020	4.99	No	8	0	No	0.000...	Param 1 of 2
pH (S.U.)	GWC-6R	6.719	5.14	10/8/2019	5.91	No	18	0	No	0.000...	Param 1 of 2

Within Limit

Prediction Limit
Intrawell Parametric

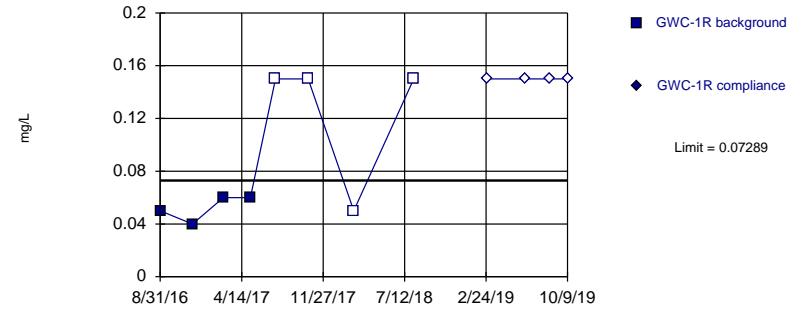


Background Data Summary: Mean=0.1146, Std. Dev.=0.03772, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9666, critical = 0.749. Kappa = 2.831 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: Fluoride Analysis Run 2/12/2020 7:09 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

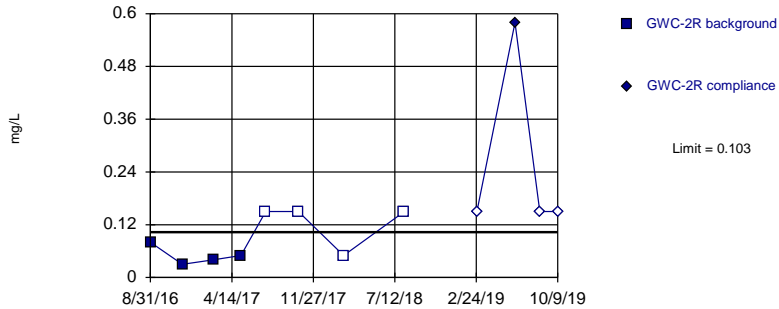


Background Data Summary (based on square root transformation) (after Kaplan-Meier Adjustment): Mean=0.2201, Std. Dev.=0.01762, n=8, 50% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7605, critical = 0.749. Kappa = 2.831 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: Fluoride Analysis Run 2/12/2020 7:09 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

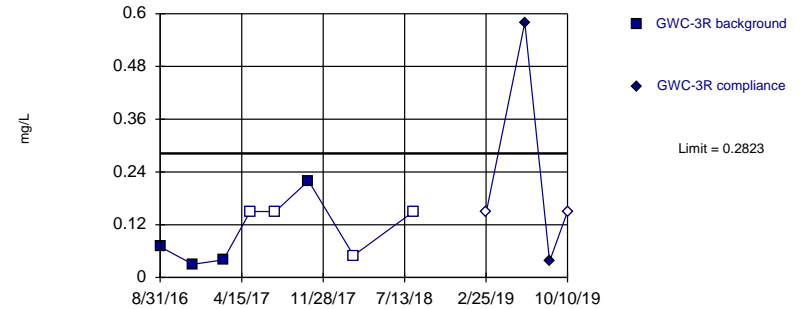


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.05, Std. Dev.=0.01871, n=8, 50% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7947, critical = 0.749. Kappa = 2.831 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: Fluoride Analysis Run 2/12/2020 7:09 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

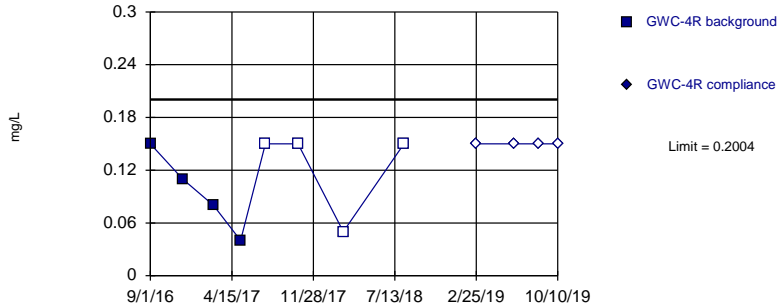


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.08133, Std. Dev.=0.07098, n=8, 50% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8841, critical = 0.749. Kappa = 2.831 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: Fluoride Analysis Run 2/12/2020 7:09 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

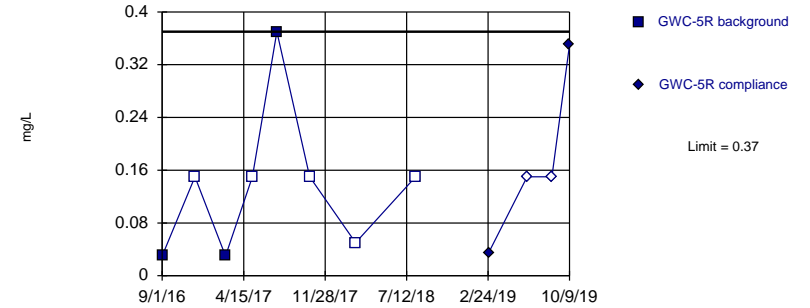


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.088, Std. Dev.=0.0397, n=8, 50% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8033, critical = 0.749. Kappa = 2.831 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: Fluoride Analysis Run 2/12/2020 7:09 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Non-parametric

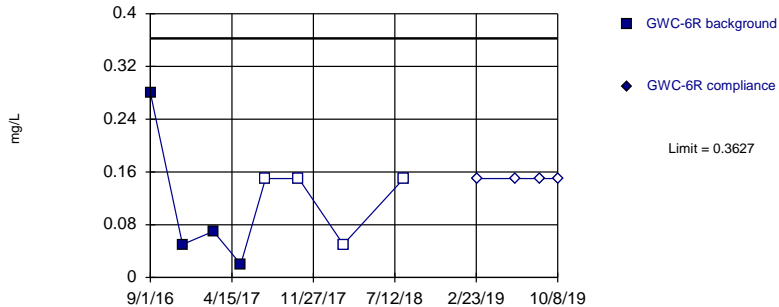


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 8 background values. 62.5% NDs. Well-constituent pair annual alpha = 0.04242. Individual comparison alpha = 0.02144 (1 of 2).

Constituent: Fluoride Analysis Run 2/12/2020 7:09 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limit

Prediction Limit
Intrawell Parametric

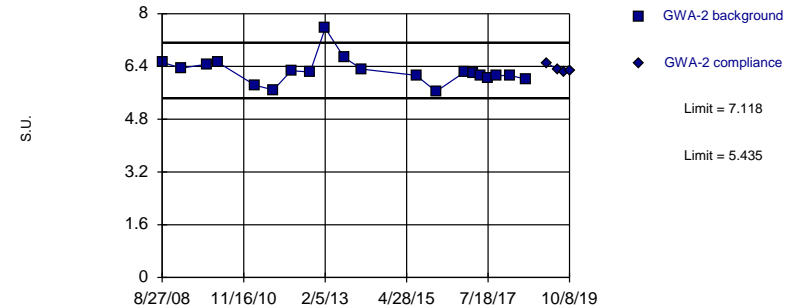


Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.09333, Std. Dev.=0.09513, n=8, 50% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8826, critical = 0.749. Kappa = 2.831 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: Fluoride Analysis Run 2/12/2020 7:09 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limits

Prediction Limit
Intrawell Parametric

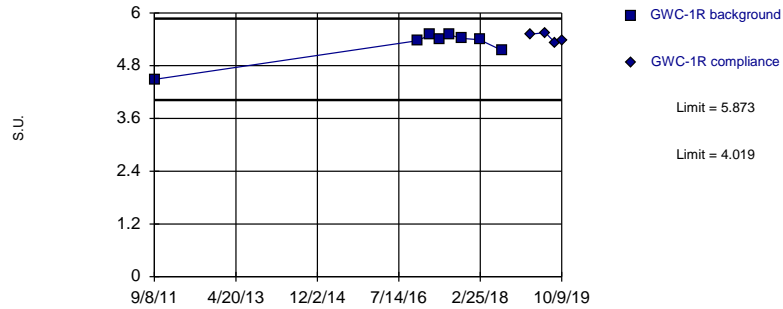


Background Data Summary (based on square root transformation): Mean=2.5, Std. Dev.=0.07984, n=20. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8832, critical = 0.868. Kappa = 2.108 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: pH Analysis Run 2/12/2020 7:09 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limits

Prediction Limit
Intrawell Parametric

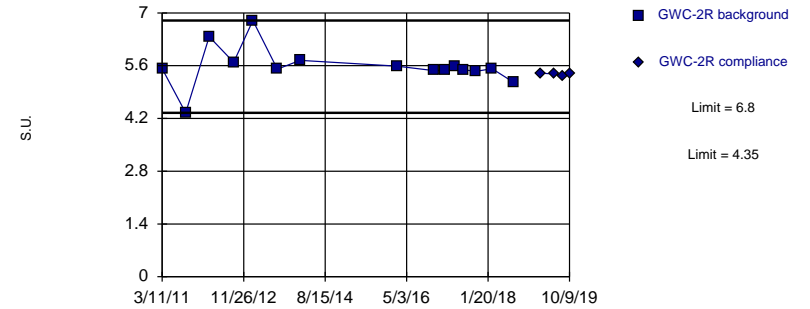


Background Data Summary (based on x^6 transformation): Mean=22615, Std. Dev.=6500, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7595, critical = 0.749. Kappa = 2.831 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: pH Analysis Run 2/12/2020 7:09 PM View: Time Series
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limits

Prediction Limit
Intrawell Non-parametric

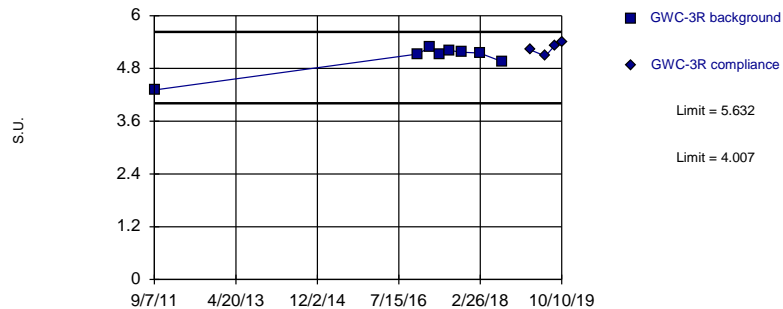


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 15 background values. Well-constituent pair annual alpha = 0.03002. Individual comparison alpha = 0.01507 (1 of 2).

Constituent: pH Analysis Run 2/12/2020 7:09 PM View: Time Series
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limits

Prediction Limit
Intrawell Parametric

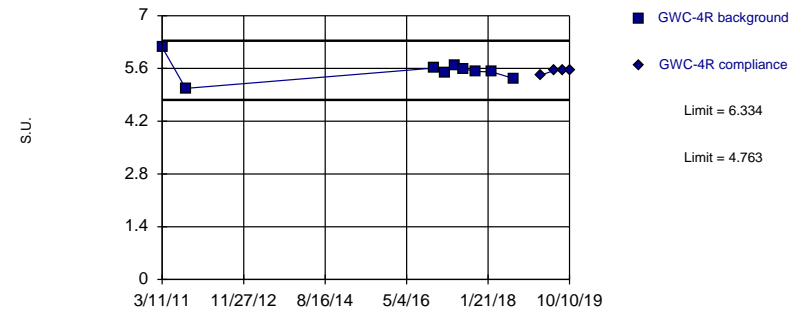


Background Data Summary (based on x^5 transformation): Mean=3349, Std. Dev.=817.8, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7648, critical = 0.749. Kappa = 2.831 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: pH Analysis Run 2/12/2020 7:09 PM View: Time Series
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limits

Prediction Limit
Intrawell Parametric

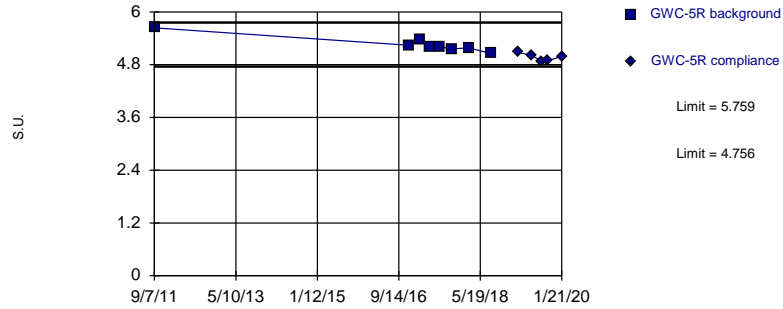


Background Data Summary: Mean=5.549, Std. Dev.=0.292, n=9. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9166, critical = 0.764. Kappa = 2.69 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: pH Analysis Run 2/12/2020 7:09 PM View: Time Series
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limits

Prediction Limit
Intrawell Parametric

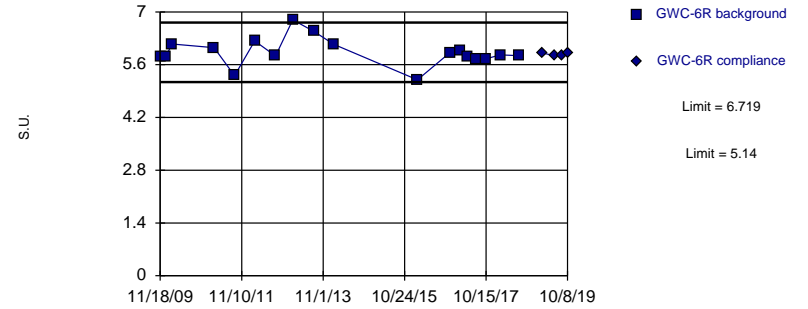


Background Data Summary: Mean=5.258, Std. Dev.=0.177, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.837, critical = 0.749. Kappa = 2.831 (c=7, w=6, 1 of 2, event alpha = 0.05132). Report alpha = 0.001254.

Constituent: pH Analysis Run 2/12/2020 7:09 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Within Limits

Prediction Limit
Intrawell Parametric



Background Data Summary: Mean=5.929, Std. Dev.=0.3662, n=18. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.929, 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 2/12/2020 7:09 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Prediction Limit

Constituent: Fluoride, pH Analysis Run 2/12/2020 7:10 PM View: Time Series

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-4R	GWC-4R	GWC-5R	GWC-5R	GWC-6R	GWC-6R	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	
9/1/2016	0.15 (J)		0.03 (J)		0.28 (J)			
11/28/2016							6.23	
11/29/2016					0.05 (J)			
11/30/2016	0.11 (J)							
12/1/2016			<0.3					
2/22/2017							6.21	
2/23/2017					0.07 (J)			
2/24/2017	0.08 (J)		0.03 (J)					
5/8/2017							6.12	
5/10/2017	0.04 (J)		<0.3		0.02 (J)			
7/17/2017			0.37				6.03	
7/18/2017	<0.3				<0.3			
10/16/2017			<0.3				6.12	
10/17/2017	<0.3							
10/18/2017					<0.3			
2/19/2018					<0.1		6.13	
2/20/2018	<0.1							
2/21/2018			<0.1					
8/6/2018					<0.3		6.01	
8/7/2018			<0.3					
8/8/2018	<0.3							
2/25/2019						<0.3		6.51
2/26/2019		<0.3		0.035 (J)				
6/12/2019		<0.3						6.3
6/13/2019				<0.3		<0.3		
8/19/2019		<0.3						6.23
8/20/2019						<0.3		
8/21/2019				<0.3				
10/8/2019						<0.3		6.28
10/9/2019				0.35				
10/10/2019		<0.3						

Prediction Limit

Constituent: pH Analysis Run 2/12/2020 7:10 PM View: Time Series
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-1R	GWC-2R	GWC-2R	GWC-3R	GWC-3R	GWC-4R	GWC-4R
3/11/2011			5.52				6.16	
9/7/2011			4.35		4.31		5.07	
9/8/2011	4.49							
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					
11/29/2016	5.37							
11/30/2016					5.13		5.61	
2/22/2017			5.48					
2/23/2017	5.5				5.28			
2/24/2017							5.47	
5/9/2017	5.41				5.12			
5/10/2017			5.6				5.68	
7/18/2017	5.5		5.49		5.21		5.59	
10/17/2017	5.42		5.45				5.52	
10/18/2017					5.17			
2/20/2018			5.52				5.51	
2/21/2018	5.39				5.15			
8/7/2018	5.14				4.95			
8/8/2018			5.15				5.33	
2/26/2019		5.52		5.4		5.22		5.42
6/12/2019				5.38				5.54
6/13/2019		5.55				5.08		
8/19/2019								5.56
8/20/2019		5.33		5.33				
8/21/2019						5.32		
10/9/2019		5.37		5.39				
10/10/2019						5.4		5.55

Prediction Limit

Constituent: pH Analysis Run 2/12/2020 7:10 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-5R	GWC-5R	GWC-6R	GWC-6R
11/18/2009			5.82	
1/5/2010			5.8	
3/3/2010			6.15	
3/10/2011			6.05	
9/7/2011	5.64			
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	
12/1/2016	5.24			
2/23/2017			5.97	
2/24/2017	5.37			
5/10/2017	5.2		5.82	
7/17/2017	5.21			
7/18/2017			5.76	
10/16/2017	5.16			
10/18/2017			5.76	
2/19/2018			5.86	
2/21/2018	5.18			
8/6/2018			5.84	
8/7/2018	5.06			
2/25/2019				5.91
2/26/2019		5.08		
6/13/2019		5.01		5.84
8/20/2019				5.85
8/21/2019		4.88		
10/8/2019				5.91
10/9/2019		4.89		
1/21/2020		4.99		

Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 2/12/2020, 7:33 PM

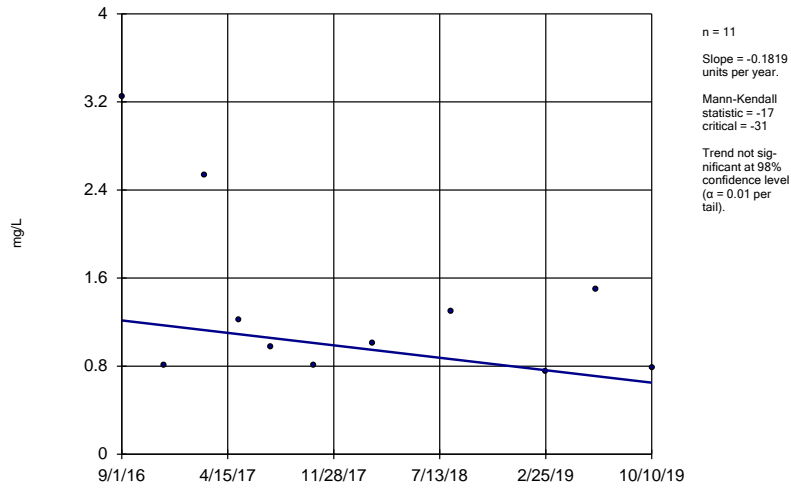
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Chloride (mg/L)	GWC-3R	-0.722	-35	-31	Yes	11	0	n/a	n/a	0.02	NP
TDS (mg/L)	GWC-1R	-134.8	-33	-31	Yes	11	0	n/a	n/a	0.02	NP

Trend Test

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 2/12/2020, 7:33 PM

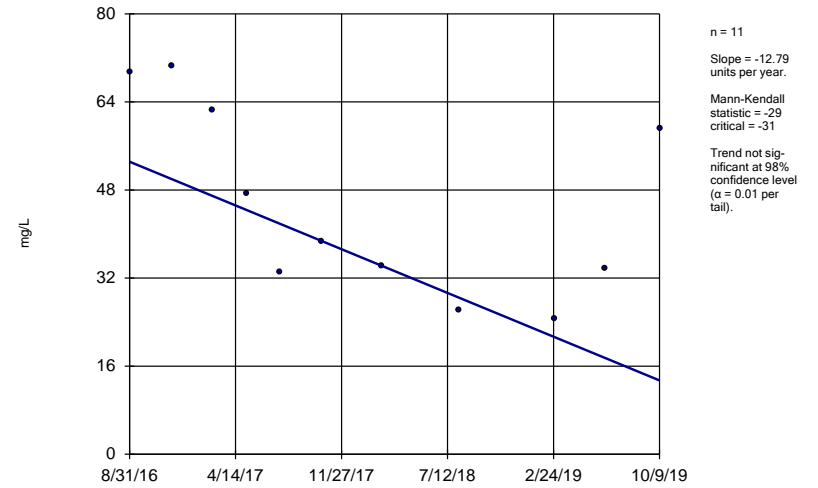
<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	GWC-4R	-0.1819	-17	-31	No	11	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWC-1R	-12.79	-29	-31	No	11	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWC-5R	-4.3	-3	-31	No	11	0	n/a	n/a	0.02	NP
Calcium (mg/L)	GWC-6R	24.33	29	31	No	11	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWC-1R	4.432	17	31	No	11	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWC-2R	0.1006	2	31	No	11	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWC-3R	-0.722	-35	-31	Yes	11	0	n/a	n/a	0.02	NP
Chloride (mg/L)	GWC-4R	-6.297	-19	-31	No	11	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWC-1R	-97.72	-31	-31	No	11	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWC-5R	-48.98	-9	-31	No	11	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	GWC-6R	142	29	31	No	11	0	n/a	n/a	0.02	NP
TDS (mg/L)	GWC-1R	-134.8	-33	-31	Yes	11	0	n/a	n/a	0.02	NP
TDS (mg/L)	GWC-2R	41.81	13	31	No	11	0	n/a	n/a	0.02	NP
TDS (mg/L)	GWC-5R	-68.65	-7	-31	No	11	0	n/a	n/a	0.02	NP
TDS (mg/L)	GWC-6R	208.2	29	31	No	11	0	n/a	n/a	0.02	NP

Sen's Slope Estimator GWC-4R



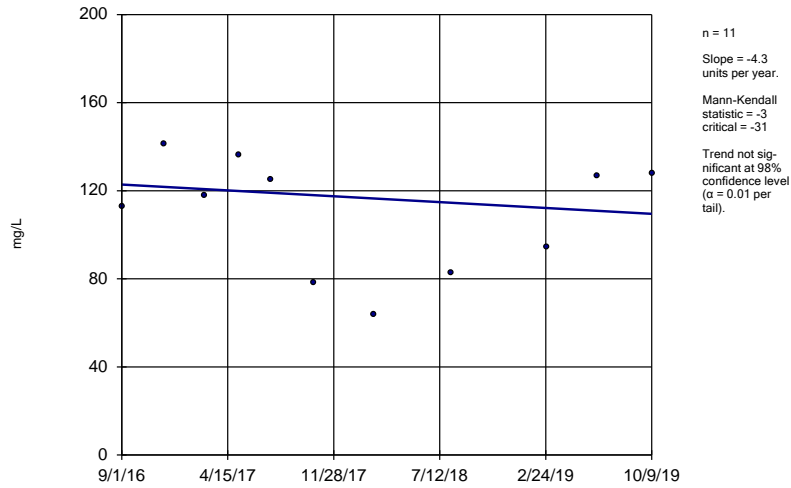
Constituent: Boron Analysis Run 2/12/2020 7:31 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator GWC-1R



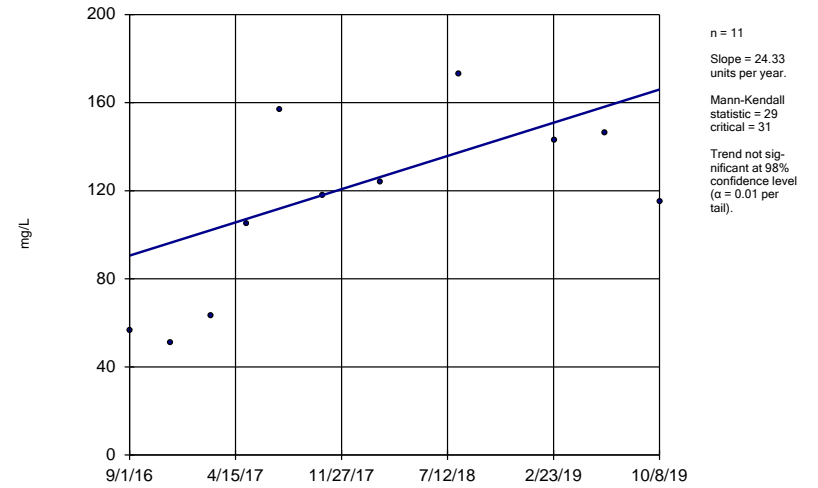
Constituent: Calcium Analysis Run 2/12/2020 7:31 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator GWC-5R



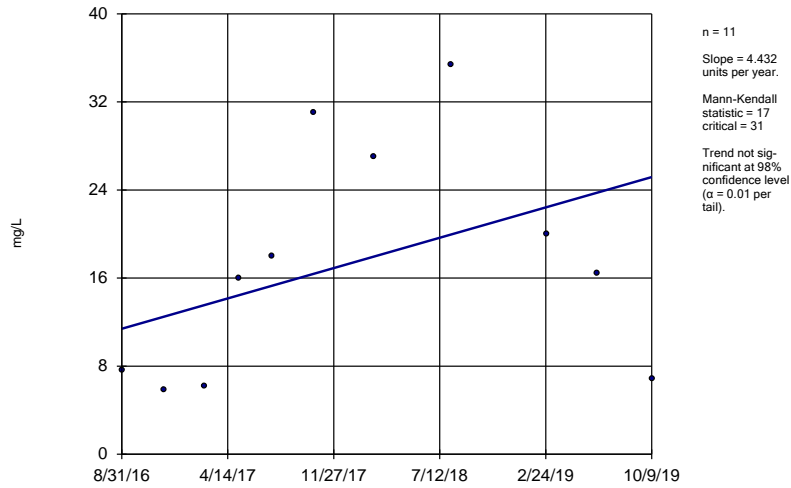
Constituent: Calcium Analysis Run 2/12/2020 7:31 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator GWC-6R



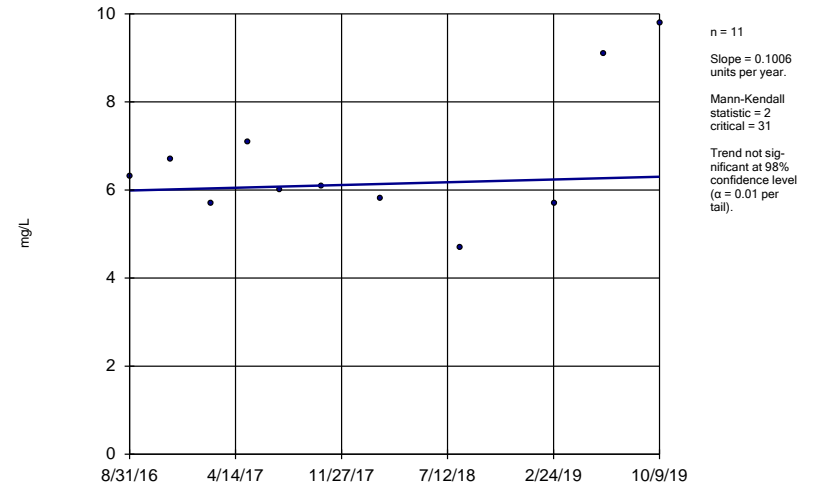
Constituent: Calcium Analysis Run 2/12/2020 7:31 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator GWC-1R



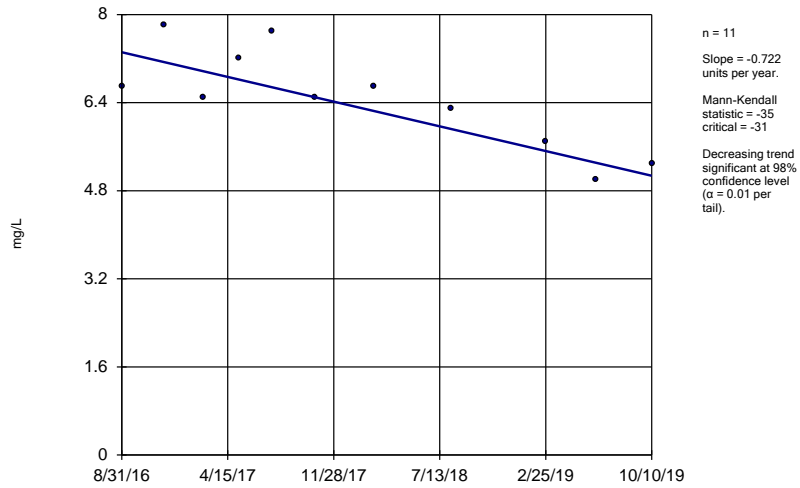
Constituent: Chloride Analysis Run 2/12/2020 7:31 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator GWC-2R



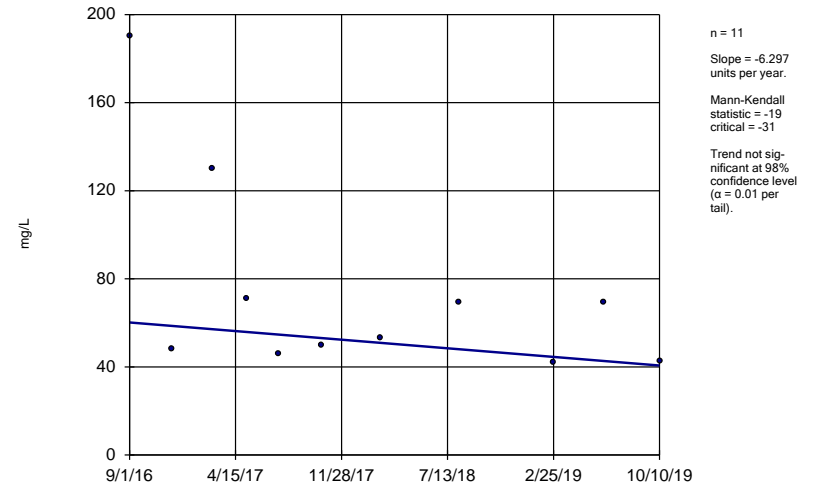
Constituent: Chloride Analysis Run 2/12/2020 7:31 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator GWC-3R



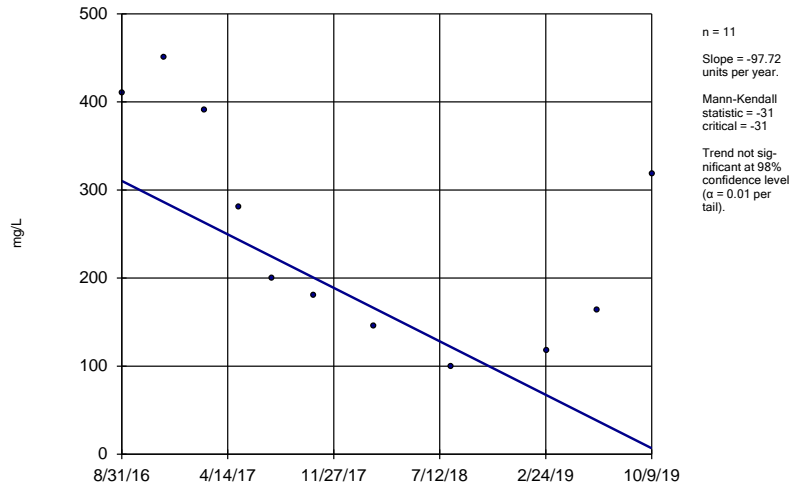
Constituent: Chloride Analysis Run 2/12/2020 7:31 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator GWC-4R



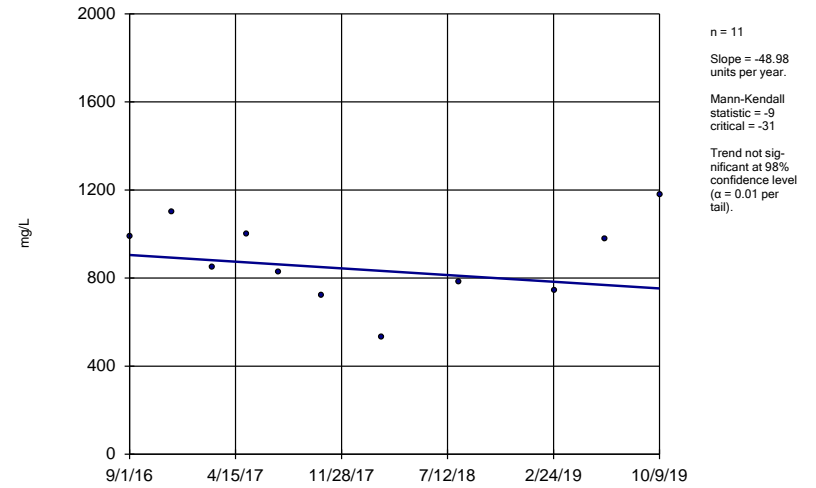
Constituent: Chloride Analysis Run 2/12/2020 7:31 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator GWC-1R



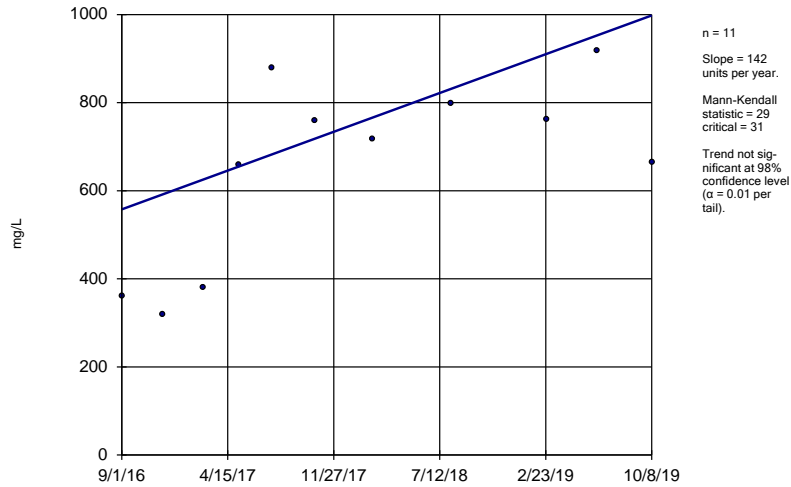
Constituent: Sulfate Analysis Run 2/12/2020 7:31 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator GWC-5R



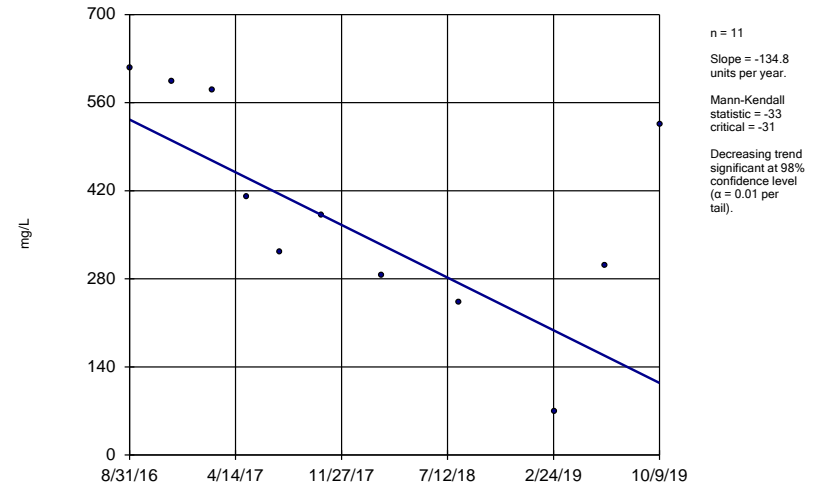
Constituent: Sulfate Analysis Run 2/12/2020 7:31 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator GWC-6R



Constituent: Sulfate Analysis Run 2/12/2020 7:31 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

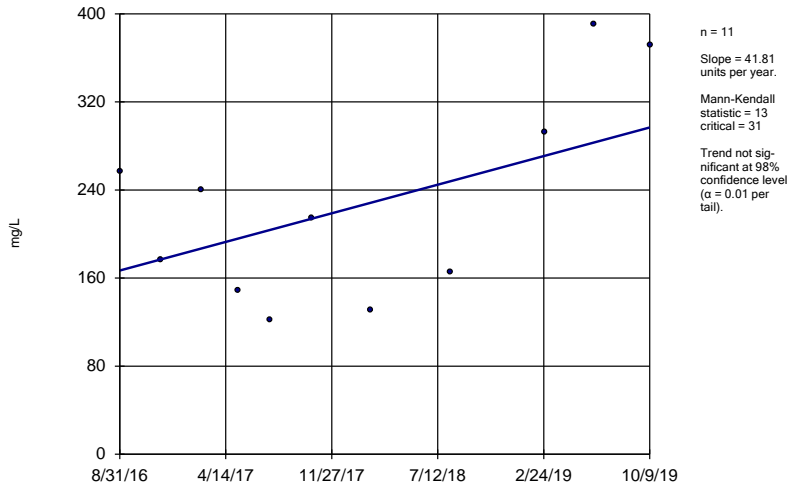
Sen's Slope Estimator GWC-1R



Constituent: TDS Analysis Run 2/12/2020 7:31 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

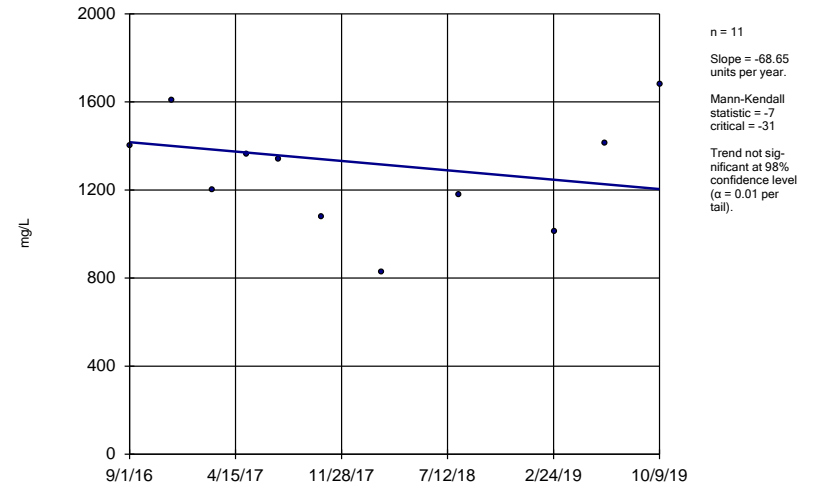
GWC-2R



Constituent: TDS Analysis Run 2/12/2020 7:31 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

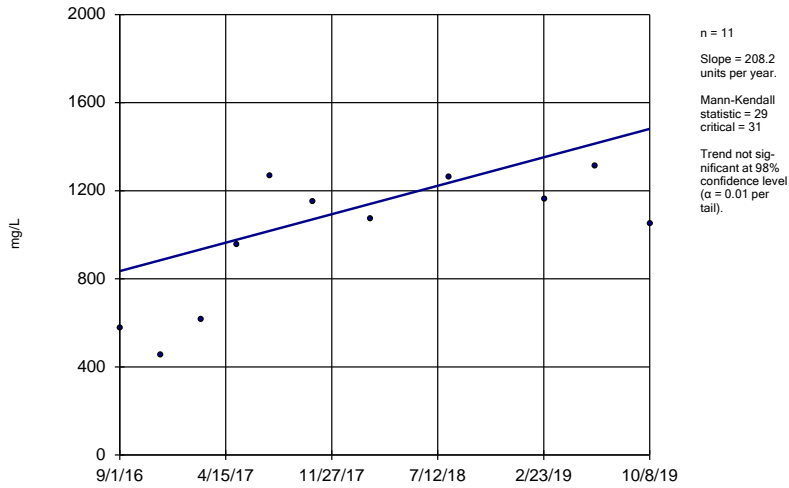
GWC-5R



Constituent: TDS Analysis Run 2/12/2020 7:31 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Sen's Slope Estimator

GWC-6R



Constituent: TDS Analysis Run 2/12/2020 7:31 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

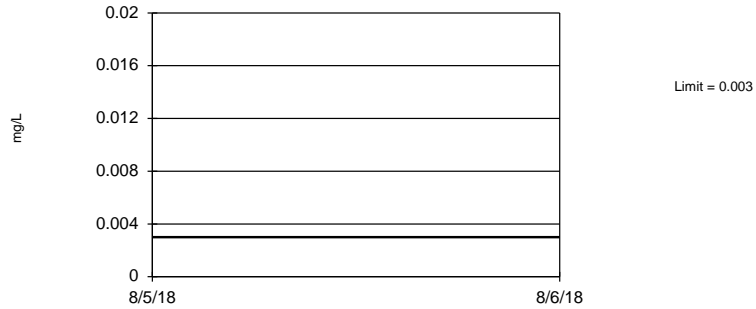
Appendix I, II, and IV Confidence Intervals (October 2019)

Upper Tolerance Limit

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/11/2020, 11:59 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	n/a	0.003	n/a	n/a	n/a	27	96.3	n/a	0.2503	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	34	100	n/a	0.1748	NP Inter(NDs)
Barium (mg/L)	n/a	0.08268	n/a	n/a	n/a	34	0	No	0.05	Inter
Beryllium (mg/L)	n/a	0.003	n/a	n/a	n/a	33	100	n/a	0.184	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.001	n/a	n/a	n/a	27	100	n/a	0.2503	NP Inter(NDs)
Chromium (mg/L)	n/a	0.01	n/a	n/a	n/a	34	70.59	n/a	0.1748	NP Inter(normal...)
Cobalt (mg/L)	n/a	0.013	n/a	n/a	n/a	34	44.12	n/a	0.1748	NP Inter(normal...)
Combined Radium 226 + 228 (pCi/L)	n/a	2.723	n/a	n/a	n/a	8	0	No	0.05	Inter
Copper (mg/L)	n/a	0.025	n/a	n/a	n/a	29	48.28	n/a	0.2259	NP Inter(normal...)
Fluoride (mg/L)	n/a	0.2349	n/a	n/a	n/a	8	0	No	0.05	Inter
Lead (mg/L)	n/a	0.015	n/a	n/a	n/a	34	91.18	n/a	0.1748	NP Inter(NDs)
Mercury (mg/L)	n/a	0.0005	n/a	n/a	n/a	27	96.3	n/a	0.2503	NP Inter(NDs)
Nickel (mg/L)	n/a	0.021	n/a	n/a	n/a	29	31.03	n/a	0.2259	NP Inter(normal...)
Selenium (mg/L)	n/a	0.015	n/a	n/a	n/a	34	97.06	n/a	0.1748	NP Inter(NDs)
Silver (mg/L)	n/a	0.01	n/a	n/a	n/a	22	100	n/a	0.3235	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	26	88.46	n/a	0.2635	NP Inter(NDs)
Vanadium (mg/L)	n/a	0.01	n/a	n/a	n/a	24	83.33	n/a	0.292	NP Inter(NDs)
Zinc (mg/L)	n/a	0.02032	n/a	n/a	n/a	30	6.667	ln(x)	0.05	Inter
Molybdenum (mg/L)	n/a	0.01	n/a	n/a	n/a	8	100	n/a	0.6634	NP Inter(NDs)
Lithium (mg/L)	n/a	0.05	n/a	n/a	n/a	7	71.43	n/a	0.6983	NP Inter(normal...)

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 27 background values. 96.3% NDs. 84.18% coverage at alpha=0.01; 89.65% coverage at alpha=0.05; 97.46% coverage at alpha=0.5. Report alpha = 0.2503.

Constituent: Antimony Analysis Run 3/11/2020 11:44 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

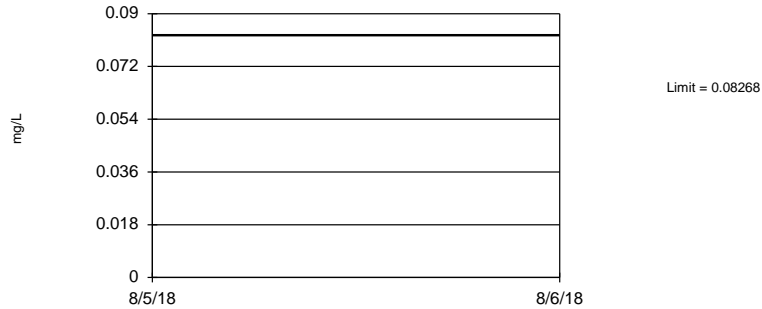
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 87.3% coverage at alpha=0.01; 91.6% coverage at alpha=0.05; 97.85% coverage at alpha=0.5. Report alpha = 0.1748.

Constituent: Arsenic Analysis Run 3/11/2020 11:44 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tolerance Limit
Interwell Parametric



95% coverage. Background Data Summary: Mean=0.04354, Std. Dev.=0.01798, n=34. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9146, critical = 0.908. Report alpha = 0.05.

Constituent: Barium Analysis Run 3/11/2020 11:44 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

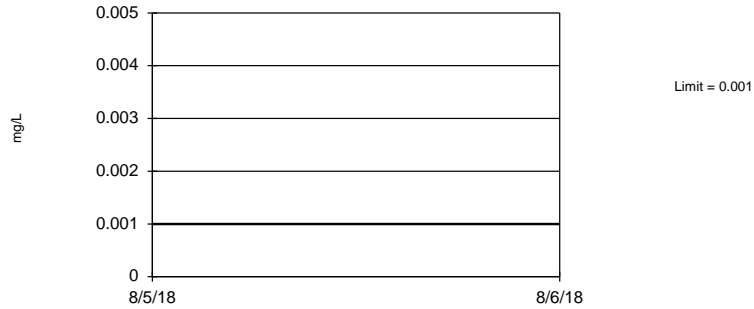
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 86.91% coverage at alpha=0.01; 91.21% coverage at alpha=0.05; 97.85% coverage at alpha=0.5. Report alpha = 0.184.

Constituent: Beryllium Analysis Run 3/11/2020 11:44 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 84.18% coverage at alpha=0.01; 89.65% coverage at alpha=0.05; 97.46% coverage at alpha=0.5. Report alpha = 0.2503.

Constituent: Cadmium Analysis Run 3/11/2020 11:44 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

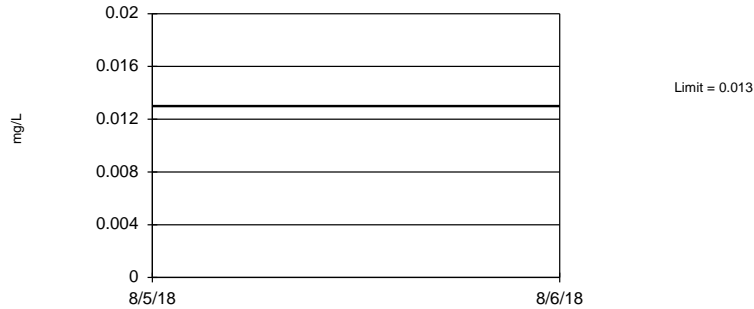
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 34 background values. 70.59% NDs. 87.3% coverage at alpha=0.01; 91.6% coverage at alpha=0.05; 97.85% coverage at alpha=0.5. Report alpha = 0.1748.

Constituent: Chromium Analysis Run 3/11/2020 11:44 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

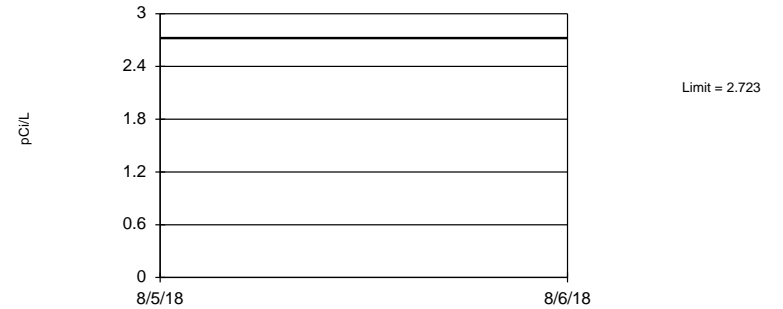
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 34 background values. 44.12% NDs. 87.3% coverage at alpha=0.01; 91.6% coverage at alpha=0.05; 97.85% coverage at alpha=0.5. Report alpha = 0.1748.

Constituent: Cobalt Analysis Run 3/11/2020 11:44 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

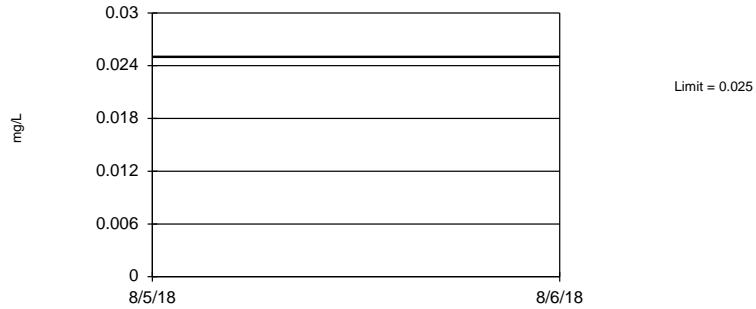
Tolerance Limit
Interwell Parametric



95% coverage. Background Data Summary: Mean=0.8846, Std. Dev.=0.5767, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8415, critical = 0.749. Report alpha = 0.05.

Constituent: Combined Radium 226 + 228 Analysis Run 3/11/2020 11:44 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

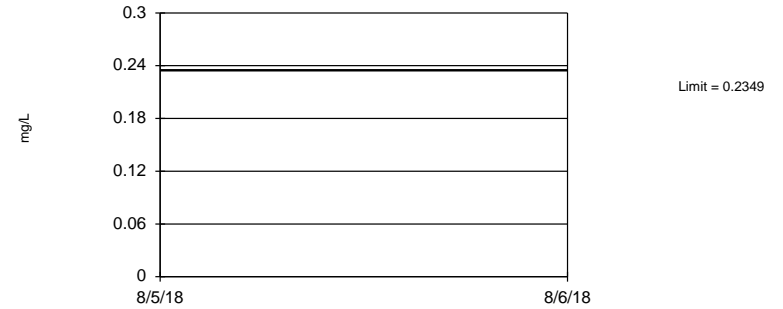
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance 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. 48.28% NDs. 85.35% coverage at alpha=0.01; 90.04% coverage at alpha=0.05; 97.46% coverage at alpha=0.5. Report alpha = 0.2259.

Constituent: Copper Analysis Run 3/11/2020 11:44 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

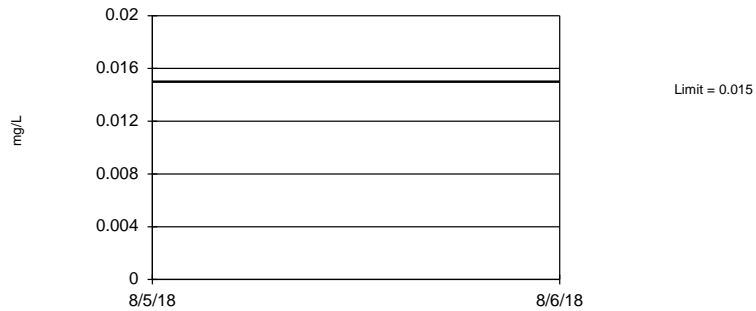
Tolerance Limit
Interwell Parametric



95% coverage. Background Data Summary: Mean=0.1146, Std. Dev.=0.03772, n=8. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9666, critical = 0.749. Report alpha = 0.05.

Constituent: Fluoride Analysis Run 3/11/2020 11:44 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

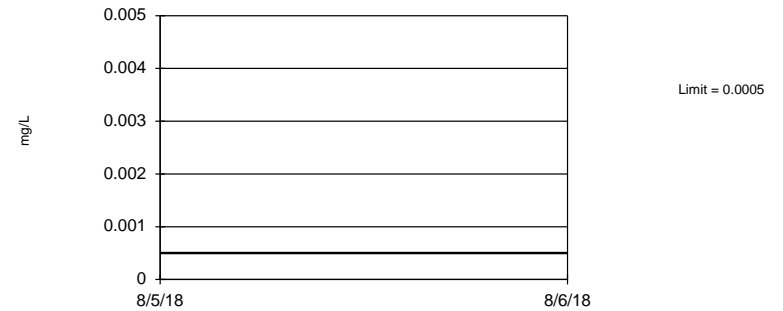
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 34 background values. 91.18% NDs. 87.3% coverage at alpha=0.01; 91.6% coverage at alpha=0.05; 97.85% coverage at alpha=0.5. Report alpha = 0.1748.

Constituent: Lead Analysis Run 3/11/2020 11:44 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

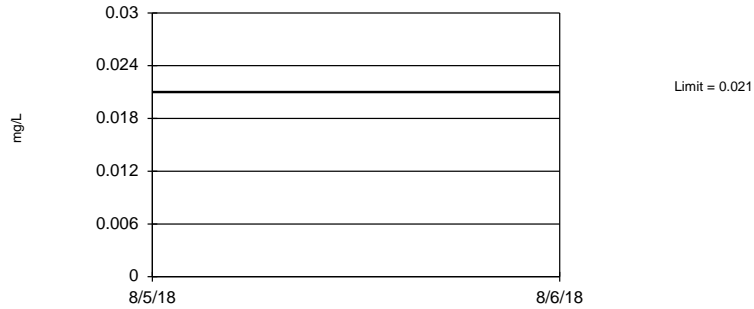
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 27 background values. 96.3% NDs. 84.18% coverage at alpha=0.01; 89.65% coverage at alpha=0.05; 97.46% coverage at alpha=0.5. Report alpha = 0.2503.

Constituent: Mercury Analysis Run 3/11/2020 11:44 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

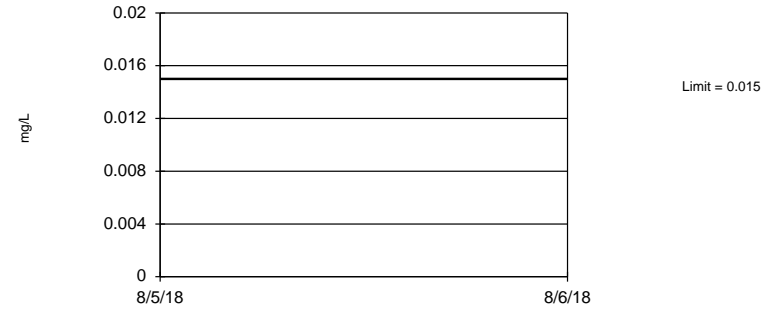
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance 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. 31.03% NDs. 85.35% coverage at alpha=0.01; 90.04% coverage at alpha=0.05; 97.46% coverage at alpha=0.5. Report alpha = 0.2259.

Constituent: Nickel Analysis Run 3/11/2020 11:44 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 34 background values. 97.06% NDs. 87.3% coverage at alpha=0.01; 91.6% coverage at alpha=0.05; 97.85% coverage at alpha=0.5. Report alpha = 0.1748.

Constituent: Selenium Analysis Run 3/11/2020 11:44 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

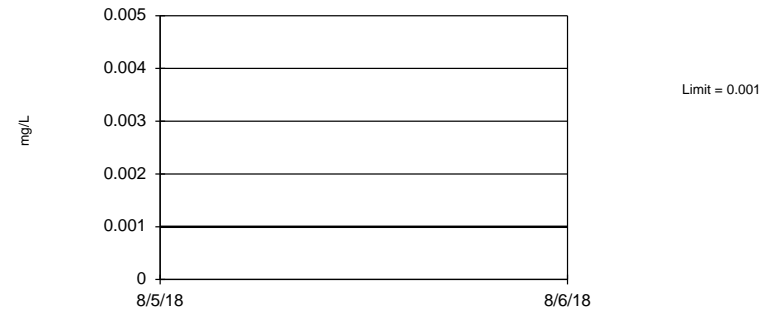
Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 81.05% coverage at alpha=0.01; 87.3% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.3235.

Constituent: Silver Analysis Run 3/11/2020 11:44 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tolerance Limit
Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 26 background values. 88.46% NDs. 83.79% coverage at alpha=0.01; 89.26% coverage at alpha=0.05; 97.46% coverage at alpha=0.5. Report alpha = 0.2635.

Constituent: Thallium Analysis Run 3/11/2020 11:44 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

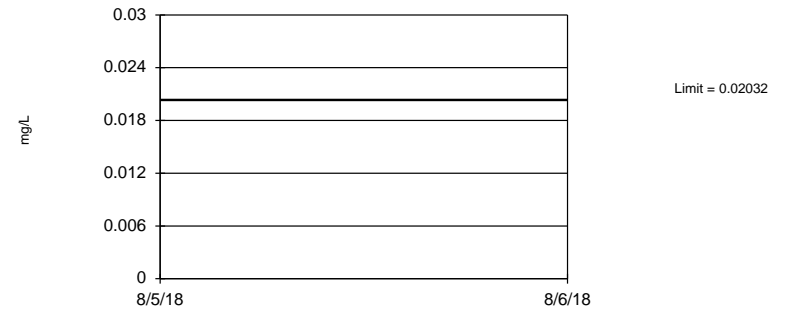
Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. Limit is highest of 24 background values. 83.33% NDs. 82.62% coverage at alpha=0.01; 88.09% coverage at alpha=0.05; 97.07% coverage at alpha=0.5. Report alpha = 0.292.

Constituent: Vanadium Analysis Run 3/11/2020 11:44 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tolerance Limit Interwell Parametric



95% coverage. Background Data Summary (based on natural log transformation): Mean=-5.168, Std. Dev.=0.573, n=30, 6.667% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9264, critical = 0.9. Report alpha = 0.05.

Constituent: Zinc Analysis Run 3/11/2020 11:44 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 75%. All background values were censored; limit is most recent reporting limit. 56.05% coverage at alpha=0.01; 68.95% coverage at alpha=0.05; 91.6% coverage at alpha=0.5. Report alpha = 0.6634.

Constituent: Molybdenum Analysis Run 3/11/2020 11:49 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tolerance Limit Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 7 background values. 71.43% NDs. 51.76% coverage at alpha=0.01; 65.04% coverage at alpha=0.05; 90.43% coverage at alpha=0.5. Report alpha = 0.6983.

Constituent: Lithium Analysis Run 3/11/2020 11:56 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Tolerance Limit

Constituent: Antimony (mg/L) Analysis Run 3/11/2020 11:45 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)
5/1/2007	<0.003
9/11/2007	<0.003
3/20/2008	<0.003
8/27/2008	<0.003
3/3/2009	<0.003
11/18/2009	<0.003
3/3/2010	<0.003
9/8/2010	<0.003
3/10/2011	<0.003
9/8/2011	<0.003
3/5/2012	<0.003
9/10/2012	<0.003
2/6/2013	<0.003
8/12/2013	<0.003
2/5/2014	<0.003
8/5/2014	<0.003
2/4/2015	<0.003
8/3/2015	<0.003
2/16/2016	<0.003
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

Tolerance Limit

Constituent: Arsenic (mg/L) Analysis Run 3/11/2020 11:45 AM View: Upper Tolerance Limit

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)
9/9/1998	<0.005	
9/20/1999	<0.005	
9/12/2001	<0.005	
9/3/2002	<0.005	
7/29/2003	<0.005	
12/5/2003	<0.005	
9/22/2004	<0.005	
5/1/2007		<0.005
9/11/2007		<0.005
3/20/2008		<0.005
8/27/2008		<0.005
3/3/2009		<0.005
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

Tolerance Limit

Constituent: Barium (mg/L) Analysis Run 3/11/2020 11:45 AM View: Upper Tolerance Limit

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)
9/9/1998	0.006	
9/20/1999	0.015	
9/12/2001	0.018	
9/3/2002	0.023	
7/29/2003	0.02	
12/5/2003	0.012	
9/22/2004	0.03	
5/1/2007		0.032
9/11/2007		0.017
3/20/2008		0.025
8/27/2008		0.041
3/3/2009		0.053
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

Tolerance Limit

Constituent: Beryllium (mg/L) Analysis Run 3/11/2020 11:45 AM View: Upper Tolerance Limit

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)
9/9/1998	<0.003	
9/20/1999	<0.003	
9/12/2001	<0.003	
9/3/2002	<0.003	
7/29/2003	<0.003	
12/5/2003	<0.003	
9/22/2004	<0.003	
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		<0.003
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

Tolerance Limit

Constituent: Cadmium (mg/L) Analysis Run 3/11/2020 11:45 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)
5/1/2007	<0.001
9/11/2007	<0.001
3/20/2008	<0.001
8/27/2008	<0.001
3/3/2009	<0.001
11/18/2009	<0.001
3/3/2010	<0.001
9/8/2010	<0.001
3/10/2011	<0.001
9/8/2011	<0.001
3/5/2012	<0.001
9/10/2012	<0.001
2/6/2013	<0.001
8/12/2013	<0.001
2/5/2014	<0.001
8/5/2014	<0.001
2/4/2015	<0.001
8/3/2015	<0.001
2/16/2016	<0.001
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

Tolerance Limit

Constituent: Chromium (mg/L) Analysis Run 3/11/2020 11:45 AM View: Upper Tolerance Limit

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)
9/9/1998	<0.01	
9/20/1999	0.01	
9/12/2001	<0.01	
9/3/2002	<0.01	
7/29/2003	<0.01	
12/5/2003	<0.01	
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		<0.01
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		0.0059
8/5/2014		<0.01
2/4/2015		<0.01
8/3/2015		0.0011 (J)
2/16/2016		<0.01
8/31/2016		<0.01
11/28/2016		<0.01
2/22/2017		<0.01
5/8/2017		<0.01
7/17/2017		<0.01
10/16/2017		<0.01
2/19/2018		<0.01
8/6/2018		<0.01

Tolerance Limit

Constituent: Cobalt (mg/L) Analysis Run 3/11/2020 11:45 AM View: Upper Tolerance Limit

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)
9/9/1998	0.013	
9/20/1999	<0.01	
9/12/2001	0.0024	
9/3/2002	<0.01	
7/29/2003	0.002	
12/5/2003	<0.01	
9/22/2004	<0.01	
5/1/2007		0.0067
9/11/2007		<0.01
3/20/2008		<0.01
8/27/2008		<0.01
3/3/2009		<0.01
11/18/2009		<0.01
3/3/2010		0.0027
9/8/2010		0.007
3/10/2011		<0.01
9/8/2011		<0.01
3/5/2012		0.0032
9/10/2012		<0.01
2/6/2013		<0.01
8/12/2013		0.0045
2/5/2014		<0.01
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		<0.01
8/6/2018		0.003 (J)

Tolerance Limit

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 3/11/2020 11:45 AM View: Upper Tolerance Limit

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)
8/31/2016	1.2
11/28/2016	0.264 (U)
2/22/2017	1.06 (U)
5/8/2017	0.187 (U)
7/17/2017	1.42
10/16/2017	1.17
2/19/2018	1.58 (D)
8/6/2018	0.196 (U)

Tolerance Limit

Constituent: Copper (mg/L) Analysis Run 3/11/2020 11:45 AM View: Upper Tolerance Limit

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)
9/9/1998	<0.025	
9/20/1999	<0.025	
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		<0.025
3/20/2008		<0.025
8/27/2008		0.0074
3/3/2009		<0.025
11/18/2009		0.0029
3/3/2010		0.005
9/8/2010		<0.025
3/10/2011		0.0029
9/8/2011		<0.025
3/5/2012		<0.025
9/10/2012		<0.025
2/6/2013		<0.025
8/12/2013		<0.025
2/5/2014		<0.025
8/5/2014		0.005
2/4/2015		0.0025 (J)
8/3/2015		0.0014 (J)
2/16/2016		0.0011 (J)
2/22/2017		0.0011 (J)
2/19/2018		<0.025
8/6/2018		<0.025

Tolerance Limit

Constituent: Fluoride (mg/L) Analysis Run 3/11/2020 11:45 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)
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)

Tolerance Limit

Constituent: Lead (mg/L) Analysis Run 3/11/2020 11:45 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)
9/9/1998	0.006	
9/20/1999	<0.005	
9/12/2001	0.0042	
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
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

Tolerance Limit

Constituent: Mercury (mg/L) Analysis Run 3/11/2020 11:45 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)
5/1/2007	<0.0005
9/11/2007	<0.0005
3/20/2008	<0.0005
8/27/2008	<0.0005
3/3/2009	<0.0005
11/18/2009	<0.0005
3/3/2010	<0.0005
9/8/2010	<0.0005
3/10/2011	<0.0005
9/8/2011	<0.0005
3/5/2012	<0.0005
9/10/2012	<0.0005
2/6/2013	<0.0005
8/12/2013	<0.0005
2/5/2014	<0.0005
8/5/2014	<0.0005
2/4/2015	<0.0005
8/3/2015	<0.0005
2/16/2016	1.36E-05 (J)
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

Tolerance Limit

Constituent: Nickel (mg/L) Analysis Run 3/11/2020 11:45 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)
9/9/1998	<0.005	
9/20/1999	<0.005	
9/12/2001	<0.005	
9/3/2002	<0.005	
7/29/2003	0.0061	
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
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)

Tolerance Limit

Constituent: Selenium (mg/L) Analysis Run 3/11/2020 11:45 AM View: Upper Tolerance Limit

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)
9/9/1998	<0.01	
9/20/1999	<0.01	
9/12/2001	<0.01	
9/3/2002	<0.01	
7/29/2003	0.015	
12/5/2003	<0.01	
9/22/2004	<0.01	
5/1/2007		<0.01
9/11/2007		<0.01
3/20/2008		<0.01
8/27/2008		<0.01
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		<0.01
2/16/2016		<0.01
8/31/2016		<0.01
11/28/2016		<0.01
2/22/2017		<0.01
5/8/2017		<0.01
7/17/2017		<0.01
10/16/2017		<0.01
2/19/2018		<0.01
8/6/2018		<0.01

Tolerance Limit

Constituent: Silver (mg/L) Analysis Run 3/11/2020 11:45 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)
5/1/2007	<0.01
9/11/2007	<0.01
3/20/2008	<0.01
8/27/2008	<0.01
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	<0.01
2/16/2016	<0.01
2/22/2017	<0.01
2/19/2018	<0.01
8/6/2018	<0.01

Tolerance Limit

Constituent: Thallium (mg/L) Analysis Run 3/11/2020 11:45 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)
5/1/2007	<0.001
9/11/2007	<0.001
3/20/2008	<0.001
8/27/2008	<0.001
3/3/2009	<0.001
11/18/2009	<0.001
3/3/2010	<0.001
9/8/2010	<0.001
3/10/2011	<0.001
9/8/2011	<0.001
3/5/2012	<0.001
9/10/2012	<0.001
2/6/2013	<0.001
8/12/2013	<0.001
2/5/2014	<0.001
8/5/2014	<0.001
2/4/2015	<0.001
2/16/2016	<0.001
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

Tolerance Limit

Constituent: Vanadium (mg/L) Analysis Run 3/11/2020 11:45 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)
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

Tolerance Limit

Constituent: Zinc (mg/L) Analysis Run 3/11/2020 11:45 AM View: Upper Tolerance Limit

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-1 (bg)	GWA-2 (bg)
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
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
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)

Tolerance Limit

Constituent: Molybdenum (mg/L) Analysis Run 3/11/2020 11:49 AM View: Upper Tolerance Limit
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)
8/31/2016	<0.01
11/28/2016	<0.01
2/22/2017	<0.01
5/8/2017	<0.01
7/17/2017	<0.01
10/16/2017	<0.01
2/19/2018	<0.01
8/6/2018	<0.01

Tolerance Limit

Constituent: Lithium (mg/L) Analysis Run 3/11/2020 11:57 AM View: Upper Tolerance Limit

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWA-2 (bg)
8/31/2016	<0.05
11/28/2016	<0.05
2/22/2017	<0.05
5/8/2017	0.0014 (J)
7/17/2017	<0.05
10/16/2017	0.0016 (J)
2/19/2018	<0.05

Confidence Interval All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/26/2020, 6:00 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	GWC-1R	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-2R	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-3R	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-4R	0.003	0.0014	0.006	No	12	83.33	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-5R	0.003	0.00054	0.006	No	12	91.67	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-6R	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-1R	0.005	0.0005	0.01	No	12	75	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-2R	0.005	0.00075	0.01	No	12	91.67	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-3R	0.005	0.0016	0.01	No	12	83.33	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-4R	0.005	0.00059	0.01	No	12	83.33	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-5R	0.005	0.00091	0.01	No	12	25	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-6R	0.005	0.00068	0.01	No	12	33.33	No	0.01	NP (normality)
Barium (mg/L)	GWC-1R	0.06226	0.03333	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GWC-2R	0.05471	0.04686	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GWC-3R	0.03557	0.02197	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GWC-4R	0.029	0.0151	2	No	12	0	No	0.01	NP (normality)
Barium (mg/L)	GWC-5R	0.0347	0.014	2	No	12	0	No	0.01	NP (normality)
Barium (mg/L)	GWC-6R	0.07865	0.05257	2	No	12	0	No	0.01	Param.
Beryllium (mg/L)	GWC-1R	0.003	0.00075	0.004	No	12	41.67	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-2R	0.003	0.00007	0.004	No	12	66.67	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-3R	0.00051	0.0002	0.004	No	12	8.333	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-4R	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-5R	0.001843	0.0004074	0.004	No	12	8.333	sqrt(x)	0.01	Param.
Beryllium (mg/L)	GWC-6R	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-1R	0.0025	0.00008	0.005	No	12	91.67	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-2R	0.0025	0.0001	0.005	No	12	83.33	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-3R	0.0025	0.00018	0.005	No	12	75	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-4R	0.0025	0.0001	0.005	No	12	91.67	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-5R	0.001172	0.000388	0.005	No	12	8.333	sqrt(x)	0.01	Param.
Cadmium (mg/L)	GWC-6R	0.0025	0.0025	0.005	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-1R	0.01	0.0009	0.1	No	12	25	No	0.01	NP (normality)
Chromium (mg/L)	GWC-2R	0.01	0.0008	0.1	No	12	83.33	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-3R	0.01	0.0009	0.1	No	12	25	No	0.01	NP (normality)
Chromium (mg/L)	GWC-4R	0.01	0.00057	0.1	No	12	58.33	No	0.01	NP (normality)
Chromium (mg/L)	GWC-5R	0.01	0.0017	0.1	No	12	8.333	No	0.01	NP (normality)
Chromium (mg/L)	GWC-6R	0.01	0.0012	0.1	No	12	25	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-1R	0.005	0.0006	0.013	No	12	33.33	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-3R	0.01	0.0016	0.013	No	12	83.33	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-4R	0.005	0.0006	0.013	No	12	25	No	0.01	NP (Cohens/xfrm)
Cobalt (mg/L)	GWC-5R	0.005	0.00034	0.013	No	12	83.33	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-6R	0.005	0.005	0.013	No	12	100	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GWC-1R	1.087	0.4548	5	No	9	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2R	1.432	0.4137	5	No	9	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-3R	0.7024	0.151	5	No	9	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-4R	0.6978	0.09566	5	No	9	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-5R	1.108	0.207	5	No	9	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-6R	1.021	0.3715	5	No	9	0	No	0.01	Param.
Copper (mg/L)	GWC-1R	0.025	0.00079	0.025	No	6	83.33	No	0.0155	NP (NDs)
Copper (mg/L)	GWC-2R	0.025	0.00024	0.025	No	6	83.33	No	0.0155	NP (NDs)
Copper (mg/L)	GWC-3R	0.025	0.00033	0.025	No	6	83.33	No	0.0155	NP (NDs)

Confidence Interval All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/26/2020, 6:00 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Copper (mg/L)	GWC-4R	0.025	0.00025	0.025	No	6	83.33	No	0.0155	NP (NDs)
Copper (mg/L)	GWC-5R	0.025	0.00049	0.025	No	6	66.67	No	0.0155	NP (normality)
Copper (mg/L)	GWC-6R	0.025	0.0011	0.025	No	6	16.67	No	0.0155	NP (normality)
Fluoride (mg/L)	GWC-1R	0.3	0.05	4	No	12	66.67	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-2R	0.58	0.04	4	No	12	58.33	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-3R	0.58	0.037	4	No	12	50	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-4R	0.3	0.08	4	No	12	66.67	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-5R	0.35	0.03	4	No	12	58.33	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-6R	0.3	0.05	4	No	12	66.67	No	0.01	NP (normality)
Lead (mg/L)	GWC-1R	0.005	0.000052	0.015	No	12	91.67	No	0.01	NP (NDs)
Lead (mg/L)	GWC-2R	0.005	0.000061	0.015	No	12	66.67	No	0.01	NP (normality)
Lead (mg/L)	GWC-3R	0.005	0.000082	0.015	No	12	75	No	0.01	NP (normality)
Lead (mg/L)	GWC-4R	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	GWC-5R	0.005	0.00007	0.015	No	12	83.33	No	0.01	NP (NDs)
Lead (mg/L)	GWC-6R	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-1R	0.03	0.0012	0.03	No	10	30	No	0.011	NP (normality)
Lithium (mg/L)	GWC-2R	0.03	0.0035	0.03	No	10	30	No	0.011	NP (normality)
Lithium (mg/L)	GWC-3R	0.03	0.03	0.03	No	10	100	No	0.011	NP (NDs)
Lithium (mg/L)	GWC-4R	0.03	0.0013	0.03	No	10	80	No	0.011	NP (NDs)
Lithium (mg/L)	GWC-5R	0.03	0.0015	0.03	No	10	80	No	0.011	NP (NDs)
Lithium (mg/L)	GWC-6R	0.03	0.002	0.03	No	9	33.33	No	0.002	NP (normality)
Mercury (mg/L)	GWC-1R	0.0002	0.000059	0.002	No	12	91.67	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-2R	0.0002	0.000071	0.002	No	12	91.67	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-3R	0.00043	0.000064	0.002	No	12	83.33	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-4R	0.0002	0.000058	0.002	No	12	91.67	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-5R	0.0002	0.00006	0.002	No	12	91.67	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-6R	0.0002	0.000067	0.002	No	12	91.67	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-1R	0.01	0.01	0.01	No	9	100	No	0.002	NP (NDs)
Molybdenum (mg/L)	GWC-2R	0.01	0.01	0.01	No	9	100	No	0.002	NP (NDs)
Molybdenum (mg/L)	GWC-3R	0.01	0.01	0.01	No	9	100	No	0.002	NP (NDs)
Molybdenum (mg/L)	GWC-4R	0.01	0.01	0.01	No	9	100	No	0.002	NP (NDs)
Molybdenum (mg/L)	GWC-5R	0.01	0.01	0.01	No	9	100	No	0.002	NP (NDs)
Molybdenum (mg/L)	GWC-6R	0.01	0.01	0.01	No	9	100	No	0.002	NP (NDs)
Nickel (mg/L)	GWC-1R	0.01	0.00072	0.021	No	6	33.33	No	0.0155	NP (Cohens/xfrm)
Nickel (mg/L)	GWC-2R	0.01	0.00043	0.021	No	6	33.33	No	0.0155	NP (normality)
Nickel (mg/L)	GWC-3R	0.01	0.01	0.021	No	6	100	No	0.0155	NP (NDs)
Nickel (mg/L)	GWC-4R	0.01	0.00082	0.021	No	6	33.33	No	0.0155	NP (normality)
Nickel (mg/L)	GWC-5R	0.0023	0.0013	0.021	No	6	0	No	0.0155	NP (normality)
Nickel (mg/L)	GWC-6R	0.01	0.0015	0.021	No	6	16.67	No	0.0155	NP (Cohens/xfrm)
Selenium (mg/L)	GWC-1R	0.009544	0.002446	0.05	No	12	25	No	0.01	Param.
Selenium (mg/L)	GWC-2R	0.003466	0.002001	0.05	No	12	8.333	No	0.01	Param.
Selenium (mg/L)	GWC-3R	0.007916	0.002186	0.05	No	12	16.67	No	0.01	Param.
Selenium (mg/L)	GWC-4R	0.006844	0.003013	0.05	No	12	8.333	In(x)	0.01	Param.
Selenium (mg/L)	GWC-5R	0.02843	0.01635	0.05	No	12	0	No	0.01	Param.
Selenium (mg/L)	GWC-6R	0.004597	0.002519	0.05	No	12	8.333	No	0.01	Param.
Silver (mg/L)	GWC-1R	0.01	0.01	0.01	No	6	100	No	0.0155	NP (NDs)
Silver (mg/L)	GWC-2R	0.01	0.01	0.01	No	6	100	No	0.0155	NP (NDs)
Silver (mg/L)	GWC-3R	0.01	0.01	0.01	No	6	100	No	0.0155	NP (NDs)
Silver (mg/L)	GWC-4R	0.01	0.01	0.01	No	6	100	No	0.0155	NP (NDs)
Silver (mg/L)	GWC-5R	0.01	0.01	0.01	No	6	100	No	0.0155	NP (NDs)

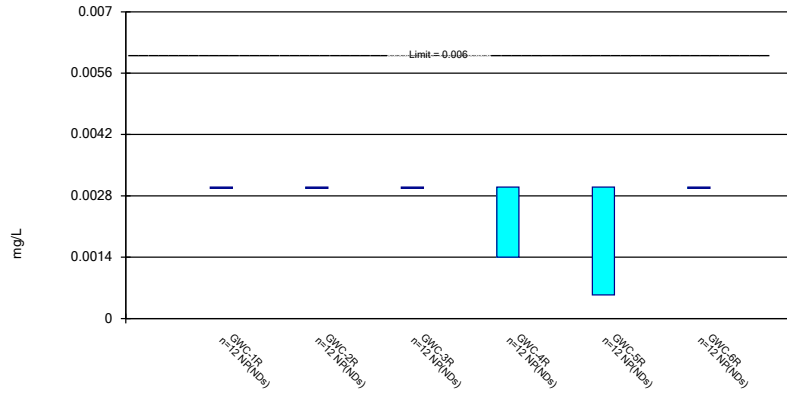
Confidence Interval All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/26/2020, 6:00 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Silver (mg/L)	GWC-6R	0.01	0.01	0.01	No	6	100	No	0.0155	NP (NDs)
Thallium (mg/L)	GWC-1R	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-2R	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-3R	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-4R	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-5R	0.001	0.000053	0.002	No	12	91.67	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-6R	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Vanadium (mg/L)	GWC-1R	0.01	0.01	0.01	No	8	100	No	0.004	NP (NDs)
Vanadium (mg/L)	GWC-2R	0.01	0.00079	0.01	No	8	87.5	No	0.004	NP (NDs)
Vanadium (mg/L)	GWC-3R	0.01	0.0011	0.01	No	8	75	No	0.004	NP (normality)
Vanadium (mg/L)	GWC-4R	0.01	0.00088	0.01	No	8	87.5	No	0.004	NP (NDs)
Vanadium (mg/L)	GWC-5R	0.01	0.01	0.01	No	8	100	No	0.004	NP (NDs)
Vanadium (mg/L)	GWC-6R	0.01	0.0029	0.01	No	8	87.5	No	0.004	NP (NDs)
Zinc (mg/L)	GWC-1R	0.01	0.0015	0.02	No	8	25	No	0.004	NP (Cohens/xfrm)
Zinc (mg/L)	GWC-2R	0.01	0.0017	0.02	No	8	12.5	No	0.004	NP (normality)
Zinc (mg/L)	GWC-3R	0.0079	0.0025	0.02	No	8	0	No	0.004	NP (normality)
Zinc (mg/L)	GWC-4R	0.01	0.0014	0.02	No	8	37.5	No	0.004	NP (Cohens/xfrm)
Zinc (mg/L)	GWC-5R	0.0187	0.005563	0.02	No	9	0	No	0.01	Param.
Zinc (mg/L)	GWC-6R	0.01	0.0024	0.02	No	8	25	No	0.004	NP (Cohens/xfrm)

Non-Parametric Confidence Interval

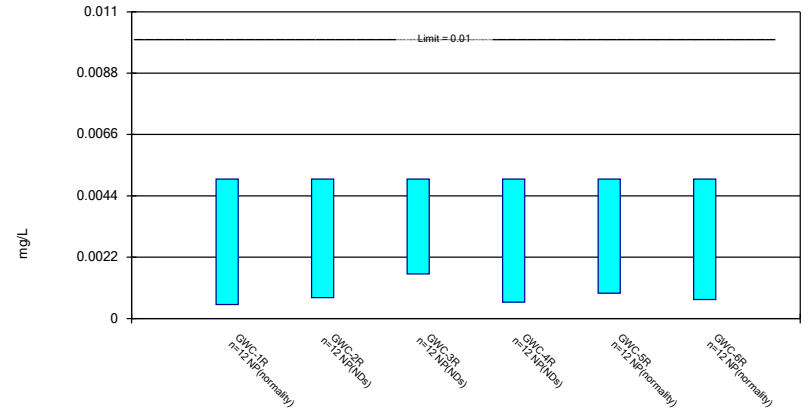
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 3/26/2020 5:58 PM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

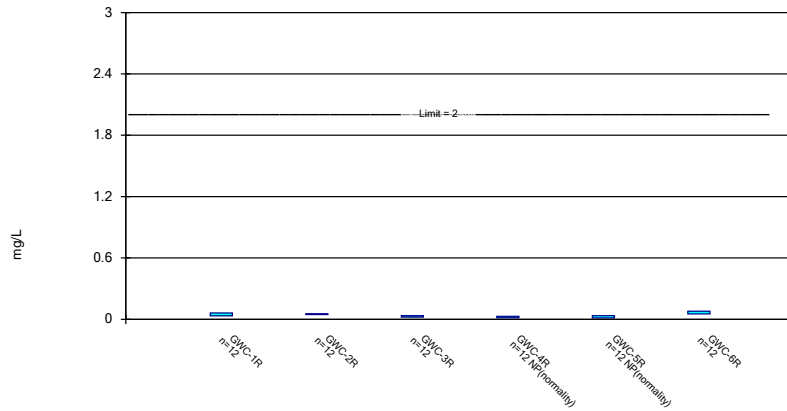
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Arsenic Analysis Run 3/26/2020 5:58 PM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

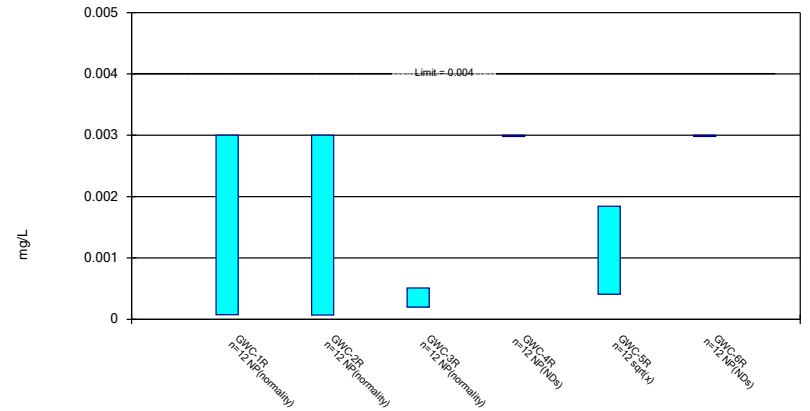
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 3/26/2020 5:58 PM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

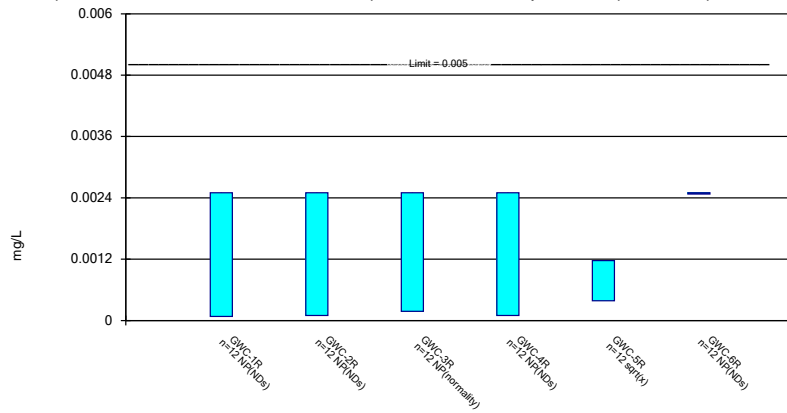
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 3/26/2020 5:58 PM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

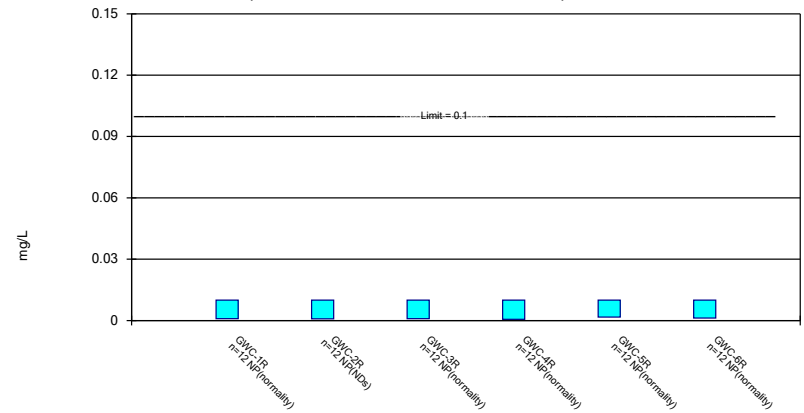
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Constituent: Cadmium Analysis Run 3/26/2020 5:58 PM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

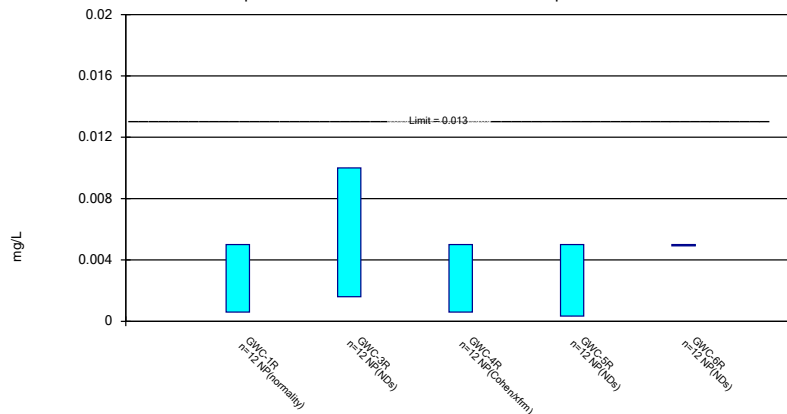
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 3/26/2020 5:58 PM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

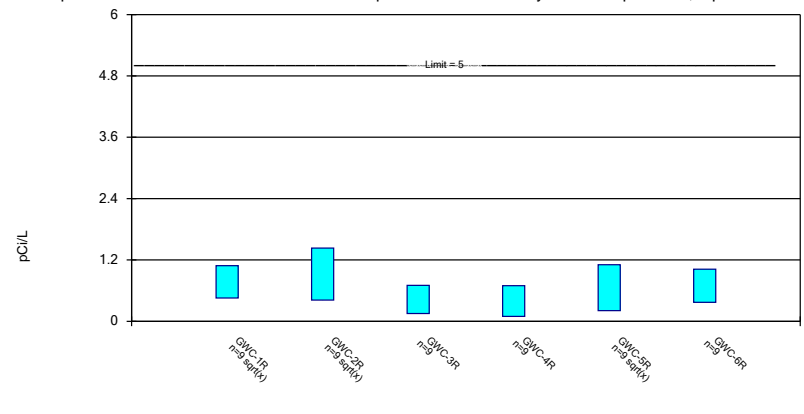
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cobalt Analysis Run 3/26/2020 5:58 PM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric Confidence Interval

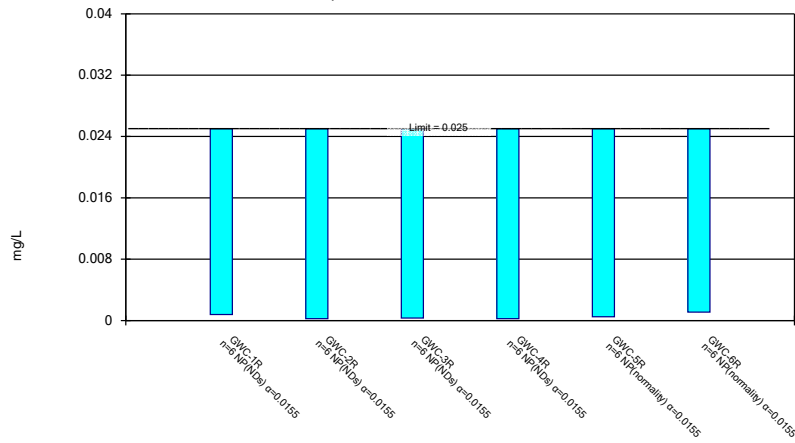
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 3/26/2020 5:58 PM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

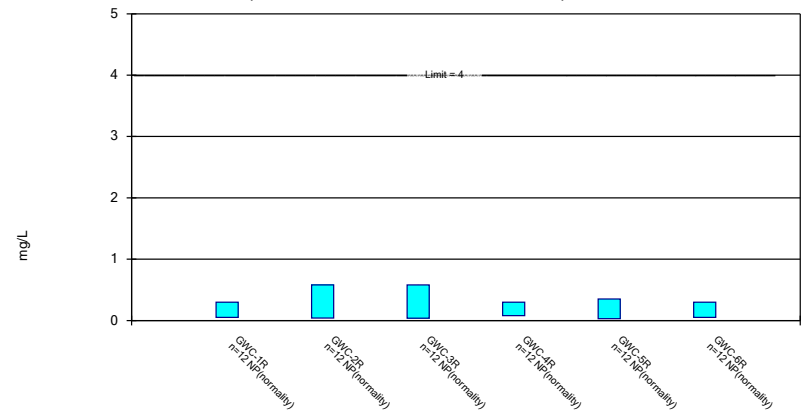
Compliance Limit is not exceeded.



Constituent: Copper Analysis Run 3/26/2020 5:58 PM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

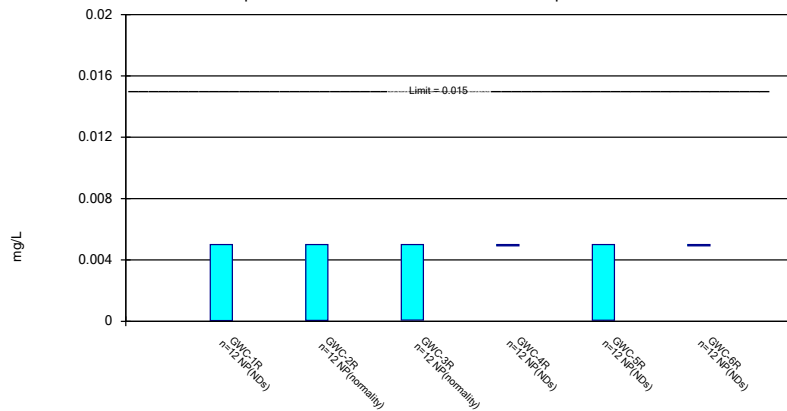
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Fluoride Analysis Run 3/26/2020 5:58 PM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

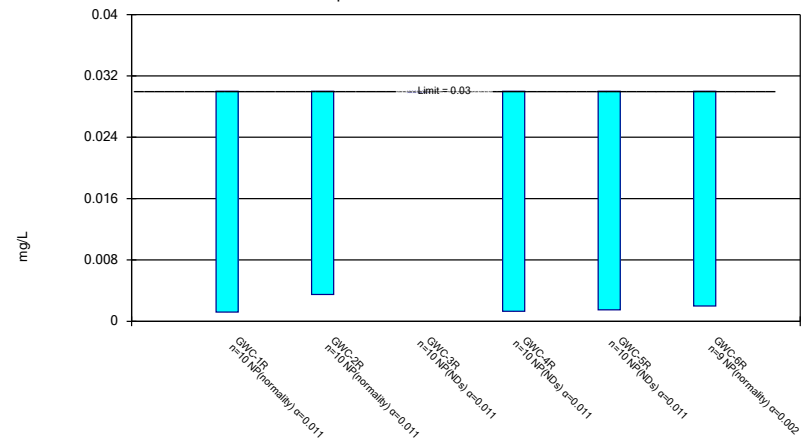
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 3/26/2020 5:58 PM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

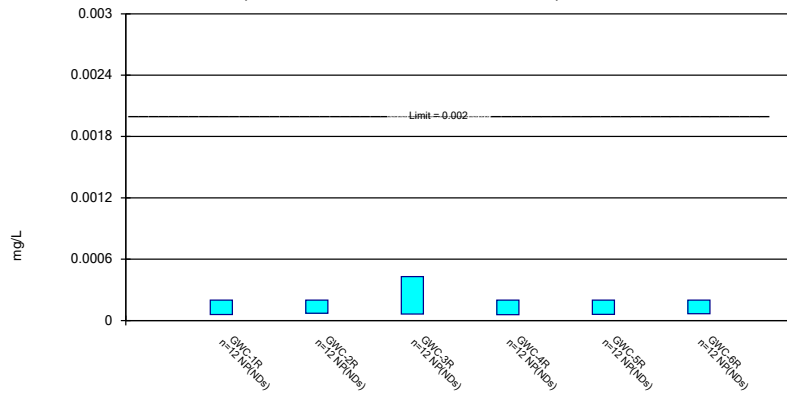
Compliance Limit is not exceeded.



Constituent: Lithium Analysis Run 3/26/2020 5:58 PM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

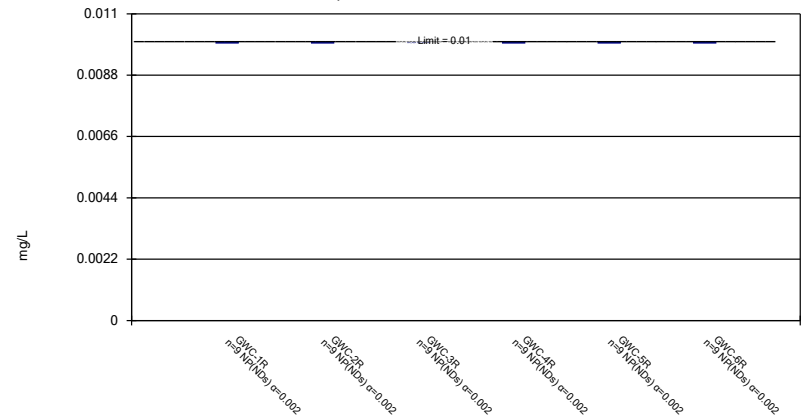
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 3/26/2020 5:58 PM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

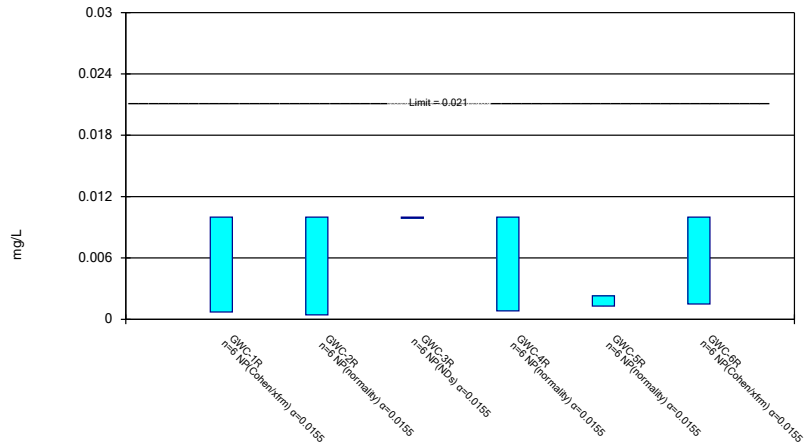
Compliance Limit is not exceeded.



Constituent: Molybdenum Analysis Run 3/26/2020 5:58 PM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

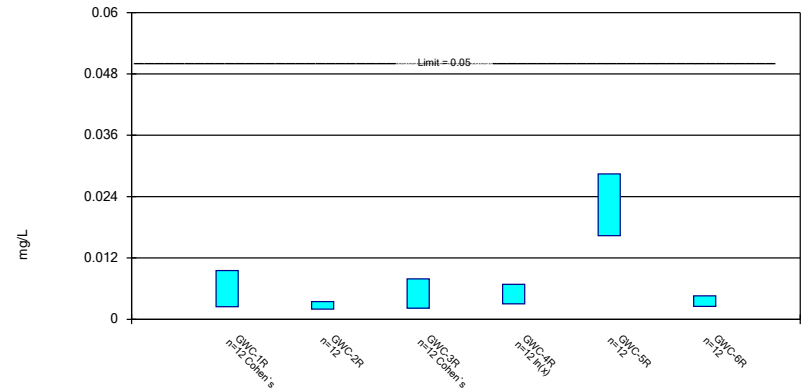
Compliance Limit is not exceeded.



Constituent: Nickel Analysis Run 3/26/2020 5:58 PM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

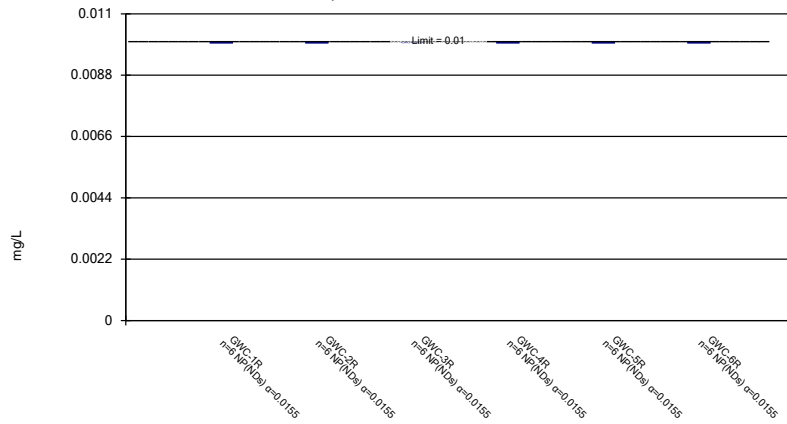
Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



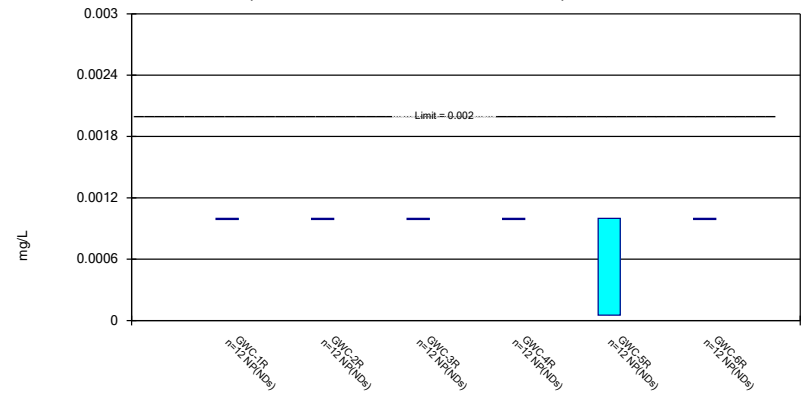
Constituent: Selenium Analysis Run 3/26/2020 5:58 PM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval
Compliance Limit is not exceeded.



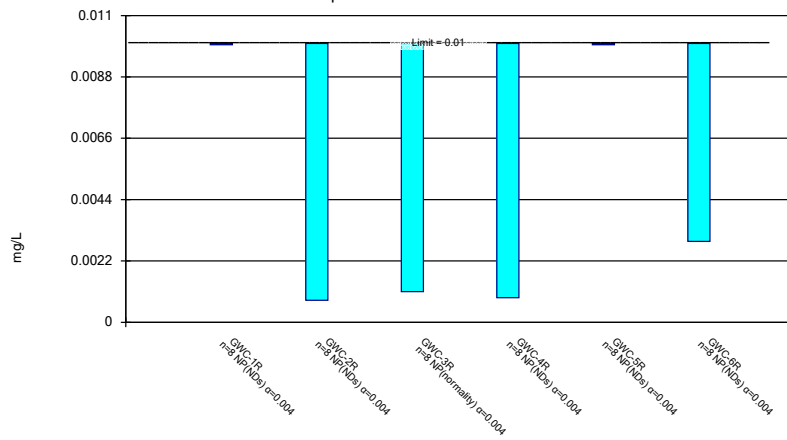
Constituent: Silver Analysis Run 3/26/2020 5:58 PM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 3/26/2020 5:58 PM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

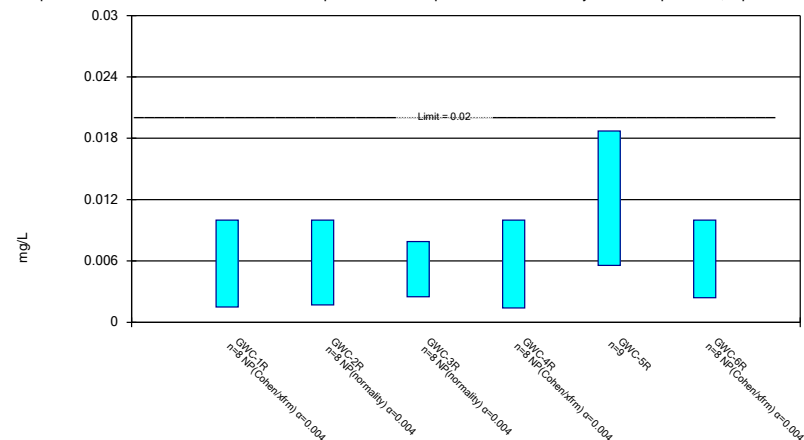
Non-Parametric Confidence Interval
Compliance Limit is not exceeded.



Constituent: Vanadium Analysis Run 3/26/2020 5:58 PM View: 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 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Zinc Analysis Run 3/26/2020 5:58 PM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 3/26/2020 6:00 PM View: 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	<0.003	<0.003	<0.003			
9/1/2016				0.0014 (J)	<0.003	<0.003
11/28/2016		<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				
2/23/2017	<0.003		<0.003			<0.003
2/24/2017				<0.003	<0.003	
5/9/2017	<0.003		<0.003			
5/10/2017		<0.003		<0.003	<0.003	<0.003
7/17/2017					<0.003	
7/18/2017	<0.003	<0.003	<0.003	<0.003		<0.003
10/16/2017					<0.003	
10/17/2017	<0.003	<0.003		<0.003		
10/18/2017			<0.003			<0.003
2/19/2018						<0.003
2/20/2018		<0.003		<0.003		
2/21/2018	<0.003		<0.003		<0.003	
8/6/2018						<0.003
8/7/2018	<0.003		<0.003		<0.003	
8/8/2018		<0.003		<0.003		
2/25/2019						<0.003
2/26/2019	<0.003	<0.003	<0.003	<0.003	<0.003	
6/12/2019		<0.003		0.00028 (J)		
6/13/2019	<0.003		<0.003		<0.003	<0.003
8/19/2019				<0.003		
8/20/2019	<0.003	<0.003				<0.003
8/21/2019			<0.003		0.00054 (J)	
10/8/2019						<0.003
10/9/2019	<0.003	<0.003			<0.003	
10/10/2019			<0.003	<0.003		
Mean	0.003	0.003	0.003	0.00264	0.002795	0.003
Std. Dev.	0	0	0	0.000874	0.0007101	0
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.003	0.003	0.003	0.0014	0.00054	0.003

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 3/26/2020 6:00 PM View: 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	<0.005	<0.005	<0.005			
9/1/2016				<0.005	<0.005	<0.005
11/28/2016		<0.005				
11/29/2016	<0.005					<0.005
11/30/2016			<0.005	<0.005		
12/1/2016					<0.005	
2/22/2017		<0.005				
2/23/2017	<0.005		<0.005			<0.005
2/24/2017				<0.005	<0.005	
5/9/2017	0.0005 (J)		<0.005			
5/10/2017		<0.005		<0.005	0.0011 (J)	0.0007 (J)
7/17/2017					0.0013 (J)	
7/18/2017	<0.005	<0.005	<0.005	<0.005		0.001 (J)
10/16/2017					0.0011 (J)	
10/17/2017	0.0009 (J)	<0.005		<0.005		
10/18/2017			<0.005			0.0011 (J)
2/19/2018						<0.005
2/20/2018		<0.005		<0.005		
2/21/2018	<0.005		<0.005		0.00091 (J)	
8/6/2018						0.0023 (J)
8/7/2018	<0.005		<0.005		0.0021 (J)	
8/8/2018		<0.005		<0.005		
2/25/2019						0.00073 (J)
2/26/2019	<0.005	<0.005	<0.005	<0.005	0.00069 (J)	
6/12/2019		<0.005		0.00037 (J)		
6/13/2019	<0.005		0.0016 (J)		0.0012 (J)	0.00068 (J)
8/19/2019				0.00059 (J)		
8/20/2019	0.00044 (J)	0.00075 (J)				0.00072 (J)
8/21/2019			0.00061 (J)		0.00094 (J)	
10/8/2019						0.00056 (J)
10/9/2019	<0.005	<0.005			0.0012 (J)	
10/10/2019			<0.005	<0.005		
Mean	0.003903	0.004646	0.004351	0.004247	0.002128	0.002316
Std. Dev.	0.001987	0.001227	0.001531	0.00176	0.001764	0.002033
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0005	0.00075	0.0016	0.00059	0.00091	0.00068

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 3/26/2020 6:00 PM View: 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	0.0711	0.0601	0.0286			
9/1/2016				0.0377	0.0345	0.0536
11/28/2016		0.0562				
11/29/2016	0.0754					0.0459
11/30/2016			0.0258	0.0148		
12/1/2016					0.0342	
2/22/2017		0.0481				
2/23/2017	0.0646		0.0278			0.0581
2/24/2017				0.029	0.0347	
5/9/2017	0.0463		0.0308			
5/10/2017		0.0563		0.0182	0.0363	0.0873
7/17/2017					0.0274	
7/18/2017	0.039	0.049	0.0407	0.0187		0.0994
10/16/2017					0.0151	
10/17/2017	0.0349	0.047		0.0157		
10/18/2017			0.049			0.0757
2/19/2018						0.0703
2/20/2018		0.0467		0.0151		
2/21/2018	0.0322		0.0285		0.0174	
8/6/2018						0.076
8/7/2018	0.025		0.029		0.015	
8/8/2018		0.049		0.019		
2/25/2019						0.045
2/26/2019	0.028	0.056	0.026	0.017	0.014	
6/12/2019		0.046		0.017		
6/13/2019	0.033		0.021		0.014	0.062
8/19/2019				0.02		
8/20/2019	0.07	0.05				0.06
8/21/2019			0.02		0.014	
10/8/2019						0.054
10/9/2019	0.054	0.045			0.015	
10/10/2019			0.018	0.018		
Mean	0.04779	0.05078	0.02877	0.02002	0.02263	0.06561
Std. Dev.	0.01844	0.005003	0.008668	0.006686	0.009789	0.01662
Upper Lim.	0.06226	0.05471	0.03557	0.029	0.0347	0.07865
Lower Lim.	0.03333	0.04686	0.02197	0.0151	0.014	0.05257

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 3/26/2020 6:00 PM View: 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	0.0001 (J)	<0.003	0.0003 (J)			
9/1/2016				<0.003	0.0005 (J)	<0.003
11/28/2016		<0.003				
11/29/2016	<0.003					<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)			<0.003
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)	<0.003
7/17/2017					0.0004 (J)	
7/18/2017	<0.003	<0.003	0.0002 (J)	<0.003		<0.003
10/16/2017					0.0006 (J)	
10/17/2017	0.0001 (J)	<0.003		<0.003		
10/18/2017			0.0004 (J)			<0.003
2/19/2018						<0.003
2/20/2018		<0.003		<0.003		
2/21/2018	<0.003		<0.003		<0.003	
8/6/2018						<0.003
8/7/2018	7.4E-05 (J)		0.00026 (J)		0.00096 (J)	
8/8/2018		7E-05 (J)		<0.003		
2/25/2019						<0.003
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)	<0.003
8/19/2019				<0.003		
8/20/2019	0.0001 (J)	0.00017 (J)				<0.003
8/21/2019			0.00046 (J)		0.0028 (J)	
10/8/2019						<0.003
10/9/2019	0.00013 (J)	0.00014 (J)			0.0022 (J)	
10/10/2019			0.00039 (J)	<0.003		
Mean	0.001305	0.002036	0.0005667	0.003	0.001188	0.003
Std. Dev.	0.001496	0.001424	0.0007724	0	0.001007	0
Upper Lim.	0.003	0.003	0.00051	0.003	0.001843	0.003
Lower Lim.	7.5E-05	7E-05	0.0002	0.003	0.0004074	0.003

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 3/26/2020 6:00 PM View: 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	<0.0025	0.0001 (J)	<0.0025			
9/1/2016				0.0001 (J)	0.0005 (J)	<0.0025
11/28/2016		0.0001 (J)				
11/29/2016	8E-05 (J)					<0.0025
11/30/2016			<0.0025	<0.0025		
12/1/2016					0.0004 (J)	
2/22/2017		<0.0025				
2/23/2017	<0.0025		<0.0025			<0.0025
2/24/2017				<0.0025	0.0003 (J)	
5/9/2017	<0.0025		<0.0025			
5/10/2017		<0.0025		<0.0025	0.0003 (J)	<0.0025
7/17/2017					0.0004 (J)	
7/18/2017	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
10/16/2017					0.0006 (J)	
10/17/2017	<0.0025	<0.0025		<0.0025		
10/18/2017			<0.0025			<0.0025
2/19/2018						<0.0025
2/20/2018		<0.0025		<0.0025		
2/21/2018	<0.0025		<0.0025		<0.0025	
8/6/2018						<0.0025
8/7/2018	<0.0025		<0.0025		0.00083 (J)	
8/8/2018		<0.0025		<0.0025		
2/25/2019						<0.0025
2/26/2019	<0.0025	<0.0025	0.00011 (J)	<0.0025	0.00081 (J)	
6/12/2019		<0.0025		<0.0025		
6/13/2019	<0.0025		0.00021 (J)		0.00073 (J)	<0.0025
8/19/2019				<0.0025		
8/20/2019	<0.0025	<0.0025				<0.0025
8/21/2019			<0.0025		0.0012 (J)	
10/8/2019						<0.0025
10/9/2019	<0.0025	<0.0025			0.0011 (J)	
10/10/2019			0.00018 (J)	<0.0025		
Mean	0.002298	0.0021	0.001917	0.0023	0.0008058	0.0025
Std. Dev.	0.0006986	0.0009342	0.001056	0.0006928	0.0006102	0
Upper Lim.	0.0025	0.0025	0.0025	0.0025	0.001172	0.0025
Lower Lim.	8E-05	0.0001	0.00018	0.0001	0.000388	0.0025

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 3/26/2020 6:00 PM View: 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	0.0012 (J)	<0.01	0.0013 (J)			
9/1/2016				<0.01	0.0021 (J)	0.0015 (J)
11/28/2016		<0.01				
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		<0.01				
2/23/2017	0.001 (J)		0.0012 (J)			0.0017 (J)
2/24/2017				<0.01	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)	<0.01	0.0009 (J)	0.0011 (J)		0.0012 (J)
10/16/2017					0.0023 (J)	
10/17/2017	0.001 (J)	<0.01		<0.01		
10/18/2017			0.001 (J)			0.0012 (J)
2/19/2018						<0.01
2/20/2018		<0.01		<0.01		
2/21/2018	<0.01		<0.01		<0.01	
8/6/2018						<0.01
8/7/2018	<0.01		<0.01		0.0024 (J)	
8/8/2018		<0.01		<0.01		
2/25/2019						<0.01
2/26/2019	<0.01	<0.01	<0.01	<0.01	0.0019 (J)	
6/12/2019		<0.01		<0.01		
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)	<0.01				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)		
Mean	0.003267	0.008449	0.003344	0.006182	0.002742	0.003541
Std. Dev.	0.004062	0.003622	0.00402	0.004723	0.002304	0.003901
Upper Lim.	0.01	0.01	0.01	0.01	0.01	0.01
Lower Lim.	0.0009	0.0008	0.0009	0.00057	0.0017	0.0012

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 3/26/2020 6:00 PM View: Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	0.0006 (J)	<0.005			
9/1/2016			0.0023 (J)	<0.005	<0.005
11/29/2016	<0.005				<0.005
11/30/2016		<0.005	0.0008 (J)		
12/1/2016				<0.005	
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			<0.005	<0.005	<0.005
7/17/2017				<0.005	
7/18/2017	0.0032 (J)	<0.005	0.0005 (J)		<0.005
10/16/2017				<0.005	
10/17/2017	0.0007 (J)		0.0006 (J)		
10/18/2017		<0.005			<0.005
2/19/2018					<0.005
2/20/2018			<0.005		
2/21/2018	<0.005	<0.005		<0.005	
8/6/2018					<0.005
8/7/2018	<0.005	<0.005		<0.005	
8/8/2018			0.001 (J)		
2/25/2019					<0.005
2/26/2019	<0.005	<0.005	<0.005	<0.005	
6/12/2019			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)				<0.005
8/21/2019		0.0016 (J)		0.00034 (J)	
10/8/2019					<0.005
10/9/2019	0.00064 (J)			0.00031 (J)	
10/10/2019		<0.005	0.00099 (J)		
Mean	0.00233	0.005133	0.002122	0.004221	0.005
Std. Dev.	0.002101	0.001818	0.001842	0.00182	0
Upper Lim.	0.005	0.01	0.005	0.005	0.005
Lower Lim.	0.0006	0.0016	0.0006	0.00034	0.005

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 3/26/2020 6:00 PM View: 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)		
Mean	0.7692	0.9193	0.4267	0.3967	0.6532	0.696
Std. Dev.	0.3486	0.5792	0.2856	0.3118	0.521	0.3361
Upper Lim.	1.087	1.432	0.7024	0.6978	1.108	1.021
Lower Lim.	0.4548	0.4137	0.151	0.09566	0.207	0.3715

Confidence Interval

Constituent: Copper (mg/L) Analysis Run 3/26/2020 6:00 PM View: Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
2/22/2017		<0.025				
2/23/2017	<0.025		<0.025			0.0018 (J)
2/24/2017				<0.025	<0.025	
2/19/2018						<0.025
2/20/2018		<0.025		<0.025		
2/21/2018	<0.025		<0.025		<0.025	
8/6/2018						0.0016 (J)
8/7/2018	<0.025		<0.025		<0.025	
8/8/2018		<0.025		<0.025		
2/25/2019						0.0016 (J)
2/26/2019	<0.025	<0.025	<0.025	<0.025	<0.025	
6/12/2019		<0.025		0.00025 (J)		
6/13/2019	<0.025		<0.025		0.00049 (J)	0.0011 (J)
10/8/2019						0.0011 (J)
10/9/2019	0.00079 (J)	0.00024 (J)			0.00087 (J)	
10/10/2019			0.00033 (J)	<0.025		
Mean	0.02097	0.02087	0.02089	0.02088	0.01689	0.005367
Std. Dev.	0.009884	0.01011	0.01007	0.0101	0.01256	0.009623
Upper Lim.	0.025	0.025	0.025	0.025	0.025	0.025
Lower Lim.	0.00079	0.00024	0.00033	0.00025	0.00049	0.0011

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 3/26/2020 6:00 PM View: 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					<0.3	
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)		<0.3			
5/10/2017		0.05 (J)		0.04 (J)	<0.3	0.02 (J)
7/17/2017					0.37	
7/18/2017	<0.3	<0.3	<0.3	<0.3		<0.3
10/16/2017					<0.3	
10/17/2017	<0.3	<0.3		<0.3		
10/18/2017			0.22 (J)			<0.3
2/19/2018						<0.3
2/20/2018		<0.3		<0.3		
2/21/2018	<0.3		<0.3		<0.3	
8/6/2018						<0.3
8/7/2018	<0.3		<0.3		<0.3	
8/8/2018		<0.3		<0.3		
2/25/2019						<0.3
2/26/2019	<0.3	<0.3	<0.3	<0.3	0.035 (J)	
6/12/2019		0.58		<0.3		
6/13/2019	<0.3		0.58		<0.3	<0.3
8/19/2019				<0.3		
8/20/2019	<0.3	<0.3				<0.3
8/21/2019			0.037 (J)		<0.3	
10/8/2019						<0.3
10/9/2019	<0.3	<0.3			0.35	
10/10/2019			<0.3	<0.3		
Mean	0.2175	0.24	0.2314	0.2317	0.2429	0.235
Std. Dev.	0.122	0.1614	0.1626	0.1038	0.1294	0.1142
Upper Lim.	0.3	0.58	0.58	0.3	0.35	0.3
Lower Lim.	0.05	0.04	0.037	0.08	0.03	0.05

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 3/26/2020 6:00 PM View: 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	<0.005	<0.005	0.0001 (J)			
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	<0.005		<0.005			
5/10/2017		0.0001 (J)		<0.005	<0.005	<0.005
7/17/2017					<0.005	
7/18/2017	<0.005	7E-05 (J)	<0.005	<0.005		<0.005
10/16/2017					<0.005	
10/17/2017	<0.005	<0.005		<0.005		
10/18/2017			8E-05 (J)			<0.005
2/19/2018						<0.005
2/20/2018		<0.005		<0.005		
2/21/2018	<0.005		<0.005		<0.005	
8/6/2018						<0.005
8/7/2018	<0.005		<0.005		<0.005	
8/8/2018		<0.005		<0.005		
2/25/2019						<0.005
2/26/2019	<0.005	<0.005	<0.005	<0.005	<0.005	
6/12/2019		<0.005		<0.005		
6/13/2019	<0.005		<0.005		<0.005	<0.005
8/19/2019				<0.005		
8/20/2019	<0.005	6.1E-05 (J)				<0.005
8/21/2019			8.2E-05 (J)		7E-05 (J)	
10/8/2019						<0.005
10/9/2019	5.2E-05 (J)	5.7E-05 (J)			5.9E-05 (J)	
10/10/2019			<0.005	<0.005		
Mean	0.004588	0.003357	0.003772	0.005	0.004177	0.005
Std. Dev.	0.001428	0.002426	0.002222	0	0.001921	0
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	5.2E-05	6.1E-05	8.2E-05	0.005	7E-05	0.005

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 3/26/2020 6:00 PM View: 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	
8/7/2018	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)		
Mean	0.01009	0.01162	0.03	0.02422	0.02429	0.01188
Std. Dev.	0.01375	0.01269	0	0.01218	0.01204	0.01363
Upper Lim.	0.03	0.03	0.03	0.03	0.03	0.03
Lower Lim.	0.0012	0.0035	0.03	0.0013	0.0015	0.002

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 3/26/2020 6:00 PM View: 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	<0.0002	<0.0002	<0.0002			
9/1/2016				<0.0002	<0.0002	<0.0002
11/28/2016		<0.0002				
11/29/2016	<0.0002					<0.0002
11/30/2016			<0.0002	<0.0002		
12/1/2016					<0.0002	
2/22/2017		<0.0002				
2/23/2017	<0.0002		<0.0002			<0.0002
2/24/2017				<0.0002	<0.0002	
5/9/2017	<0.0002		<0.0002			
5/10/2017		<0.0002		<0.0002	<0.0002	<0.0002
7/17/2017					<0.0002	
7/18/2017	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
10/16/2017					<0.0002	
10/17/2017	<0.0002	<0.0002		<0.0002		
10/18/2017			<0.0002			<0.0002
2/19/2018						<0.0002
2/20/2018		<0.0002		<0.0002		
2/21/2018	<0.0002		<0.0002		<0.0002	
8/6/2018						<0.0002
8/7/2018	<0.0002		<0.0002		<0.0002	
8/8/2018		<0.0002		<0.0002		
2/25/2019						6.7E-05 (J)
2/26/2019	5.9E-05 (J)	7.1E-05 (J)	6.4E-05 (J)	5.8E-05 (J)	6E-05 (J)	
6/12/2019		<0.0002		<0.0002		
6/13/2019	<0.0002		<0.0002		<0.0002	<0.0002
8/19/2019				<0.0002		
8/20/2019	<0.0002	<0.0002				<0.0002
8/21/2019			<0.0002		<0.0002	
10/8/2019						<0.0002
10/9/2019	<0.0002	<0.0002			<0.0002	
10/10/2019			0.00043 (J)	<0.0002		
Mean	0.0001882	0.0001892	0.0002078	0.0001882	0.0001883	0.0001889
Std. Dev.	4.07E-05	3.724E-05	8.015E-05	4.099E-05	4.041E-05	3.839E-05
Upper Lim.	0.0002	0.0002	0.00043	0.0002	0.0002	0.0002
Lower Lim.	5.9E-05	7.1E-05	6.4E-05	5.8E-05	6E-05	6.7E-05

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 3/26/2020 6:00 PM View: 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	<0.01	<0.01	<0.01			
9/1/2016				<0.01	<0.01	<0.01
11/28/2016		<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				
2/23/2017	<0.01		<0.01			<0.01
2/24/2017				<0.01	<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	
7/18/2017	<0.01	<0.01	<0.01	<0.01		<0.01
10/16/2017					<0.01	
10/17/2017	<0.01	<0.01		<0.01		
10/18/2017			<0.01			<0.01
2/19/2018						<0.01
2/20/2018		<0.01		<0.01		
2/21/2018	<0.01		<0.01		<0.01	
8/6/2018						<0.01
8/7/2018	<0.01		<0.01		<0.01	
8/8/2018		<0.01		<0.01		
8/19/2019				<0.01		
8/20/2019	<0.01	<0.01				<0.01
8/21/2019			<0.01		<0.01	
Mean	0.01	0.01	0.01	0.01	0.01	0.01
Std. Dev.	0	0	0	0	0	0
Upper Lim.	0.01	0.01	0.01	0.01	0.01	0.01
Lower Lim.	0.01	0.01	0.01	0.01	0.01	0.01

Confidence Interval

Constituent: Nickel (mg/L) Analysis Run 3/26/2020 6:00 PM View: Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
2/22/2017		0.0009 (J)				
2/23/2017	0.0026 (J)		<0.01			0.0015 (J)
2/24/2017				0.0021 (J)	0.0019 (J)	
2/19/2018						<0.01
2/20/2018		<0.01		<0.01		
2/21/2018	0.001 (J)		<0.01		0.0013 (J)	
8/6/2018						0.0026 (J)
8/7/2018	<0.01		<0.01		0.0019 (J)	
8/8/2018		<0.01		0.0012 (J)		
2/25/2019						0.0023 (J)
2/26/2019	<0.01	0.0068 (J)	<0.01	<0.01	0.0023 (J)	
6/12/2019		0.00043 (J)		0.00082 (J)		
6/13/2019	0.00072 (J)		<0.01		0.0019 (J)	0.0037 (J)
10/8/2019						0.0021 (J)
10/9/2019	0.0015 (J)	0.00058 (J)			0.0019 (J)	
10/10/2019			<0.01	0.00084 (J)		
Mean	0.004303	0.004785	0.01	0.00416	0.001867	0.0037
Std. Dev.	0.004459	0.004695	0	0.004547	0.0003204	0.00317
Upper Lim.	0.01	0.01	0.01	0.01	0.0023	0.01
Lower Lim.	0.00072	0.00043	0.01	0.00082	0.0013	0.0015

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 3/26/2020 6:00 PM View: 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	0.0039 (J)	0.0029 (J)	0.0038 (J)			
9/1/2016				0.0132	0.0212	0.002 (J)
11/28/2016		0.0019 (J)				
11/29/2016	0.0033 (J)					0.0017 (J)
11/30/2016			0.0054 (J)	0.0046 (J)		
12/1/2016					0.0234	
2/22/2017		0.0015 (J)				
2/23/2017	0.0097 (J)		0.002 (J)			0.0018 (J)
2/24/2017				0.0108	0.0154	
5/9/2017	0.0066 (J)		<0.01			
5/10/2017		0.0016 (J)		0.0054 (J)	0.0152	0.0023 (J)
7/17/2017					0.0136	
7/18/2017	0.0021 (J)	0.0024 (J)	0.0027 (J)	0.0047 (J)		0.0046 (J)
10/16/2017					0.0242	
10/17/2017	0.003 (J)	0.0028 (J)		0.004 (J)		
10/18/2017			0.0047 (J)			0.0037 (J)
2/19/2018						<0.01
2/20/2018		<0.01		<0.01		
2/21/2018	<0.01		<0.01		0.0127	
8/6/2018						0.0047 (J)
8/7/2018	<0.01		0.0016 (J)		0.021	
8/8/2018		0.0025 (J)		0.0041 (J)		
2/25/2019						0.0051 (J)
2/26/2019	0.0014 (J)	0.003 (J)	0.002 (J)	0.0027 (J)	0.024	
6/12/2019		0.0034 (J)		0.0029 (J)		
6/13/2019	<0.01		0.0089 (J)		0.027	0.0048 (J)
8/19/2019				0.003 (J)		
8/20/2019	0.0022 (J)	0.0032 (J)				0.0039 (J)
8/21/2019			0.004 (J)		0.037	
10/8/2019						0.0031 (J)
10/9/2019	0.0023 (J)	0.0026 (J)			0.034	
10/10/2019			0.0021 (J)	0.0024 (J)		
Mean	0.004125	0.002733	0.003933	0.005233	0.02239	0.003558
Std. Dev.	0.002337	0.0009335	0.002078	0.003343	0.007696	0.001324
Upper Lim.	0.009544	0.003466	0.007916	0.006844	0.02843	0.004597
Lower Lim.	0.002446	0.002001	0.002186	0.003013	0.01635	0.002519

Confidence Interval

Constituent: Silver (mg/L) Analysis Run 3/26/2020 6:00 PM View: Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
2/22/2017		<0.01				
2/23/2017	<0.01		<0.01			<0.01
2/24/2017				<0.01	<0.01	
2/19/2018						<0.01
2/20/2018		<0.01		<0.01		
2/21/2018	<0.01		<0.01		<0.01	
8/6/2018						<0.01
8/7/2018	<0.01		<0.01		<0.01	
8/8/2018		<0.01		<0.01		
2/25/2019						<0.01
2/26/2019	<0.01	<0.01	<0.01	<0.01	<0.01	
6/12/2019		<0.01		<0.01		
6/13/2019	<0.01		<0.01		<0.01	<0.01
10/8/2019						<0.01
10/9/2019	<0.01	<0.01			<0.01	
10/10/2019			<0.01	<0.01		
Mean	0.01	0.01	0.01	0.01	0.01	0.01
Std. Dev.	0	0	0	0	0	0
Upper Lim.	0.01	0.01	0.01	0.01	0.01	0.01
Lower Lim.	0.01	0.01	0.01	0.01	0.01	0.01

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 3/26/2020 6:00 PM View: 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	<0.001	<0.001	<0.001			
9/1/2016				<0.001	<0.001	<0.001
11/28/2016		<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				
2/23/2017	<0.001		<0.001			<0.001
2/24/2017				<0.001	<0.001	
5/9/2017	<0.001		<0.001			
5/10/2017		<0.001		<0.001	<0.001	<0.001
7/17/2017					<0.001	
7/18/2017	<0.001	<0.001	<0.001	<0.001		<0.001
10/16/2017					<0.001	
10/17/2017	<0.001	<0.001		<0.001		
10/18/2017			<0.001			<0.001
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		
6/13/2019	<0.001		<0.001		<0.001	<0.001
8/19/2019				<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
10/9/2019	<0.001	<0.001			<0.001	
10/10/2019			<0.001	<0.001		
Mean	0.001	0.001	0.001	0.001	0.0009211	0.001
Std. Dev.	0	0	0	0	0.0002734	0
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.001	0.001	0.001	0.001	5.3E-05	0.001

Confidence Interval

Constituent: Vanadium (mg/L) Analysis Run 3/26/2020 6:00 PM View: Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
2/22/2017		<0.01				
2/23/2017	<0.01		<0.01			<0.01
2/24/2017				<0.01	<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	
7/18/2017	<0.01	<0.01	<0.01	<0.01		<0.01
2/19/2018						<0.01
2/20/2018		<0.01		<0.01		
2/21/2018	<0.01		<0.01		<0.01	
8/6/2018						0.0029 (J)
8/7/2018	<0.01		<0.01		<0.01	
8/8/2018		<0.01		<0.01		
2/25/2019						<0.01
2/26/2019	<0.01	<0.01	<0.01	<0.01	<0.01	
6/12/2019		0.00079 (J)		0.00088 (J)		
6/13/2019	<0.01		0.0021 (J)		<0.01	<0.01
10/8/2019						<0.01
10/9/2019	<0.01	<0.01			<0.01	
10/10/2019			0.0011 (J)	<0.01		
Mean	0.01	0.008849	0.0079	0.00886	0.01	0.009112
Std. Dev.	0	0.003256	0.003898	0.003224	0	0.00251
Upper Lim.	0.01	0.01	0.01	0.01	0.01	0.01
Lower Lim.	0.01	0.00079	0.0011	0.00088	0.01	0.0029

Confidence Interval

Constituent: Zinc (mg/L) Analysis Run 3/26/2020 6:00 PM View: Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
2/22/2017		0.0024 (J)				
2/23/2017	0.0024 (J)		0.0031 (J)			0.0038 (J)
2/24/2017				0.0028 (J)	0.0043 (J)	
5/9/2017	0.0016 (J)		0.0025 (J)			
5/10/2017		0.0022 (J)		0.0014 (J)	0.0042 (J)	0.0027 (J)
7/17/2017					0.0055 (J)	
7/18/2017	0.0015 (J)	0.0017 (J)	0.0028 (J)	0.0015 (J)		0.0024 (J)
2/19/2018						<0.01
2/20/2018		<0.01		<0.01		
2/21/2018	<0.01		0.003 (J)		0.0102	
8/6/2018						0.004 (J)
8/7/2018	0.0044 (J)		0.0036 (J)		0.015	
8/8/2018		0.0021 (J)		0.0033 (J)		
2/25/2019						0.0028 (J)
2/26/2019	0.0022 (J)	0.003 (J)	0.0033 (J)	<0.01	0.015	
6/12/2019		0.0019 (J)		<0.01		
6/13/2019	<0.01		0.0069 (J)		0.015	<0.01
10/8/2019						0.006 (J)
10/9/2019	0.0078 (J)	0.0069 (J)			0.025	
10/10/2019			0.0079 (J)	0.006 (J)		
1/21/2020					0.015	
Mean	0.004987	0.003775	0.004138	0.005625	0.01213	0.005212
Std. Dev.	0.003715	0.003026	0.002057	0.003888	0.006805	0.003162
Upper Lim.	0.01	0.01	0.0079	0.01	0.0187	0.01
Lower Lim.	0.0015	0.0017	0.0025	0.0014	0.005563	0.0024

Confidence Interval All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/19/2020, 2:19 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	GWC-1R	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-2R	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-3R	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-4R	0.003	0.0014	0.006	No	12	83.33	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-5R	0.003	0.00054	0.006	No	12	91.67	No	0.01	NP (NDs)
Antimony (mg/L)	GWC-6R	0.003	0.003	0.006	No	12	100	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-1R	0.005	0.0005	0.01	No	12	75	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-2R	0.005	0.00075	0.01	No	12	91.67	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-3R	0.005	0.0016	0.01	No	12	83.33	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-4R	0.005	0.00059	0.01	No	12	83.33	No	0.01	NP (NDs)
Arsenic (mg/L)	GWC-5R	0.005	0.00091	0.01	No	12	25	No	0.01	NP (normality)
Arsenic (mg/L)	GWC-6R	0.005	0.00068	0.01	No	12	33.33	No	0.01	NP (normality)
Barium (mg/L)	GWC-1R	0.06226	0.03333	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GWC-2R	0.05471	0.04686	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GWC-3R	0.03557	0.02197	2	No	12	0	No	0.01	Param.
Barium (mg/L)	GWC-4R	0.029	0.0151	2	No	12	0	No	0.01	NP (normality)
Barium (mg/L)	GWC-5R	0.0347	0.014	2	No	12	0	No	0.01	NP (normality)
Barium (mg/L)	GWC-6R	0.07865	0.05257	2	No	12	0	No	0.01	Param.
Beryllium (mg/L)	GWC-1R	0.003	0.000075	0.004	No	12	41.67	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-2R	0.003	0.00007	0.004	No	12	66.67	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-3R	0.00051	0.0002	0.004	No	12	8.333	No	0.01	NP (normality)
Beryllium (mg/L)	GWC-4R	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	GWC-5R	0.001843	0.0004074	0.004	No	12	8.333	sqrt(x)	0.01	Param.
Beryllium (mg/L)	GWC-6R	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-1R	0.0025	0.00008	0.005	No	12	91.67	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-2R	0.0025	0.0001	0.005	No	12	83.33	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-3R	0.0025	0.00018	0.005	No	12	75	No	0.01	NP (normality)
Cadmium (mg/L)	GWC-4R	0.0025	0.0001	0.005	No	12	91.67	No	0.01	NP (NDs)
Cadmium (mg/L)	GWC-5R	0.001172	0.000388	0.005	No	12	8.333	sqrt(x)	0.01	Param.
Cadmium (mg/L)	GWC-6R	0.0025	0.0025	0.005	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-1R	0.01	0.0009	0.1	No	12	25	No	0.01	NP (normality)
Chromium (mg/L)	GWC-2R	0.01	0.0008	0.1	No	12	83.33	No	0.01	NP (NDs)
Chromium (mg/L)	GWC-3R	0.01	0.0009	0.1	No	12	25	No	0.01	NP (normality)
Chromium (mg/L)	GWC-4R	0.01	0.00057	0.1	No	12	58.33	No	0.01	NP (normality)
Chromium (mg/L)	GWC-5R	0.01	0.0017	0.1	No	12	8.333	No	0.01	NP (normality)
Chromium (mg/L)	GWC-6R	0.01	0.0012	0.1	No	12	25	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-1R	0.005	0.0006	0.013	No	12	33.33	No	0.01	NP (normality)
Cobalt (mg/L)	GWC-3R	0.01	0.0016	0.013	No	12	83.33	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-4R	0.005	0.0006	0.013	No	12	25	No	0.01	NP (Cohens/xfrm)
Cobalt (mg/L)	GWC-5R	0.005	0.00034	0.013	No	12	83.33	No	0.01	NP (NDs)
Cobalt (mg/L)	GWC-6R	0.005	0.005	0.013	No	12	100	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	GWC-1R	1.087	0.4548	5	No	9	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-2R	1.432	0.4137	5	No	9	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-3R	0.7024	0.151	5	No	9	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-4R	0.6978	0.09566	5	No	9	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-5R	1.108	0.207	5	No	9	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	GWC-6R	1.021	0.3715	5	No	9	0	No	0.01	Param.
Fluoride (mg/L)	GWC-1R	0.3	0.05	4	No	12	66.67	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-2R	0.58	0.04	4	No	12	58.33	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-3R	0.58	0.037	4	No	12	50	No	0.01	NP (normality)

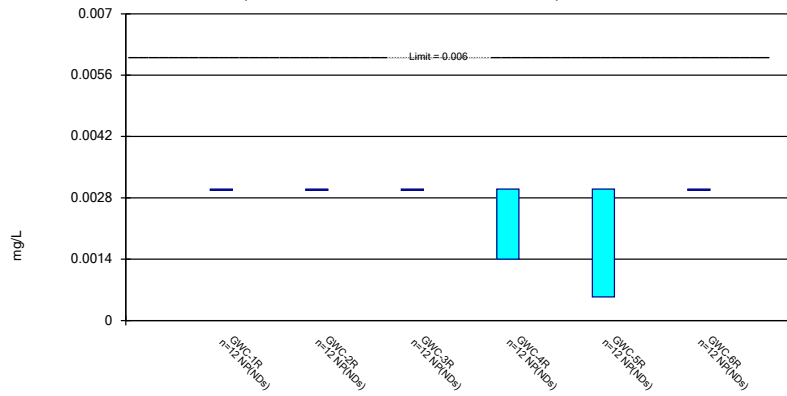
Confidence Interval All Results

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill Printed 3/19/2020, 2:19 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Fluoride (mg/L)	GWC-4R	0.3	0.08	4	No	12	66.67	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-5R	0.35	0.03	4	No	12	58.33	No	0.01	NP (normality)
Fluoride (mg/L)	GWC-6R	0.3	0.05	4	No	12	66.67	No	0.01	NP (normality)
Lead (mg/L)	GWC-1R	0.005	0.000052	0.015	No	12	91.67	No	0.01	NP (NDs)
Lead (mg/L)	GWC-2R	0.005	0.000061	0.015	No	12	66.67	No	0.01	NP (normality)
Lead (mg/L)	GWC-3R	0.005	0.000082	0.015	No	12	75	No	0.01	NP (normality)
Lead (mg/L)	GWC-4R	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lead (mg/L)	GWC-5R	0.005	0.00007	0.015	No	12	83.33	No	0.01	NP (NDs)
Lead (mg/L)	GWC-6R	0.005	0.005	0.015	No	12	100	No	0.01	NP (NDs)
Lithium (mg/L)	GWC-1R	0.03	0.0012	0.04	No	10	30	No	0.011	NP (normality)
Lithium (mg/L)	GWC-2R	0.03	0.0035	0.04	No	10	30	No	0.011	NP (normality)
Lithium (mg/L)	GWC-3R	0.03	0.03	0.04	No	10	100	No	0.011	NP (NDs)
Lithium (mg/L)	GWC-4R	0.03	0.0013	0.04	No	10	80	No	0.011	NP (NDs)
Lithium (mg/L)	GWC-5R	0.03	0.0015	0.04	No	10	80	No	0.011	NP (NDs)
Lithium (mg/L)	GWC-6R	0.03	0.002	0.04	No	9	33.33	No	0.002	NP (normality)
Mercury (mg/L)	GWC-1R	0.0002	0.000059	0.002	No	12	91.67	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-2R	0.0002	0.000071	0.002	No	12	91.67	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-3R	0.00043	0.000064	0.002	No	12	83.33	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-4R	0.0002	0.000058	0.002	No	12	91.67	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-5R	0.0002	0.00006	0.002	No	12	91.67	No	0.01	NP (NDs)
Mercury (mg/L)	GWC-6R	0.0002	0.000067	0.002	No	12	91.67	No	0.01	NP (NDs)
Molybdenum (mg/L)	GWC-1R	0.01	0.01	0.1	No	9	100	No	0.002	NP (NDs)
Molybdenum (mg/L)	GWC-2R	0.01	0.01	0.1	No	9	100	No	0.002	NP (NDs)
Molybdenum (mg/L)	GWC-3R	0.01	0.01	0.1	No	9	100	No	0.002	NP (NDs)
Molybdenum (mg/L)	GWC-4R	0.01	0.01	0.1	No	9	100	No	0.002	NP (NDs)
Molybdenum (mg/L)	GWC-5R	0.01	0.01	0.1	No	9	100	No	0.002	NP (NDs)
Molybdenum (mg/L)	GWC-6R	0.01	0.01	0.1	No	9	100	No	0.002	NP (NDs)
Selenium (mg/L)	GWC-1R	0.009544	0.002446	0.05	No	12	25	No	0.01	Param.
Selenium (mg/L)	GWC-2R	0.003466	0.002001	0.05	No	12	8.333	No	0.01	Param.
Selenium (mg/L)	GWC-3R	0.007916	0.002186	0.05	No	12	16.67	No	0.01	Param.
Selenium (mg/L)	GWC-4R	0.006844	0.003013	0.05	No	12	8.333	In(x)	0.01	Param.
Selenium (mg/L)	GWC-5R	0.02843	0.01635	0.05	No	12	0	No	0.01	Param.
Selenium (mg/L)	GWC-6R	0.004597	0.002519	0.05	No	12	8.333	No	0.01	Param.
Thallium (mg/L)	GWC-1R	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-2R	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-3R	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-4R	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-5R	0.001	0.000053	0.002	No	12	91.67	No	0.01	NP (NDs)
Thallium (mg/L)	GWC-6R	0.001	0.001	0.002	No	12	100	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

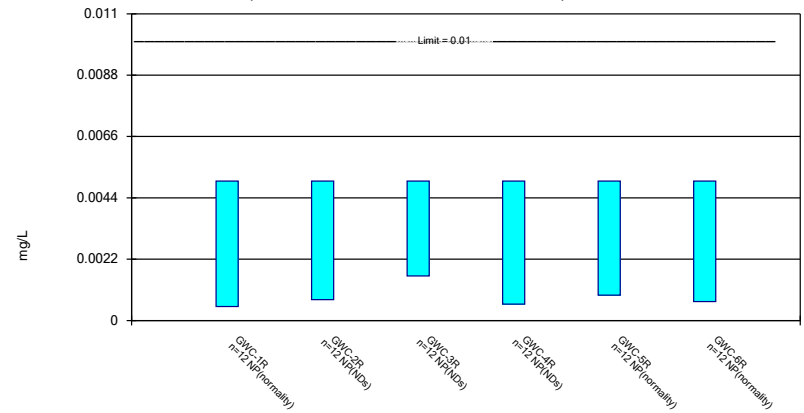
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 3/19/2020 2:16 PM View: App IV Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

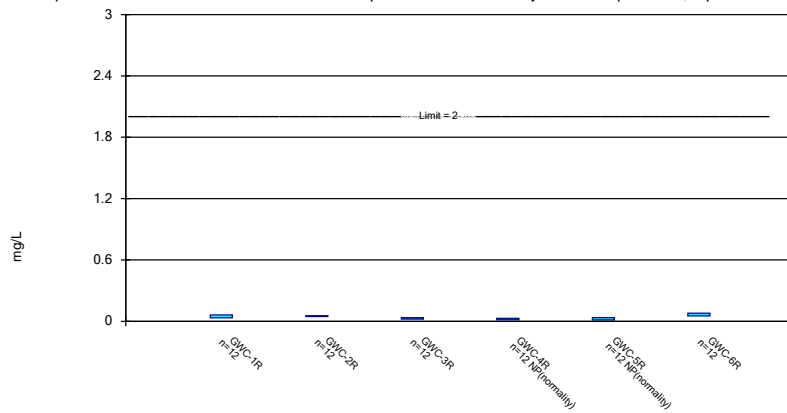
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Arsenic Analysis Run 3/19/2020 2:16 PM View: App IV Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

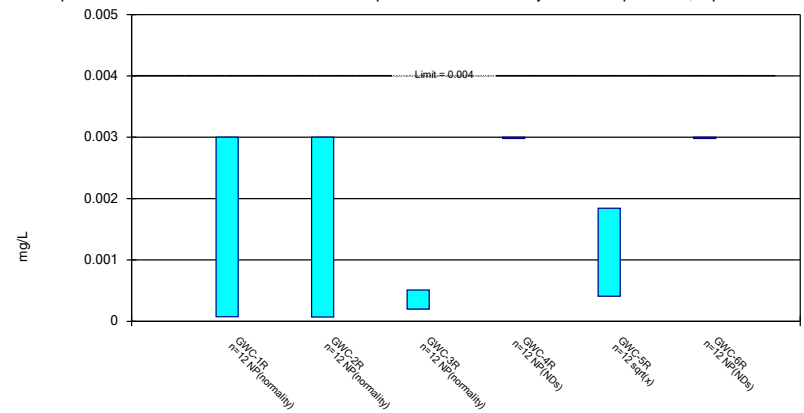
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 3/19/2020 2:17 PM View: App IV Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

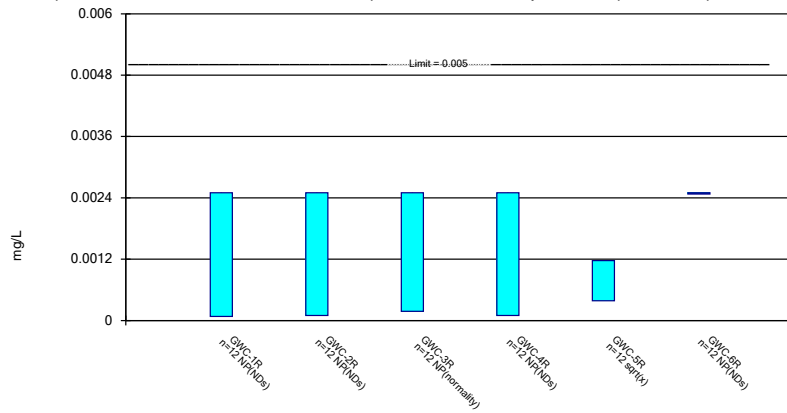
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 3/19/2020 2:17 PM View: App IV Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric and Non-Parametric (NP) Confidence Interval

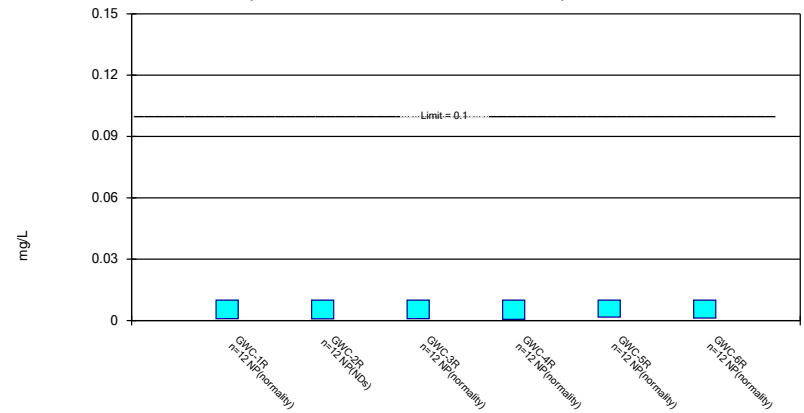
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 3/19/2020 2:17 PM View: App IV Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

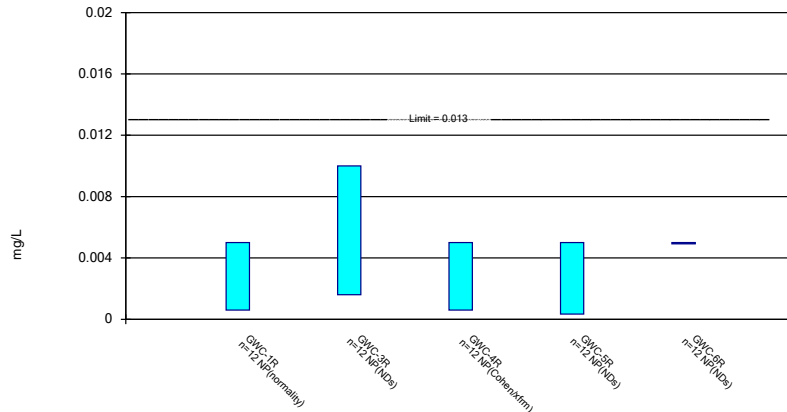
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 3/19/2020 2:17 PM View: App IV Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

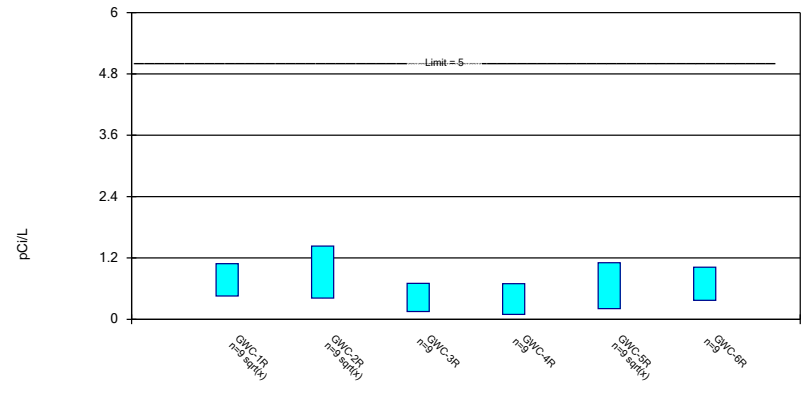
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cobalt Analysis Run 3/19/2020 2:17 PM View: App IV Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric Confidence Interval

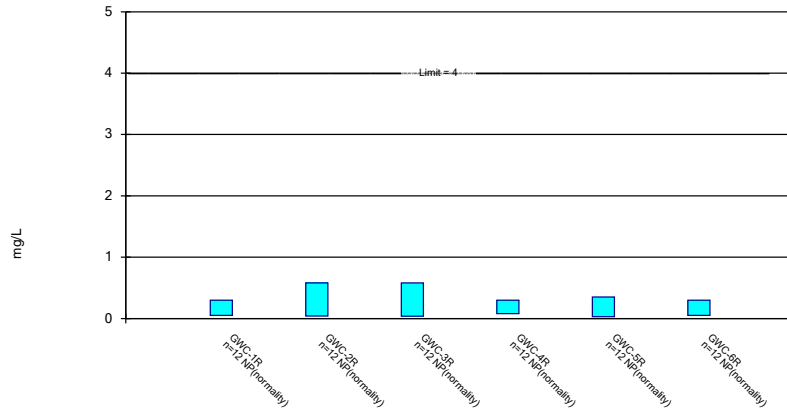
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 3/19/2020 2:17 PM View: App IV Confidence Inte
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

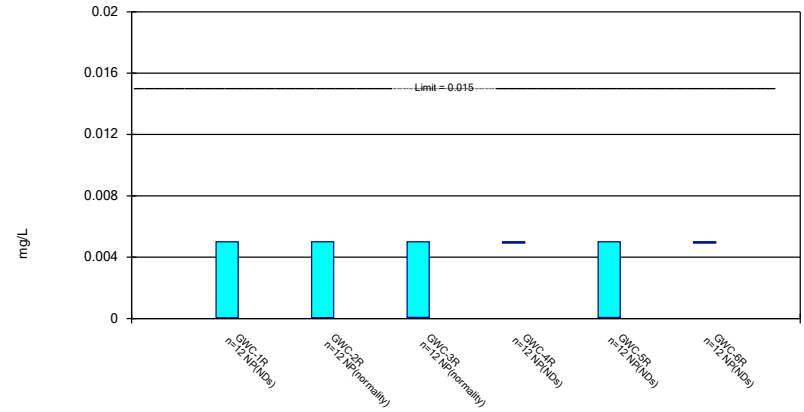
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Fluoride Analysis Run 3/19/2020 2:17 PM View: App IV Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

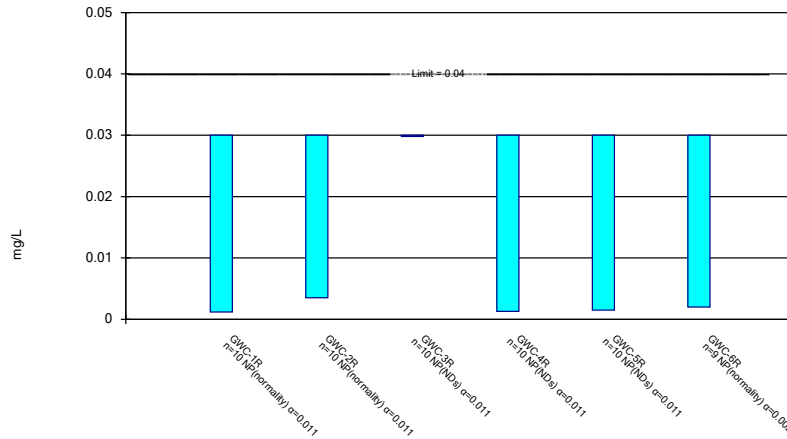
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 3/19/2020 2:17 PM View: App IV Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

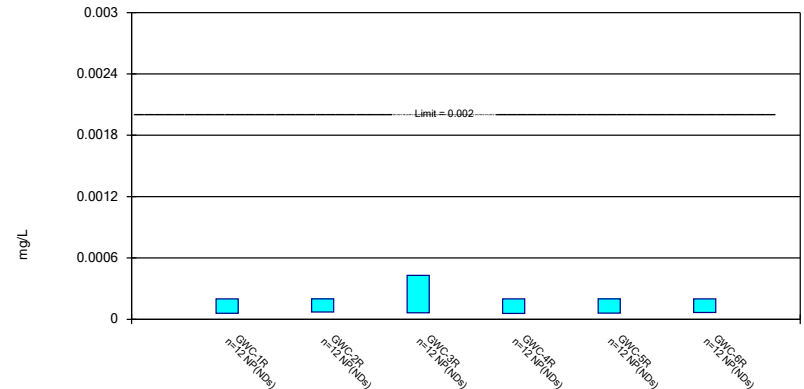
Compliance Limit is not exceeded.



Constituent: Lithium Analysis Run 3/19/2020 2:17 PM View: App IV Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

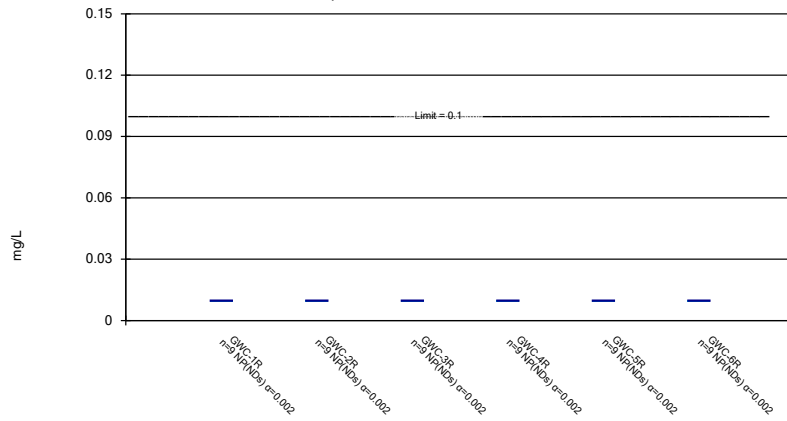
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 3/19/2020 2:17 PM View: App IV Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

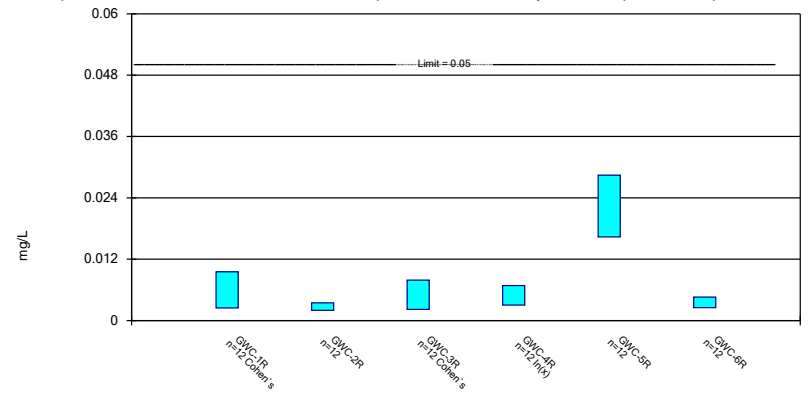
Compliance Limit is not exceeded.



Constituent: Molybdenum Analysis Run 3/19/2020 2:17 PM View: App IV Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Parametric Confidence Interval

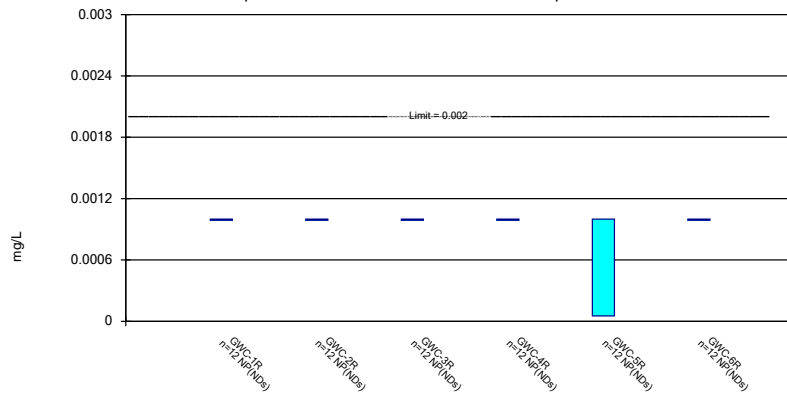
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 3/19/2020 2:17 PM View: App IV Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 3/19/2020 2:17 PM View: App IV Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 3/19/2020 2:19 PM View: App 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	<0.003	<0.003	<0.003			
9/1/2016				0.0014 (J)	<0.003	<0.003
11/28/2016		<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				
2/23/2017	<0.003		<0.003			<0.003
2/24/2017				<0.003	<0.003	
5/9/2017	<0.003		<0.003			
5/10/2017		<0.003		<0.003	<0.003	<0.003
7/17/2017					<0.003	
7/18/2017	<0.003	<0.003	<0.003	<0.003		<0.003
10/16/2017					<0.003	
10/17/2017	<0.003	<0.003		<0.003		
10/18/2017			<0.003			<0.003
2/19/2018						<0.003
2/20/2018		<0.003		<0.003		
2/21/2018	<0.003		<0.003		<0.003	
8/6/2018						<0.003
8/7/2018	<0.003		<0.003		<0.003	
8/8/2018		<0.003		<0.003		
2/25/2019						<0.003
2/26/2019	<0.003	<0.003	<0.003	<0.003	<0.003	
6/12/2019		<0.003		0.00028 (J)		
6/13/2019	<0.003		<0.003		<0.003	<0.003
8/19/2019				<0.003		
8/20/2019	<0.003	<0.003				<0.003
8/21/2019			<0.003		0.00054 (J)	
10/8/2019						<0.003
10/9/2019	<0.003	<0.003			<0.003	
10/10/2019			<0.003	<0.003		
Mean	0.003	0.003	0.003	0.00264	0.002795	0.003
Std. Dev.	0	0	0	0.000874	0.0007101	0
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.003	0.003	0.003	0.0014	0.00054	0.003

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 3/19/2020 2:19 PM View: App 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	<0.005	<0.005	<0.005			
9/1/2016				<0.005	<0.005	<0.005
11/28/2016		<0.005				
11/29/2016	<0.005					<0.005
11/30/2016			<0.005	<0.005		
12/1/2016					<0.005	
2/22/2017		<0.005				
2/23/2017	<0.005		<0.005			<0.005
2/24/2017				<0.005	<0.005	
5/9/2017	0.0005 (J)		<0.005			
5/10/2017		<0.005		<0.005	0.0011 (J)	0.0007 (J)
7/17/2017					0.0013 (J)	
7/18/2017	<0.005	<0.005	<0.005	<0.005		0.001 (J)
10/16/2017					0.0011 (J)	
10/17/2017	0.0009 (J)	<0.005		<0.005		
10/18/2017			<0.005			0.0011 (J)
2/19/2018						<0.005
2/20/2018		<0.005		<0.005		
2/21/2018	<0.005		<0.005		0.00091 (J)	
8/6/2018						0.0023 (J)
8/7/2018	<0.005		<0.005		0.0021 (J)	
8/8/2018		<0.005		<0.005		
2/25/2019						0.00073 (J)
2/26/2019	<0.005	<0.005	<0.005	<0.005	0.00069 (J)	
6/12/2019		<0.005		0.00037 (J)		
6/13/2019	<0.005		0.0016 (J)		0.0012 (J)	0.00068 (J)
8/19/2019				0.00059 (J)		
8/20/2019	0.00044 (J)	0.00075 (J)				0.00072 (J)
8/21/2019			0.00061 (J)		0.00094 (J)	
10/8/2019						0.00056 (J)
10/9/2019	<0.005	<0.005			0.0012 (J)	
10/10/2019			<0.005	<0.005		
Mean	0.003903	0.004646	0.004351	0.004247	0.002128	0.002316
Std. Dev.	0.001987	0.001227	0.001531	0.00176	0.001764	0.002033
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0005	0.00075	0.0016	0.00059	0.00091	0.00068

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 3/19/2020 2:19 PM View: App 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	0.0711	0.0601	0.0286			
9/1/2016				0.0377	0.0345	0.0536
11/28/2016		0.0562				
11/29/2016	0.0754					0.0459
11/30/2016			0.0258	0.0148		
12/1/2016					0.0342	
2/22/2017		0.0481				
2/23/2017	0.0646		0.0278			0.0581
2/24/2017				0.029	0.0347	
5/9/2017	0.0463		0.0308			
5/10/2017		0.0563		0.0182	0.0363	0.0873
7/17/2017					0.0274	
7/18/2017	0.039	0.049	0.0407	0.0187		0.0994
10/16/2017					0.0151	
10/17/2017	0.0349	0.047		0.0157		
10/18/2017			0.049			0.0757
2/19/2018						0.0703
2/20/2018		0.0467		0.0151		
2/21/2018	0.0322		0.0285		0.0174	
8/6/2018						0.076
8/7/2018	0.025		0.029		0.015	
8/8/2018		0.049		0.019		
2/25/2019						0.045
2/26/2019	0.028	0.056	0.026	0.017	0.014	
6/12/2019		0.046		0.017		
6/13/2019	0.033		0.021		0.014	0.062
8/19/2019				0.02		
8/20/2019	0.07	0.05				0.06
8/21/2019			0.02		0.014	
10/8/2019						0.054
10/9/2019	0.054	0.045			0.015	
10/10/2019			0.018	0.018		
Mean	0.04779	0.05078	0.02877	0.02002	0.02263	0.06561
Std. Dev.	0.01844	0.005003	0.008668	0.006686	0.009789	0.01662
Upper Lim.	0.06226	0.05471	0.03557	0.029	0.0347	0.07865
Lower Lim.	0.03333	0.04686	0.02197	0.0151	0.014	0.05257

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 3/19/2020 2:19 PM View: App 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	0.0001 (J)	<0.003	0.0003 (J)			
9/1/2016				<0.003	0.0005 (J)	<0.003
11/28/2016		<0.003				
11/29/2016	<0.003					<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)			<0.003
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)	<0.003
7/17/2017					0.0004 (J)	
7/18/2017	<0.003	<0.003	0.0002 (J)	<0.003		<0.003
10/16/2017					0.0006 (J)	
10/17/2017	0.0001 (J)	<0.003		<0.003		
10/18/2017			0.0004 (J)			<0.003
2/19/2018						<0.003
2/20/2018		<0.003		<0.003		
2/21/2018	<0.003		<0.003		<0.003	
8/6/2018						<0.003
8/7/2018	7.4E-05 (J)		0.00026 (J)		0.00096 (J)	
8/8/2018		7E-05 (J)		<0.003		
2/25/2019						<0.003
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)	<0.003
8/19/2019				<0.003		
8/20/2019	0.0001 (J)	0.00017 (J)				<0.003
8/21/2019			0.00046 (J)		0.0028 (J)	
10/8/2019						<0.003
10/9/2019	0.00013 (J)	0.00014 (J)			0.0022 (J)	
10/10/2019			0.00039 (J)	<0.003		
Mean	0.001305	0.002036	0.0005667	0.003	0.001188	0.003
Std. Dev.	0.001496	0.001424	0.0007724	0	0.001007	0
Upper Lim.	0.003	0.003	0.00051	0.003	0.001843	0.003
Lower Lim.	7.5E-05	7E-05	0.0002	0.003	0.0004074	0.003

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 3/19/2020 2:19 PM View: App 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	<0.0025	0.0001 (J)	<0.0025			
9/1/2016				0.0001 (J)	0.0005 (J)	<0.0025
11/28/2016		0.0001 (J)				
11/29/2016	8E-05 (J)					<0.0025
11/30/2016			<0.0025	<0.0025		
12/1/2016					0.0004 (J)	
2/22/2017		<0.0025				
2/23/2017	<0.0025		<0.0025			<0.0025
2/24/2017				<0.0025	0.0003 (J)	
5/9/2017	<0.0025		<0.0025			
5/10/2017		<0.0025		<0.0025	0.0003 (J)	<0.0025
7/17/2017					0.0004 (J)	
7/18/2017	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025
10/16/2017					0.0006 (J)	
10/17/2017	<0.0025	<0.0025		<0.0025		
10/18/2017			<0.0025			<0.0025
2/19/2018						<0.0025
2/20/2018		<0.0025		<0.0025		
2/21/2018	<0.0025		<0.0025		<0.0025	
8/6/2018						<0.0025
8/7/2018	<0.0025		<0.0025		0.00083 (J)	
8/8/2018		<0.0025		<0.0025		
2/25/2019						<0.0025
2/26/2019	<0.0025	<0.0025	0.00011 (J)	<0.0025	0.00081 (J)	
6/12/2019		<0.0025		<0.0025		
6/13/2019	<0.0025		0.00021 (J)		0.00073 (J)	<0.0025
8/19/2019				<0.0025		
8/20/2019	<0.0025	<0.0025				<0.0025
8/21/2019			<0.0025		0.0012 (J)	
10/8/2019						<0.0025
10/9/2019	<0.0025	<0.0025			0.0011 (J)	
10/10/2019			0.00018 (J)	<0.0025		
Mean	0.002298	0.0021	0.001917	0.0023	0.0008058	0.0025
Std. Dev.	0.0006986	0.0009342	0.001056	0.0006928	0.0006102	0
Upper Lim.	0.0025	0.0025	0.0025	0.0025	0.001172	0.0025
Lower Lim.	8E-05	0.0001	0.00018	0.0001	0.000388	0.0025

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 3/19/2020 2:19 PM View: App 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	0.0012 (J)	<0.01	0.0013 (J)			
9/1/2016				<0.01	0.0021 (J)	0.0015 (J)
11/28/2016		<0.01				
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		<0.01				
2/23/2017	0.001 (J)		0.0012 (J)			0.0017 (J)
2/24/2017				<0.01	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)	<0.01	0.0009 (J)	0.0011 (J)		0.0012 (J)
10/16/2017					0.0023 (J)	
10/17/2017	0.001 (J)	<0.01		<0.01		
10/18/2017			0.001 (J)			0.0012 (J)
2/19/2018						<0.01
2/20/2018		<0.01		<0.01		
2/21/2018	<0.01		<0.01		<0.01	
8/6/2018						<0.01
8/7/2018	<0.01		<0.01		0.0024 (J)	
8/8/2018		<0.01		<0.01		
2/25/2019						<0.01
2/26/2019	<0.01	<0.01	<0.01	<0.01	0.0019 (J)	
6/12/2019		<0.01		<0.01		
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)	<0.01				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)		
Mean	0.003267	0.008449	0.003344	0.006182	0.002742	0.003541
Std. Dev.	0.004062	0.003622	0.00402	0.004723	0.002304	0.003901
Upper Lim.	0.01	0.01	0.01	0.01	0.01	0.01
Lower Lim.	0.0009	0.0008	0.0009	0.00057	0.0017	0.0012

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 3/19/2020 2:19 PM View: App IV Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	0.0006 (J)	<0.005			
9/1/2016			0.0023 (J)	<0.005	<0.005
11/29/2016	<0.005				<0.005
11/30/2016		<0.005	0.0008 (J)		
12/1/2016				<0.005	
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			<0.005	<0.005	<0.005
7/17/2017				<0.005	
7/18/2017	0.0032 (J)	<0.005	0.0005 (J)		<0.005
10/16/2017				<0.005	
10/17/2017	0.0007 (J)		0.0006 (J)		
10/18/2017		<0.005			<0.005
2/19/2018					<0.005
2/20/2018			<0.005		
2/21/2018	<0.005	<0.005		<0.005	
8/6/2018					<0.005
8/7/2018	<0.005	<0.005		<0.005	
8/8/2018			0.001 (J)		
2/25/2019					<0.005
2/26/2019	<0.005	<0.005	<0.005	<0.005	
6/12/2019			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)				<0.005
8/21/2019		0.0016 (J)		0.00034 (J)	
10/8/2019					<0.005
10/9/2019	0.00064 (J)			0.00031 (J)	
10/10/2019		<0.005	0.00099 (J)		
Mean	0.00233	0.005133	0.002122	0.004221	0.005
Std. Dev.	0.002101	0.001818	0.001842	0.00182	0
Upper Lim.	0.005	0.01	0.005	0.005	0.005
Lower Lim.	0.0006	0.0016	0.0006	0.00034	0.005

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 3/19/2020 2:19 PM View: App 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)		
Mean	0.7692	0.9193	0.4267	0.3967	0.6532	0.696
Std. Dev.	0.3486	0.5792	0.2856	0.3118	0.521	0.3361
Upper Lim.	1.087	1.432	0.7024	0.6978	1.108	1.021
Lower Lim.	0.4548	0.4137	0.151	0.09566	0.207	0.3715

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 3/19/2020 2:19 PM View: App 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					<0.3	
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)		<0.3			
5/10/2017		0.05 (J)		0.04 (J)	<0.3	0.02 (J)
7/17/2017					0.37	
7/18/2017	<0.3	<0.3	<0.3	<0.3		<0.3
10/16/2017					<0.3	
10/17/2017	<0.3	<0.3		<0.3		
10/18/2017			0.22 (J)			<0.3
2/19/2018						<0.3
2/20/2018		<0.3		<0.3		
2/21/2018	<0.3		<0.3		<0.3	
8/6/2018						<0.3
8/7/2018	<0.3		<0.3		<0.3	
8/8/2018		<0.3		<0.3		
2/25/2019						<0.3
2/26/2019	<0.3	<0.3	<0.3	<0.3	0.035 (J)	
6/12/2019		0.58		<0.3		
6/13/2019	<0.3		0.58		<0.3	<0.3
8/19/2019				<0.3		
8/20/2019	<0.3	<0.3				<0.3
8/21/2019			0.037 (J)		<0.3	
10/8/2019						<0.3
10/9/2019	<0.3	<0.3			0.35	
10/10/2019			<0.3	<0.3		
Mean	0.2175	0.24	0.2314	0.2317	0.2429	0.235
Std. Dev.	0.122	0.1614	0.1626	0.1038	0.1294	0.1142
Upper Lim.	0.3	0.58	0.58	0.3	0.35	0.3
Lower Lim.	0.05	0.04	0.037	0.08	0.03	0.05

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 3/19/2020 2:19 PM View: App 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	<0.005	<0.005	0.0001 (J)			
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	<0.005		<0.005			
5/10/2017		0.0001 (J)		<0.005	<0.005	<0.005
7/17/2017					<0.005	
7/18/2017	<0.005	7E-05 (J)	<0.005	<0.005		<0.005
10/16/2017					<0.005	
10/17/2017	<0.005	<0.005		<0.005		
10/18/2017			8E-05 (J)			<0.005
2/19/2018						<0.005
2/20/2018		<0.005		<0.005		
2/21/2018	<0.005		<0.005		<0.005	
8/6/2018						<0.005
8/7/2018	<0.005		<0.005		<0.005	
8/8/2018		<0.005		<0.005		
2/25/2019						<0.005
2/26/2019	<0.005	<0.005	<0.005	<0.005	<0.005	
6/12/2019		<0.005		<0.005		
6/13/2019	<0.005		<0.005		<0.005	<0.005
8/19/2019				<0.005		
8/20/2019	<0.005	6.1E-05 (J)				<0.005
8/21/2019			8.2E-05 (J)		7E-05 (J)	
10/8/2019						<0.005
10/9/2019	5.2E-05 (J)	5.7E-05 (J)			5.9E-05 (J)	
10/10/2019			<0.005	<0.005		
Mean	0.004588	0.003357	0.003772	0.005	0.004177	0.005
Std. Dev.	0.001428	0.002426	0.002222	0	0.001921	0
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	5.2E-05	6.1E-05	8.2E-05	0.005	7E-05	0.005

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 3/19/2020 2:19 PM View: App 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	
8/7/2018	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)		
Mean	0.01009	0.01162	0.03	0.02422	0.02429	0.01188
Std. Dev.	0.01375	0.01269	0	0.01218	0.01204	0.01363
Upper Lim.	0.03	0.03	0.03	0.03	0.03	0.03
Lower Lim.	0.0012	0.0035	0.03	0.0013	0.0015	0.002

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 3/19/2020 2:19 PM View: App 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	<0.0002	<0.0002	<0.0002			
9/1/2016				<0.0002	<0.0002	<0.0002
11/28/2016		<0.0002				
11/29/2016	<0.0002					<0.0002
11/30/2016			<0.0002	<0.0002		
12/1/2016					<0.0002	
2/22/2017		<0.0002				
2/23/2017	<0.0002		<0.0002			<0.0002
2/24/2017				<0.0002	<0.0002	
5/9/2017	<0.0002		<0.0002			
5/10/2017		<0.0002		<0.0002	<0.0002	<0.0002
7/17/2017					<0.0002	
7/18/2017	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002
10/16/2017					<0.0002	
10/17/2017	<0.0002	<0.0002		<0.0002		
10/18/2017			<0.0002			<0.0002
2/19/2018						<0.0002
2/20/2018		<0.0002		<0.0002		
2/21/2018	<0.0002		<0.0002		<0.0002	
8/6/2018						<0.0002
8/7/2018	<0.0002		<0.0002		<0.0002	
8/8/2018		<0.0002		<0.0002		
2/25/2019						6.7E-05 (J)
2/26/2019	5.9E-05 (J)	7.1E-05 (J)	6.4E-05 (J)	5.8E-05 (J)	6E-05 (J)	
6/12/2019		<0.0002		<0.0002		
6/13/2019	<0.0002		<0.0002		<0.0002	<0.0002
8/19/2019				<0.0002		
8/20/2019	<0.0002	<0.0002				<0.0002
8/21/2019			<0.0002		<0.0002	
10/8/2019						<0.0002
10/9/2019	<0.0002	<0.0002			<0.0002	
10/10/2019			0.00043 (J)	<0.0002		
Mean	0.0001882	0.0001892	0.0002078	0.0001882	0.0001883	0.0001889
Std. Dev.	4.07E-05	3.724E-05	8.015E-05	4.099E-05	4.041E-05	3.839E-05
Upper Lim.	0.0002	0.0002	0.00043	0.0002	0.0002	0.0002
Lower Lim.	5.9E-05	7.1E-05	6.4E-05	5.8E-05	6E-05	6.7E-05

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 3/19/2020 2:19 PM View: App 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	0.0039 (J)	0.0029 (J)	0.0038 (J)			
9/1/2016				0.0132	0.0212	0.002 (J)
11/28/2016		0.0019 (J)				
11/29/2016	0.0033 (J)					0.0017 (J)
11/30/2016			0.0054 (J)	0.0046 (J)		
12/1/2016					0.0234	
2/22/2017		0.0015 (J)				
2/23/2017	0.0097 (J)		0.002 (J)			0.0018 (J)
2/24/2017				0.0108	0.0154	
5/9/2017	0.0066 (J)		<0.01			
5/10/2017		0.0016 (J)		0.0054 (J)	0.0152	0.0023 (J)
7/17/2017					0.0136	
7/18/2017	0.0021 (J)	0.0024 (J)	0.0027 (J)	0.0047 (J)		0.0046 (J)
10/16/2017					0.0242	
10/17/2017	0.003 (J)	0.0028 (J)		0.004 (J)		
10/18/2017			0.0047 (J)			0.0037 (J)
2/19/2018						<0.01
2/20/2018		<0.01		<0.01		
2/21/2018	<0.01		<0.01		0.0127	
8/6/2018						0.0047 (J)
8/7/2018	<0.01		0.0016 (J)		0.021	
8/8/2018		0.0025 (J)		0.0041 (J)		
2/25/2019						0.0051 (J)
2/26/2019	0.0014 (J)	0.003 (J)	0.002 (J)	0.0027 (J)	0.024	
6/12/2019		0.0034 (J)		0.0029 (J)		
6/13/2019	<0.01		0.0089 (J)		0.027	0.0048 (J)
8/19/2019				0.003 (J)		
8/20/2019	0.0022 (J)	0.0032 (J)				0.0039 (J)
8/21/2019			0.004 (J)		0.037	
10/8/2019						0.0031 (J)
10/9/2019	0.0023 (J)	0.0026 (J)			0.034	
10/10/2019			0.0021 (J)	0.0024 (J)		
Mean	0.004125	0.002733	0.003933	0.005233	0.02239	0.003558
Std. Dev.	0.002337	0.0009335	0.002078	0.003343	0.007696	0.001324
Upper Lim.	0.009544	0.003466	0.007916	0.006844	0.02843	0.004597
Lower Lim.	0.002446	0.002001	0.002186	0.003013	0.01635	0.002519

Confidence Interval

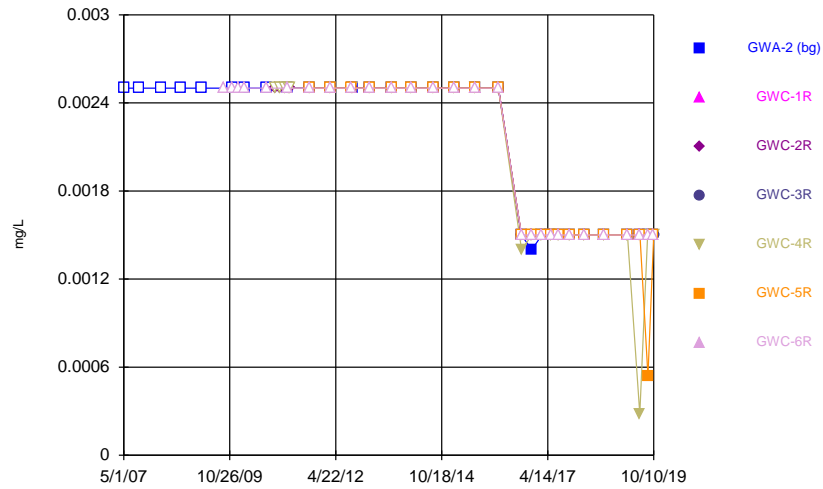
Constituent: Thallium (mg/L) Analysis Run 3/19/2020 2:19 PM View: App IV Confidence Interval

Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

	GWC-1R	GWC-2R	GWC-3R	GWC-4R	GWC-5R	GWC-6R
8/31/2016	<0.001	<0.001	<0.001			
9/1/2016				<0.001	<0.001	<0.001
11/28/2016		<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				
2/23/2017	<0.001		<0.001			<0.001
2/24/2017				<0.001	<0.001	
5/9/2017	<0.001		<0.001			
5/10/2017		<0.001		<0.001	<0.001	<0.001
7/17/2017					<0.001	
7/18/2017	<0.001	<0.001	<0.001	<0.001		<0.001
10/16/2017					<0.001	
10/17/2017	<0.001	<0.001		<0.001		
10/18/2017			<0.001			<0.001
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		
6/13/2019	<0.001		<0.001		<0.001	<0.001
8/19/2019				<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
10/9/2019	<0.001	<0.001			<0.001	
10/10/2019			<0.001	<0.001		
Mean	0.001	0.001	0.001	0.001	0.0009211	0.001
Std. Dev.	0	0	0	0	0.0002734	0
Upper Lim.	0.001	0.001	0.001	0.001	0.001	0.001
Lower Lim.	0.001	0.001	0.001	0.001	5.3E-05	0.001

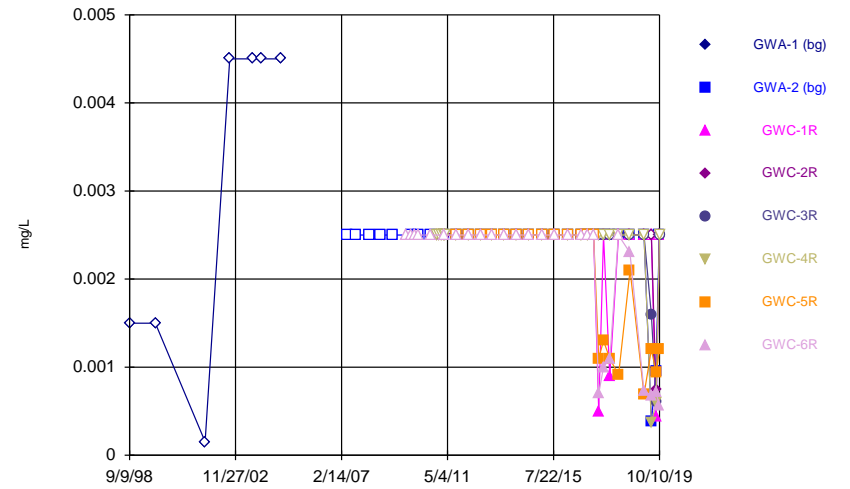
Time Series Plots (through October 2019)

Time Series



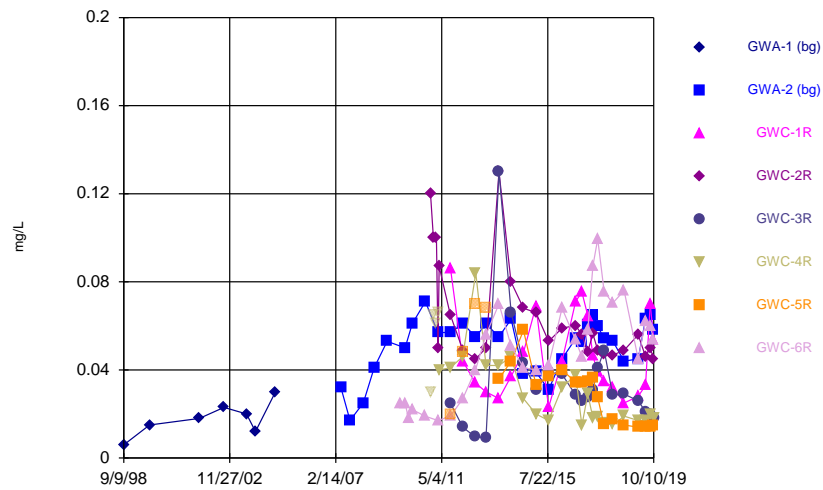
Constituent: Antimony Analysis Run 3/31/2020 11:24 AM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



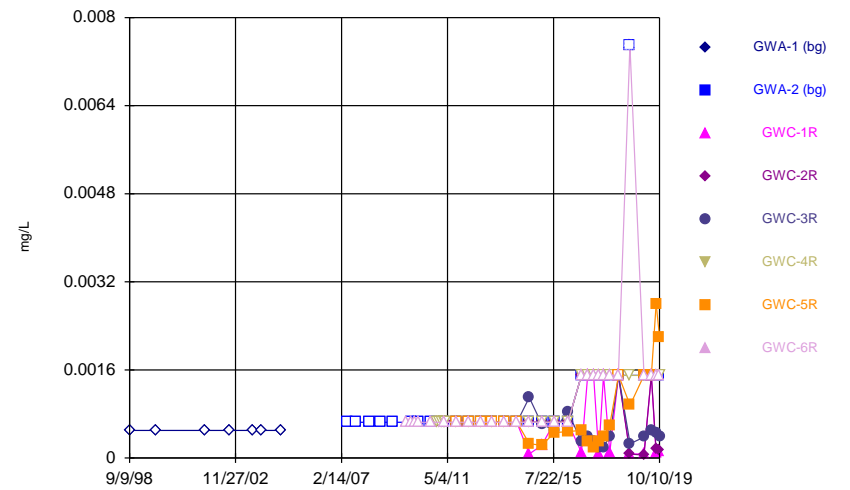
Constituent: Arsenic Analysis Run 3/31/2020 11:24 AM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



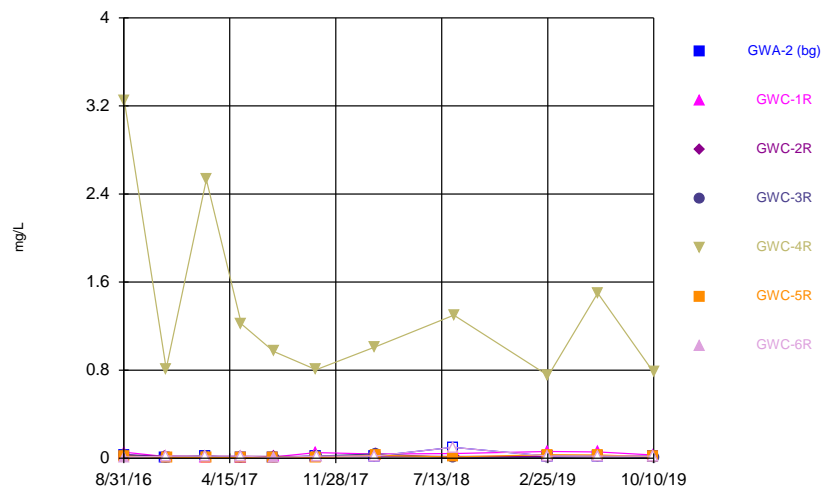
Constituent: Barium Analysis Run 3/31/2020 11:24 AM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



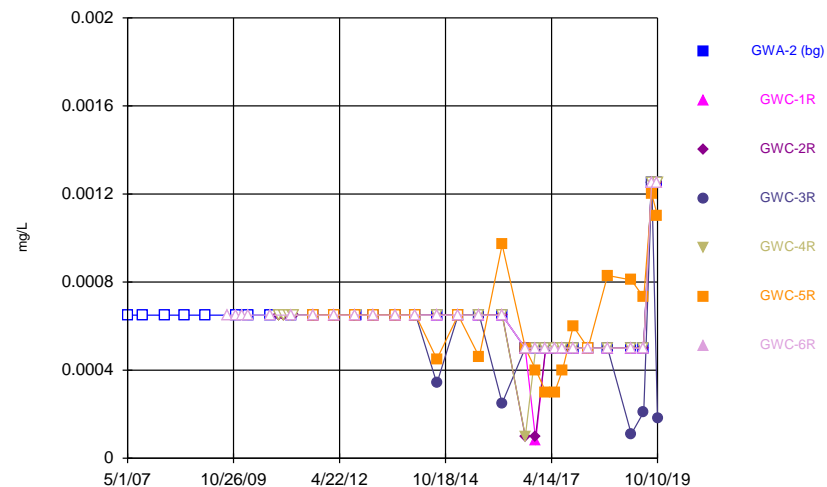
Constituent: Beryllium Analysis Run 3/31/2020 11:24 AM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



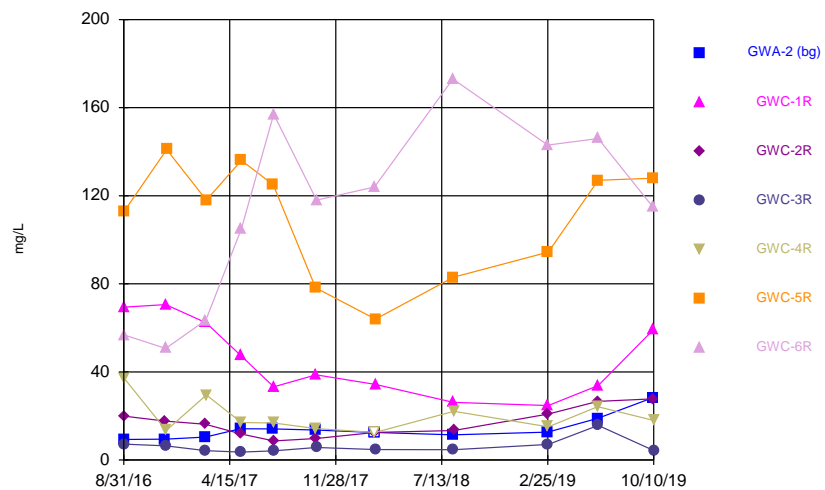
Constituent: Boron Analysis Run 3/31/2020 11:24 AM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



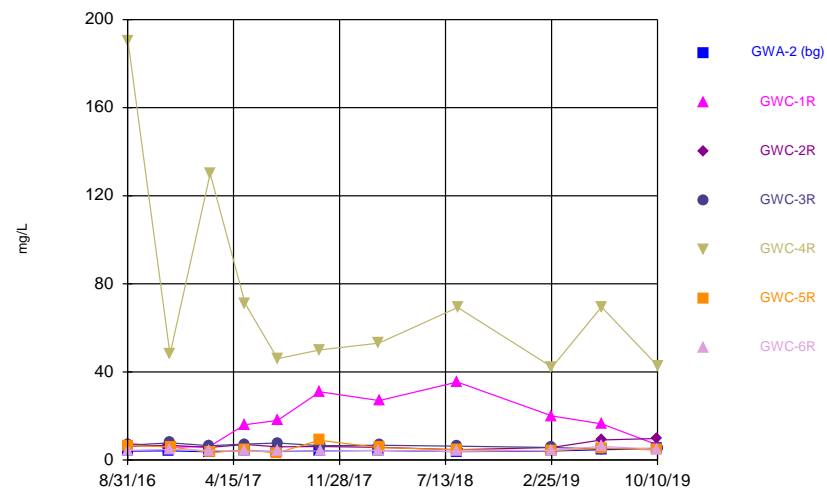
Constituent: Cadmium Analysis Run 3/31/2020 11:24 AM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



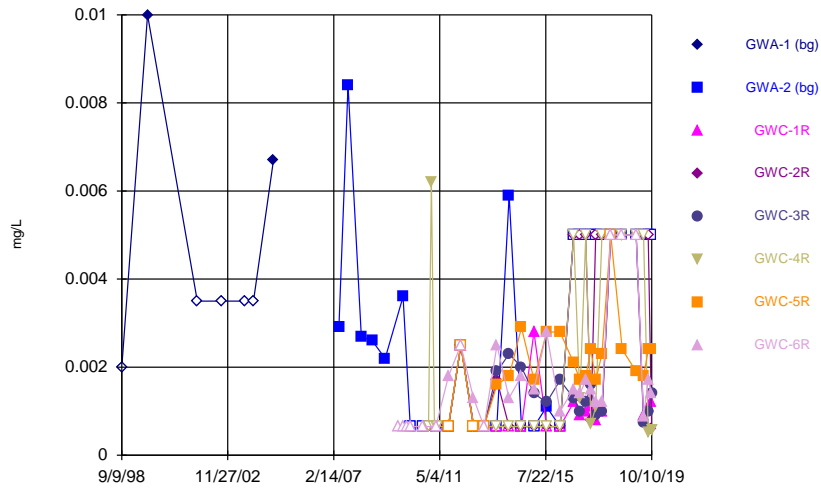
Constituent: Calcium Analysis Run 3/31/2020 11:24 AM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



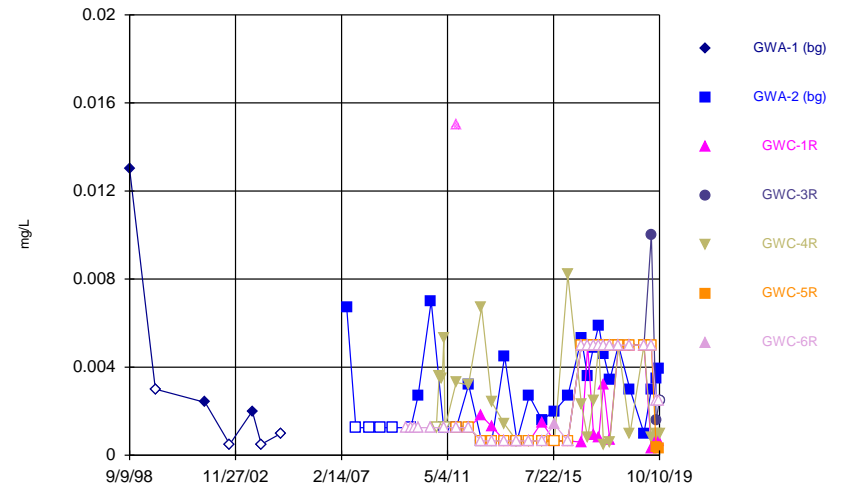
Constituent: Chloride Analysis Run 3/31/2020 11:24 AM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



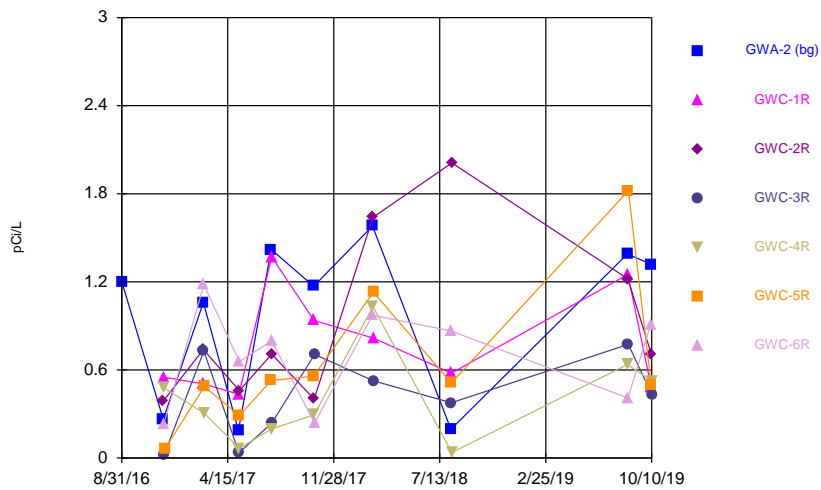
Constituent: Chromium Analysis Run 3/31/2020 11:24 AM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



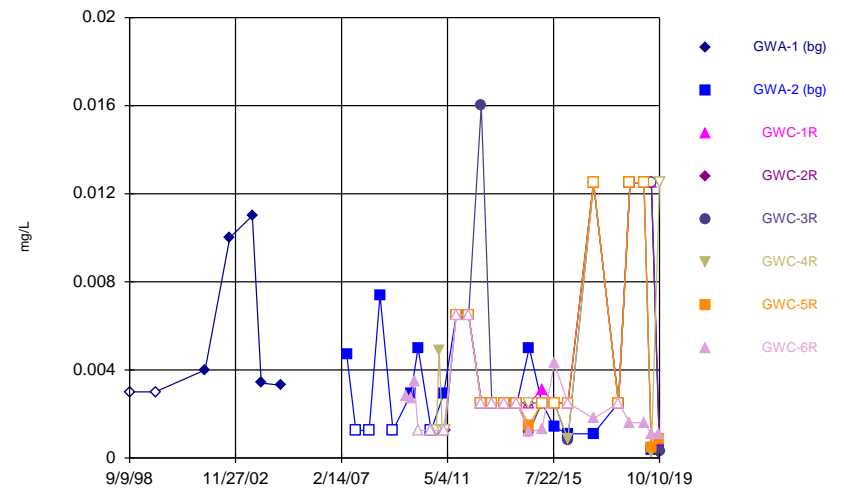
Constituent: Cobalt Analysis Run 3/31/2020 11:24 AM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



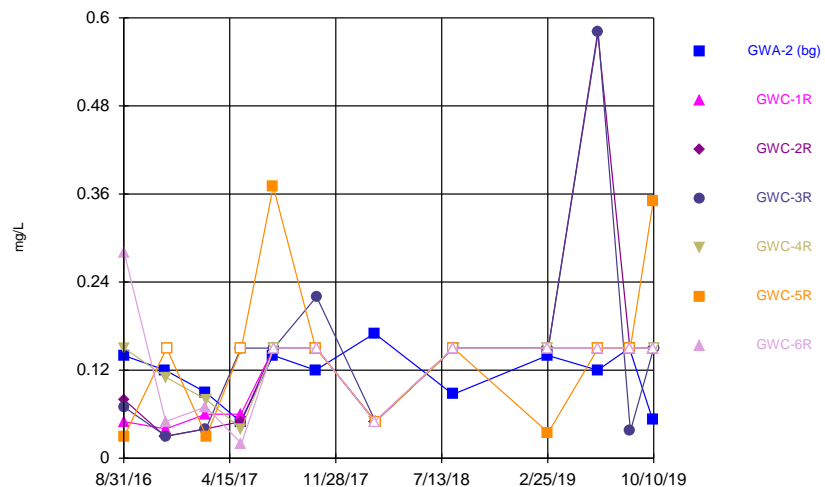
Constituent: Combined Radium 226 + 228 Analysis Run 3/31/2020 11:24 AM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



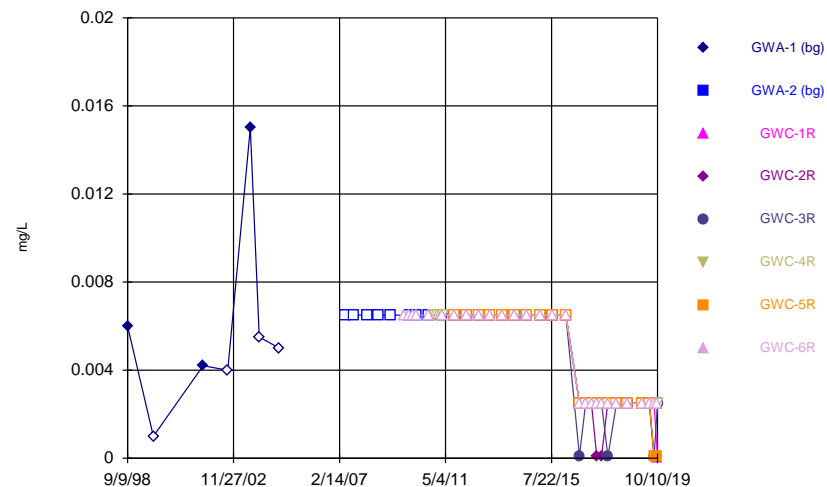
Constituent: Copper Analysis Run 3/31/2020 11:24 AM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



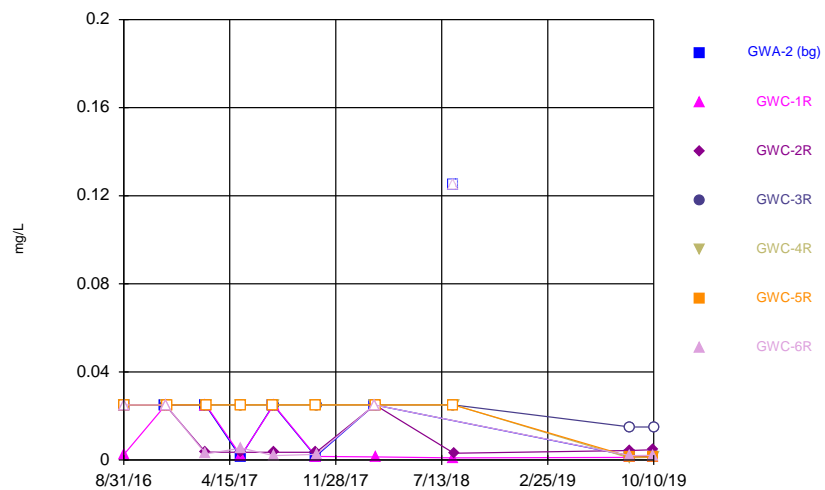
Constituent: Fluoride Analysis Run 3/31/2020 11:24 AM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



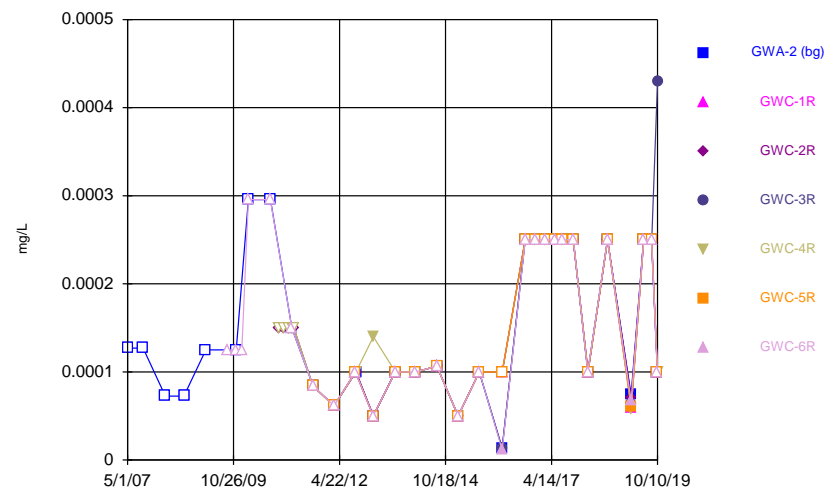
Constituent: Lead Analysis Run 3/31/2020 11:24 AM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



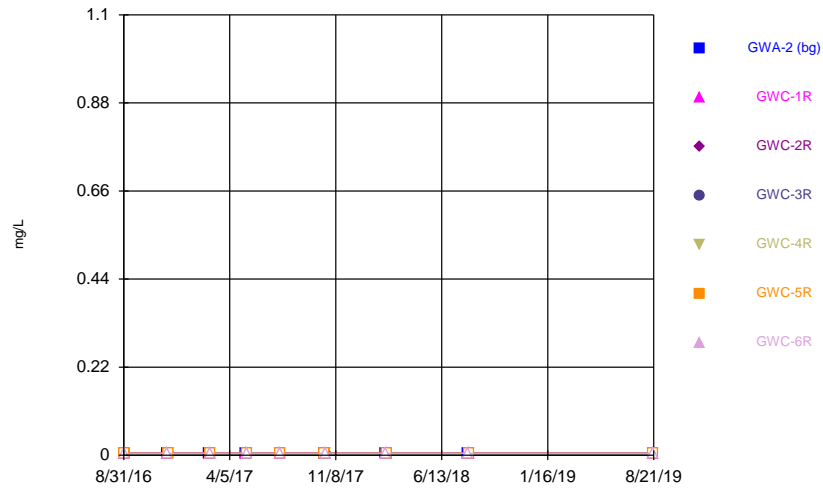
Constituent: Lithium Analysis Run 3/31/2020 11:24 AM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



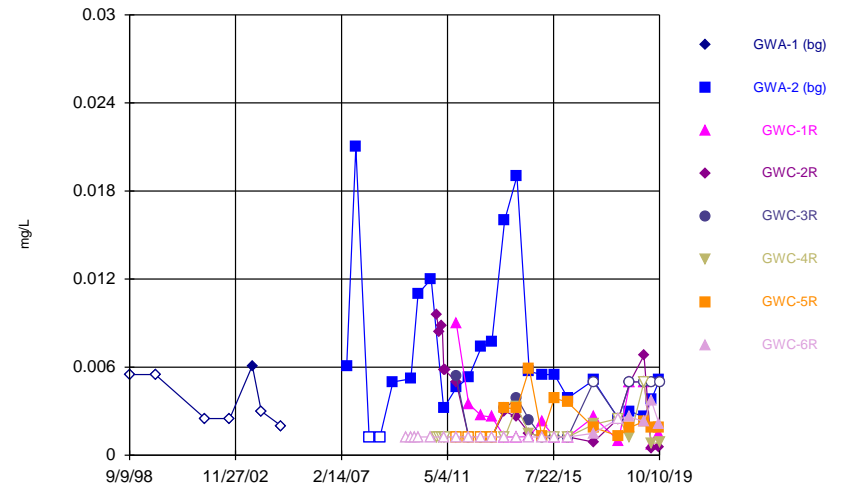
Constituent: Mercury Analysis Run 3/31/2020 11:24 AM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



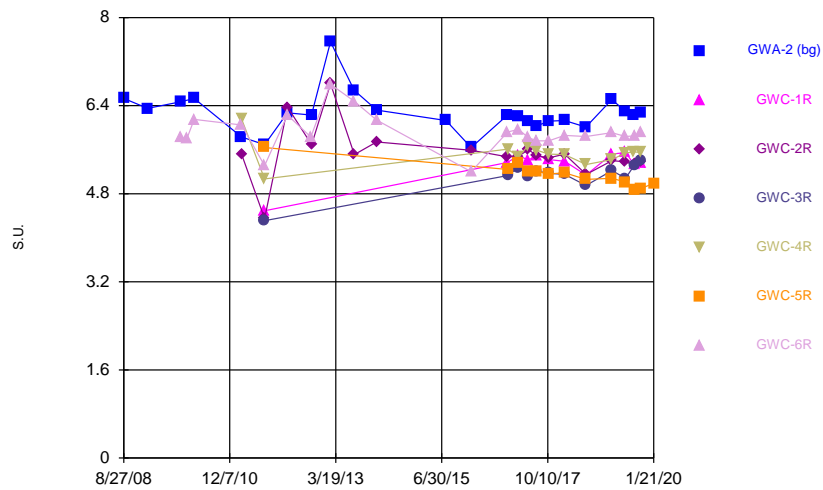
Constituent: Molybdenum Analysis Run 3/31/2020 11:24 AM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



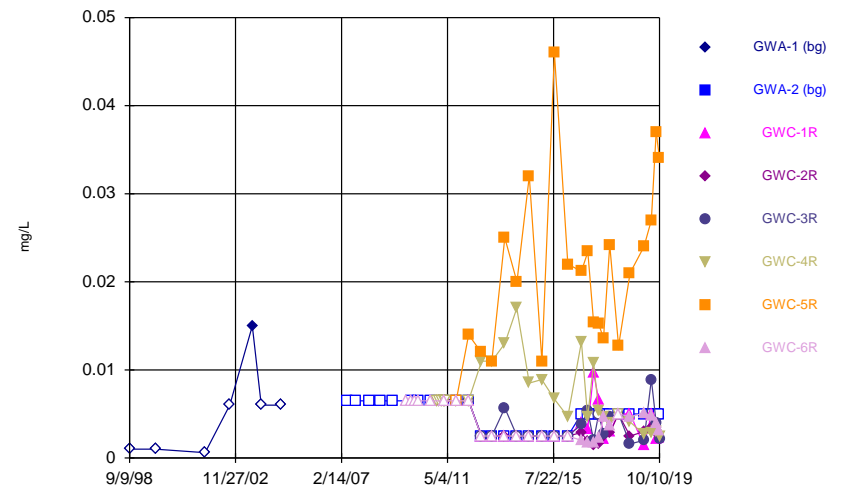
Constituent: Nickel Analysis Run 3/31/2020 11:24 AM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



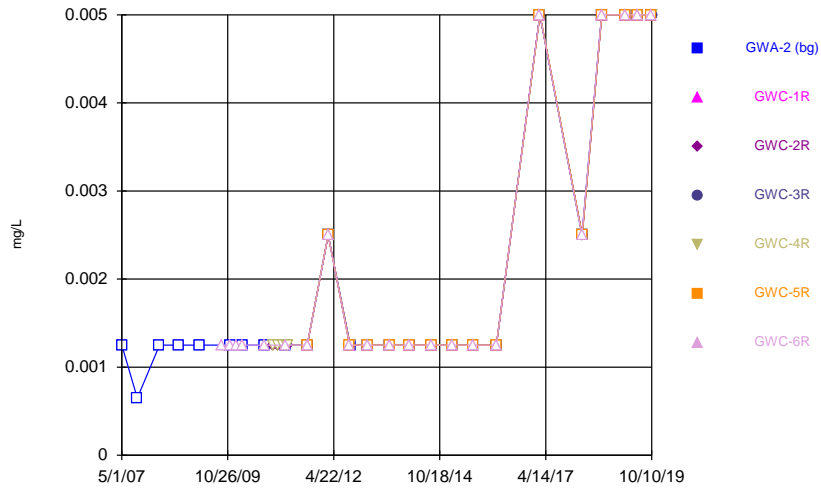
Constituent: pH Analysis Run 3/31/2020 11:24 AM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series

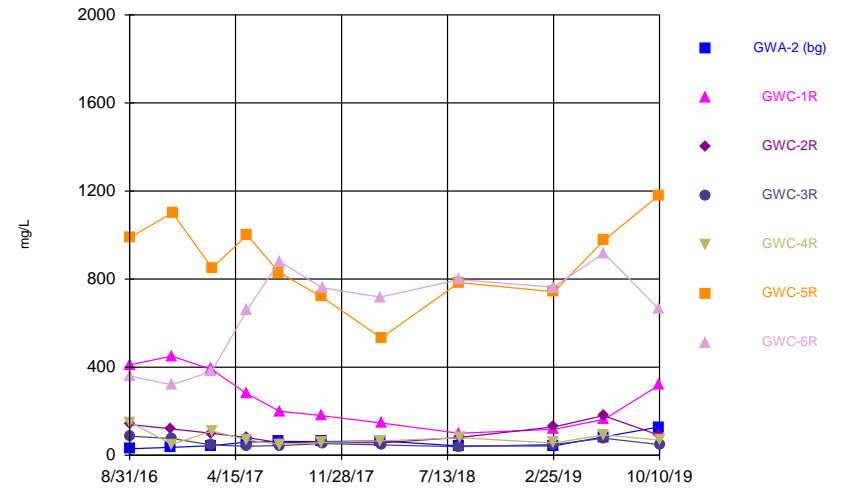


Constituent: Selenium Analysis Run 3/31/2020 11:24 AM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

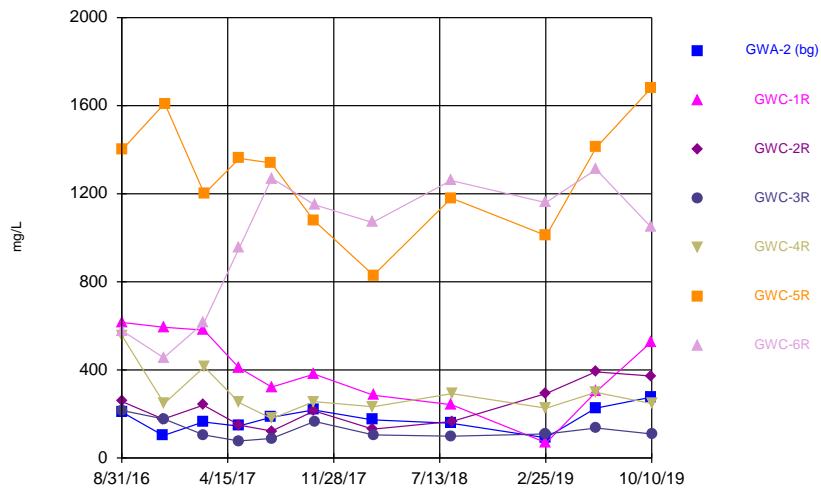
Time Series



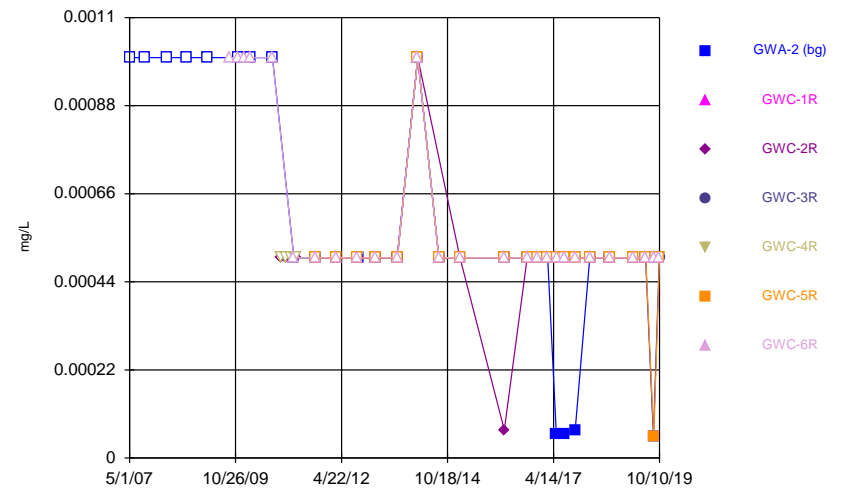
Time Series



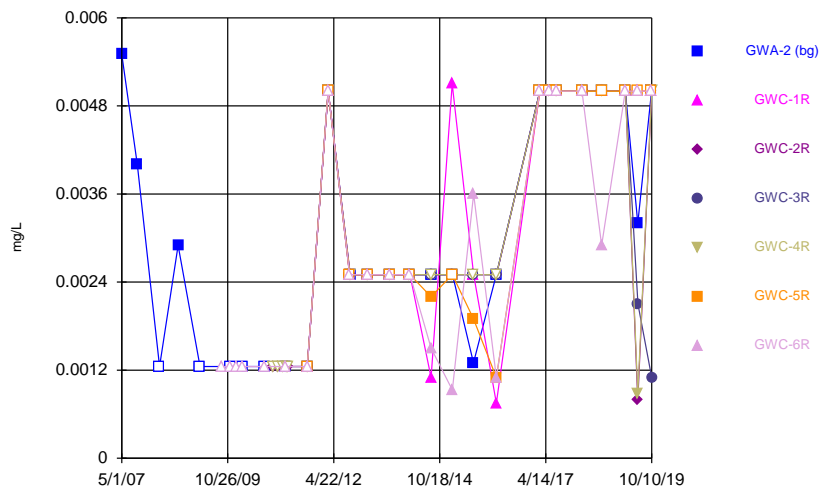
Time Series



Time Series

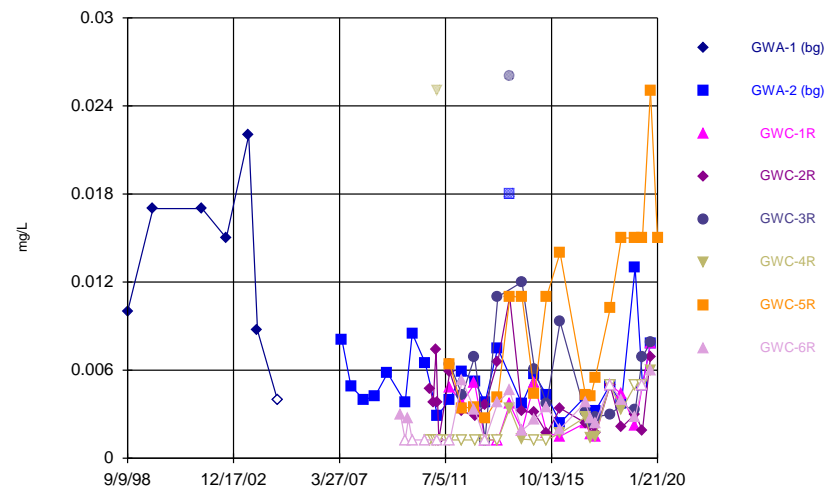


Time Series



Constituent: Vanadium Analysis Run 3/31/2020 11:25 AM View: Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

Time Series



Constituent: Zinc Analysis Run 3/31/2020 11:25 AM View: Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Gypsum Landfill

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A decorative graphic consisting of three thin orange lines. One is a horizontal line extending across the width of the page. Two others are diagonal lines starting from the bottom left and extending towards the top right, crossing the horizontal line.